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# ANNUAL REPORT

## COMMISSIONER OF PATENTS

FOR THE YEAR

1898.

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WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1899.







# REPORT

OF THE

## COMMISSIONER OF PATENTS

TO CONGRESS,

FOR THE YEAR ENDING DECEMBER 31, 1898.

[Laid before the Senate by the Vice-President February 6, 1899, referred to the Committee on Patents, and ordered to be printed.]

DEPARTMENT OF THE INTERIOR,  
UNITED STATES PATENT OFFICE,  
Washington, D. C., January 31, 1899.

To the Senate and House of Representatives of the  
United States of America in Congress assembled:  
In compliance with section 494 of the Revised  
Statutes I have the honor to submit the following  
report of the business of the Patent Office for the  
year ending December 31, 1898:

### RECEIPTS.

*Detailed statement of all moneys received for pat-  
ents, for copies of records or drawings, or from  
any source whatever.*

Applications:	
Cash received.....	\$998,998 00
Cash refunded.....	4,836 00
Net cash.....	994,162 00
Certificates of deposit.....	31,092 00
Total cash and certificates.....	1,025,254 00
Copies:	
Cash received.....	86,514 04
Cash refunded.....	6,728 26
Net cash.....	79,785 78
Certificates of deposit.....	220 59
Total cash and certificates.....	80,006 37
Recording assignments:	
Cash received.....	20,401 07
Cash refunded.....	1,079 66
Net cash.....	19,321 41
Certificates of deposit.....	98 60
Total cash and certificates.....	19,420 01
Subscriptions to Official Gazette:	
Cash received.....	11,012 58
Cash refunded.....	62 48
Net cash.....	10,950 10
Certificates of deposit.....	65 00
Total cash and certificates.....	11,015 10
Registration of prints and labels:	
Cash received.....	2,435 00
Cash refunded.....	408 00
Net cash.....	2,027 00
Certificates of deposit.....	12 00
Total cash and certificates.....	2,039 00

### Aggregates.

Cash received.....	\$1,119,360 69
Cash refunded.....	13,114 40
Net cash.....	1,106,246 29
Certificates of deposit.....	31,488 19
Total cash and certificates.....	1,137,734 48

### EXPENDITURES.

*Approximate amounts expended and incurred  
under the several appropriations from January  
1, 1898, to December 31, 1898.*

	Expended.	Estimated liabili- ties.	Total.
Salaries.....	\$720,294 65		\$720,294 65
Scientific library.....	2,150 39		2,150 39
Transportation of publi- cations to foreign coun- tries.....		(Not ac- cessible.)	
International Union for Protection of Industrial Property.....	650 36		650 36
Stationery.....	10,301 35		10,301 35
Postage on foreign matter.....	2,131 00		2,131 00
Furniture.....	4,318 52		4,318 52
Carpets.....	2,776 04		2,776 04
Ice.....	465 94		465 94
Telephones.....	120 00		120 00
Washing towels.....	89 12		89 12
Sundries.....	6,600 71		6,600 71
Official Gazette, (illustra- tions,) paid contractor.....	41,030 20		41,030 20
Photolithographing, paid contractor.....	74,169 77		74,169 77
Printing and Binding.			
Paid Public Printer, for Official Gazette, in- dexes, printing speci- fications, miscellaneous work.....	245,592 26	\$25,505 89	271,098 15
Total.....	1,110,690 31	25,505 89	1,136,196 20

### RECEIPTS AND EXPENDITURES.

Receipts from all sources.....	\$1,137,734 48
Expenditures.....	1,136,196 20
Surplus.....	1,538 28

*Statement of balance in the Treasury of the United  
States on account of the patent fund.*

Amount to the credit of the fund January 1, 1898.....	\$4,971,438 06
Amount of receipts during the year 1898.....	1,137,734 48
Total.....	6,109,172 54
Deduct expenditures for the year 1898.....	1,136,196 20
Balance January 1, 1899.....	4,972,976 34



## SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions.....	33,915
Number of applications for patents for designs .....	1,843
Number of applications for reissues of patents .....	84
Total number of applications .....	35,842
Number of caveats filed.....	1,659
Number of applications for registration of trade-marks.....	1,796
Number of applications for registration of labels .....	316
Number of applications for registration of prints .....	50
Number of disclaimers filed.....	9
Number of appeals on the merits.....	955
Total.....	4,785
Total number of applications, etc., requiring investigation and action .....	40,627

Number of patents issued, including designs.....	22,207
Number of patents reissued .....	60
Total.....	22,267
Number of trade-marks registered .....	1,238
Number of labels registered .....	200
Number of prints registered .....	35
Total.....	1,473
Number of patents expired during the year.....	15,548
Number of patents withheld for non-payment of final fees .....	4,368
Number of applications allowed awaiting final fees.....	6,824

## PATENTS ISSUED.

*Patents issued to citizens of the United States, with the ratio of population to each patent granted.*

States and Territories.	Patents and designs.	One to every—	States and Territories.	Patents and designs.	One to every—
Alabama.....	80	18,914	Nevada.....	5	9,152
Arizona Territory.....	19	3,137	New Hampshire.....	100	3,765
Arkansas.....	92	12,266	New Jersey.....	906	1,594
California.....	619	1,951	New Mexico Territory.....	11	13,961
Colorado.....	221	1,865	New York.....	3,285	1,825
Connecticut.....	799	933	North Carolina.....	71	22,787
Delaware.....	45	3,744	North Dakota.....	48	3,806
District of Columbia.....	136	1,694	Ohio.....	1,472	2,494
Florida.....	72	5,436	Oklahoma Territory.....	34	1,819
Georgia.....	106	17,333	Oregon.....	73	4,298
Hawaii.....	7	—	Pennsylvania.....	2,172	2,420
Idaho.....	15	5,625	Rhode Island.....	218	1,584
Illinois.....	1,741	2,197	South Carolina.....	48	23,982
Indian Territory.....	23	—	South Dakota.....	57	5,768
Indiana.....	621	3,530	Tennessee.....	155	11,401
Iowa.....	419	4,562	Texas.....	340	6,574
Kansas.....	263	5,426	Utah.....	47	2,295
Kentucky.....	203	9,153	Vermont.....	59	5,634
Louisiana.....	97	11,533	Virginia.....	177	9,355
Maine.....	118	5,602	Washington.....	134	2,607
Maryland.....	245	4,254	West Virginia.....	102	7,478
Massachusetts.....	1,567	1,428	Wisconsin.....	447	3,773
Michigan.....	642	3,261	Wyoming.....	23	2,616
Minnesota.....	336	3,874	United States Army.....	4	—
Mississippi.....	68	18,964	United States Navy.....	3	—
Missouri.....	683	3,922	Total.....	19,455	—
Montana.....	77	1,723			
Nebraska.....	150	7,059			

*Patents granted to citizens of foreign countries.*

Algeria.....	1	Italy.....	33
Argentine Republic.....	6	Jamaica.....	1
Austria-Hungary.....	75	Mexico.....	8
Belgium.....	47	Netherlands.....	17
Bermuda.....	2	New South Wales.....	29
Brazil.....	2	New Zealand.....	28
British Guiana.....	1	Norway.....	10
Burmah.....	1	Portugal.....	1
Canada.....	345	Queensland.....	3
Cape Colony.....	3	Russia.....	33
Chile.....	1	Scotland.....	64
Cuba.....	1	South African Republic.....	7
Denmark.....	18	South Australia.....	6
Egypt.....	1	Spain.....	6
England.....	964	Sweden.....	32
Finland.....	3	Switzerland.....	39
France.....	258	Tasmania.....	2
Germany.....	634	Turkey.....	1
Guatemala.....	1	Victoria.....	35
India.....	3	West Australia.....	1
Ireland.....	28	Total.....	2,752
Island of Tahiti.....	1		

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the Office during the last calendar year:

*Comparative statement of the business of the Office from 1837 to 1898, inclusive.*

Year.	Applica-tions.	Caveats filed.	Patents and re-issues.	Cash re-ceived.	Cash ex-pended.	Surplus.
1837.....	—	—	435	\$29,289 08	\$33,506 98	—
1838.....	—	—	520	42,123 54	37,338 92	\$4,784 62
1839.....	—	—	425	38,019 97	34,543 51	3,476 46
1840.....	765	228	473	38,056 51	39,020 67	—
1841.....	847	312	495	40,413 01	52,666 87	—



*Comparative statement of the business of the Office from 1837 to 1898, inclusive—Continued.*

Year.	Applica- tions.	Caveats filed.	Patents and re- issues.	Cash re- ceived.	Cash ex- pended.	Surplus.
1842	761	291	517	36,505 63	31,241 43	5,264 20
1843	819	315	519	35,315 81	30,776 96	4,538 85
1844	1,045	380	497	42,509 26	36,344 53	6,164 73
1845	1,246	452	503	51,076 14	39,395 65	11,680 49
1846	1,272	448	638	50,264 16	46,158 71	4,105 45
1847	1,531	533	569	63,111 19	41,878 35	21,232 84
1848	1,628	607	653	67,576 69	58,905 84	8,670 85
1849	1,955	595	1,077	80,752 78	77,716 44	3,036 34
1850	2,193	602	993	86,927 05	80,100 95	6,826 10
1851	2,258	760	872	95,738 61	86,916 93	8,821 68
1852	2,639	996	1,019	112,056 34	95,916 91	16,139 43
1853	2,673	901	961	121,527 45	132,869 83	-----
1854	3,324	868	1,844	163,789 84	167,146 32	-----
1855	4,435	906	2,013	216,459 35	179,540 33	36,919 02
1856	4,960	1,024	2,505	192,588 02	199,951 02	-----
1857	4,771	1,010	2,896	196,132 01	211,582 09	-----
1858	5,364	943	3,710	203,716 16	193,193 74	10,522 42
1859	6,225	1,079	4,538	245,942 15	210,278 41	35,663 74
1860	7,653	1,084	4,819	256,352 59	252,820 80	3,531 79
1861	4,643	700	3,340	137,354 44	221,491 91	-----
1862	5,038	824	3,521	215,754 99	182,810 39	32,944 06
1863	6,014	787	4,170	195,593 29	189,414 14	6,179 15
1864	6,972	1,063	5,020	240,919 98	229,868 00	11,051 98
1865	10,664	1,937	6,616	348,791 84	274,199 34	74,592 50
1866	15,269	2,723	9,450	495,665 38	361,724 28	133,941 10
1867	21,276	3,597	13,015	646,581 92	639,263 32	7,318 60
1868	20,445	3,705	13,378	681,565 86	628,679 77	52,886 09
1869	19,271	3,624	13,986	693,145 81	486,430 74	206,715 07
1870	19,171	3,273	13,321	669,456 76	557,147 19	112,309 57
1871	19,472	3,366	13,033	678,716 46	562,091 64	116,624 82
1872	18,246	3,090	13,590	699,726 39	665,595 00	34,131 39
1873	20,414	3,248	12,864	703,191 77	691,178 98	12,012 79
1874	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1875	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1876	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877	20,308	2,809	14,187	732,342 85	613,152 62	119,190 23
1878	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1879	20,059	2,620	13,213	703,931 47	529,638 97	174,292 50
1880	23,012	2,490	13,947	749,685 32	538,865 17	210,820 15
1881	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1882	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883	34,576	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1884	35,600	2,582	20,413	1,075,798 80	970,579 76	105,219 04
1885	35,717	2,552	24,233	1,188,089 15	1,024,378 85	163,710 30
1886	35,968	2,513	22,508	1,154,551 40	992,503 45	162,047 95
1887	35,613	2,622	21,477	1,144,509 60	994,472 22	150,037 38
1888	35,797	2,251	20,506	1,118,516 10	973,108 78	145,407 32
1889	40,575	2,481	24,158	1,281,728 05	1,052,955 96	228,772 09
1890	41,048	2,311	26,292	1,340,372 66	1,099,297 74	241,074 92
1891	40,552	2,408	23,244	1,271,285 78	1,139,713 35	131,572 43
1892	40,753	2,290	23,559	1,286,331 88	1,110,739 24	175,592 59
1893	38,473	2,247	23,769	1,242,871 64	1,141,038 45	101,833 19
1894	38,439	2,286	20,867	1,187,439 58	1,100,047 12	87,392 46
1895	40,680	2,415	22,057	1,245,246 93	1,106,389 49	138,857 44
1896	43,982	2,271	23,373	1,324,059 83	1,113,413 71	210,646 12
1897	47,905	2,176	23,794	1,375,641 72	1,122,843 13	252,798 59
1898	35,842	1,659	22,267	1,137,734 48	1,136,196 20	1,538 28

*Statement showing the number of the first patent, Design patent, and reissued patent, and the number of the first certificate of registration of a Trade-Mark and a Label issued in each calendar year since July 28, 1836, when the present series of numbers of Letters Patent commenced, together with the total number of each issued during the year.*

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certifi- cates.
1836 (July 28) -----	1						109							
1837 -----	110						436							
1838 -----	546		1				515		6					
1839 -----	1,061		7				404		13					
1840 -----	1,465		20				458		10					
1841 -----	1,923		30				490		6					
1842 -----	2,413		36				488		13					
1843 -----	2,901	1	49				494	14	11	519				
1844 -----	3,395	15	60				478	12	7	497				
1845 -----	3,873	27	67				475	17	11	503				
1846 -----	4,348	44	78				566	59	13	638				
1847 -----	4,914	103	91				495	60	14	569				
1848 -----	5,409	163	105				584	46	23	653				
1849 -----	5,993	209	128				988	49	30	1,067				



Statement showing the number of the first patent, Design patent, and reissued patent—Continued.

Year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certificates.
1850.....	6,981	258	158				884	83	26	993				
1851.....	7,865	341	184				757	90	25	872				
1852.....	8,622	431	209				890	109	20	1,019				
1853.....	9,512	540	229				846	86	29	961				
1854.....	10,358	626	258				1,759	57	28	1,844				
1855.....	12,117	683	286				1,892	70	51	2,013				
1856.....	14,009	753	337				2,315	107	83	2,505				
1857.....	16,324	860	420				2,686	113	97	2,896				
1858.....	19,010	973	517				3,467	102	126	3,695				
1859.....	22,477	1,075	643				4,165	108	231	4,504				
1860.....	26,642	1,183	874				4,363	183	232	4,778				
1861.....	31,005	1,366	1,106				3,040	142	147	3,329				
1862.....	34,045	1,508	1,253				3,221	195	116	3,532				
1863.....	37,266	1,703	1,369				3,781	176	227	4,184				
1864.....	41,047	1,879	1,596				4,638	139	248	5,025				
1865.....	45,685	2,018	1,844				6,099	221	296	6,616				
1866.....	51,784	2,239	2,140				8,874	294	290	9,458				
1867.....	60,658	2,533	2,430				12,301	325	400	13,026				
1868.....	72,959	2,858	2,830				12,544	446	420	13,410				
1869.....	85,503	3,304	3,250				12,957	506	534	13,997				
1870.....	98,460	3,810	3,784	1			12,157	737	439	13,333	121			121
1871.....	110,617	4,547	4,223	122			11,687	905	461	13,056	486			486
1872.....	122,304	5,452	4,687	608			12,200	884	521	13,613	491			491
1873.....	134,504	6,336	5,216	1,099			11,616	747	501	12,864	492			492
1874.....	146,120	7,083	5,717	1,591	1		12,230	886	483	13,599	559	232		791
1875.....	158,350	7,969	6,200	2,150	233		13,291	915	631	14,837	1,138	232		1,370
1876.....	171,641	8,884	6,831	3,288	465		14,172	802	621	15,595	959	472		1,431
1877.....	185,813	9,686	7,452	4,247	937		12,920	699	568	14,187	1,216	392		1,608
1878.....	198,733	10,385	8,020	5,463	1,329		12,345	590	509	13,444	1,455	492		1,947
1879.....	211,078	10,975	8,529	6,918	1,821		12,133	592	488	13,213	872	355		1,227
1880.....	223,211	11,567	9,017	7,790	2,176		12,926	515	506	13,947	349	203		552
1881.....	236,137	12,082	9,523	8,139	2,379		15,548	565	471	16,584	834	202		1,036
1882.....	251,685	12,647	9,994	8,973	2,581		18,135	861	271	19,267	947	304		1,251
1883.....	269,820	13,508	10,265	9,920	2,885		21,196	1,020	167	22,383	902	906		1,808
1884.....	291,016	14,528	10,432	10,822	3,791		19,147	1,150	116	20,413	1,021	513		1,534
1885.....	310,163	15,678	10,548	11,843	4,304		23,331	773	129	24,233	1,067	391		1,458
1886.....	333,494	16,451	10,677	12,910	4,695		21,797	595	116	22,508	1,029	378		1,407
1887.....	355,291	17,046	10,793	13,939	5,073		20,429	949	99	21,477	1,133	380		1,513
1888.....	375,720	17,995	10,892	15,072	5,453		19,585	835	86	20,506	1,059	327		1,386
1889.....	395,305	18,830	10,978	16,131	5,780		23,360	723	75	24,158	1,229	319		1,548
1890.....	418,665	19,553	11,053	17,360	6,099		25,322	886	84	26,292	1,415	304		1,719
1891.....	443,987	20,439	11,137	18,775	6,403		22,328	836	80	23,244	1,762	137		1,899
1892.....	466,315	21,275	11,217	20,537	6,540		22,661	817	81	23,559	1,737	*6		1,743
1893.....	488,976	22,092	11,298	22,274	None.		22,768	902	99	23,769	1,677	None.	2	1,679
1894.....	511,744	22,994	11,397	23,951	Do.	3	19,875	928	64	20,857	1,806	Do.	4	1,810
1895.....	531,619	23,922	11,461	25,757	Do.	7	20,883	1,115	59	22,057	1,829	Do.	3	1,832
1896.....	552,502	25,037	11,520	27,586	6,546	10	21,867	1,445	61	23,273	1,813	1	32	1,846
1897.....	574,369	26,482	11,581	29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16	1,701
1898.....	596,467	28,113	11,646	31,070	6,561	58	20,404	1,803	60	22,267	1,238	200	35	1,473

\*Registration of labels practically ceased May 27, 1891, under decision of the United States Supreme Court in *Higgins et al. v. Keuffel et al.* (55 O. G., 1139) with the registration of No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

Statement of prices paid for photolithographic work since 1884-85.

Year.	Contractor.	Patents issued.	Official Gazette.		Publishing expired patents.	Total Official Gazettes.
			Per page.	Number of copies.		
1884-85.....	Norris Peters.....	21,496	\$7 86	6,500		\$39,614 40
1885-86.....	do.....	24,134	7 45	6,500		44,351 00
1886-87.....	do.....	21,731	7 45	6,500		41,868 40
1887-88.....	do.....	20,653	7 45	6,500		41,183 60
1888-89.....	do.....	21,518	7 45	6,500		43,999 70
1889-90.....	do.....	25,857	7 45	6,500		58,992 40
1890-91.....	do.....	25,307	7 45	7,000		65,966 10
1891-92.....	Norris Peters Co.....	23,626	7 45	7,000		52,969 50
1892-93.....	do.....	23,468	7 45	7,000		54,998 30
1893-94.....	National Lithographic Co.....	22,546	6 30	7,000	\$4,999 70	49,997 70
1894-95.....	Norris Peters Co.....	20,745	5 25	7,000		38,297 88
1895-96.....	A. B. Graham.....	22,791	5 10	7,000		42,326 30
1896-97.....	Norris Peters Co.....	23,394	4 50	7,000		35,712 00
1897-98.....	do.....	22,731	5 10	7,000		39,749 40
1898-99.....	do.....	*22,500	5 60	7,000		*43,769 60

\*Estimated amounts for current year based upon business for first half of fiscal year 1898-99.

Statement of prices paid for photolithographic work since 1884-85—Continued.

Year.	Contractor.	Drawings of Letters Patent per sheet, current issues.			Other litho- graphic work. <i>a</i>	Total.
		Thin copies.	Thick copies.	Bond copies.		
			<i>Cents.</i>	<i>Cents.</i>		
1884-85	Norris Peters	\$0 01	3	3	\$78,671 99	\$118,286 39
1885-86	do	01	3	3	84,940 19	129,291 19
1886-87	do	01	3	3	79,509 57	121,377 97
1887-88	do	01	3	3	77,907 96	119,091 56
1888-89	do	01	3	3	83,284 54	127,284 24
1889-90	do	01	3	3	101,292 67	160,285 07
1890-91	do	01	3	3	110,998 97	176,965 07
1891-92	Norris Peters Co	b1 48	3	3	99,992 58	152,962 08
1892-93	do	b1 48	2	3	99,788 92	154,787 22
1893-94	National Lithographic Co	b1 46	3	3	94,911 33	144,909 03
1894-95	Norris Peters Co	b 95	2	2	60,482 04	98,779 92
1895-96	A. B. Graham	c 93 d 01	.0175	.0175	58,866 60	101,192 90
1896-97	Norris Peters Co	c 80	.015	.01	58,960 78	94,672 78
1897-98	do	c 84 d 015	.015	.02	68,999 28	108,748 68
1898-99	do	c 90 d 02	.02	.025	*71,976 24	* 115,745 84

*a* Blue-print work included from July 1, 1898. *b* For 102 copies. *c* For 100 copies. *d* Two proof copies each. \* Estimated amounts for current year based upon business for first half of fiscal year 1898-99.

Table showing the number of patents issued by the United States and foreign countries from the earliest period to December 31, 1898. (Foreign figures for 1898 estimated.)

Countries.	To 1870, inclu- sive.	1871 to 1898.	Total.	Countries	To 1870, inclu- sive.	1871 to 1898.	Total.
Austria*		17,257	17,257	Mauritius	113	214	327
Austria-Hungary*	15,350	67,583	82,933	Mexico	22	2,194	2,216
Bahamas		2	2	Netherlands	4,535		4,535
Barbadoes		106	106	Newfoundland	40	205	245
Belgium	35,044	111,728	146,772	New South Wales	236	7,840	8,076
Bolivia	42	65	107	New Zealand	109	6,022	6,131
Brazil	185	2,950	3,135	Norway	737	7,749	8,486
British Guiana	32	94	126	Portugal	245	2,467	2,712
British Honduras	1	19	20	Queensland	67	3,803	3,870
Canada	4,081	61,408	65,489	Russia	1,464	6,524	7,988
Ceylon	58	409	467	St. Helena		4	4
Chile	20	275	295	South African Republic		1,131	1,131
Denmark	464	8,862	9,326	South Australia †	123	4,471	4,594
Fiji Islands		22	22	Spain		20,621	20,621
Finland	112	758	870	Straits Settlements		78	78
France	103,934	193,232	297,166	Sweden	1,629	11,048	12,677
Germany	9,996	108,698	118,694	Switzerland		16,884	16,884
Great Britain	53,408	212,462	265,870	Tasmania	43	1,596	1,639
Guatemala		57	57	Trinidad	6	128	134
Hawaii		148	148	Tunis		229	229
Hong-Kong		53	53	Turkey		622	622
Hungary*		8,795	3,795	Venezuela		120	120
India	445	5,190	5,635	Victoria	822	8,760	9,582
Italy and Sardinia	4,723	42,247	46,970	Western Australia		1,617	1,617
Jamaica	22	127	149	Total foreign	238,108	953,642	1,191,750
Japan		3,272	3,272	United States	120,573	506,254	626,827
Leeward Islands		15	15	Grand total	358,681	1,459,896	1,818,577
Liberia		2	2				
Luxemburg		3,452	3,452				
Malta		27	27				

\*The joint patent law of Austria-Hungary came to an end on July 7, 1895, the date of the new Hungarian patent law, which was not put in operation till March 1, 1896.  
†Corrections made from reports for 1886-1897, inclusive, lately received.

SUMMARY OF TABLES.

In 1898 there were received 33,915 applications for patents, 1,843 applications for designs, 84 applications for reissues, 1,659 applications for registration of trade-marks, 316 applications for registration of labels, and 50 applications for prints. There were 22,207 patents granted, including designs, 60 patents reissued, 1,238 trade-marks registered, and 200 labels and 35 prints. The number of patents that expired was 15,548. The number of allowed applications awaiting the payment of final fees was 6,824. The

number that were forfeited for non-payment of the final fees was 4,363. The total expenditures were \$1,136,196.20. The receipts over expenditures were \$1,538.28. The total balance to the credit of the Patent Office in the Treasury of the United States on January 1, 1899, was \$4,972,976.34.  
In proportion to population more patents were issued to citizens of Connecticut than to those of any other State—1 to every 933 inhabitants. Next in order are the following: Massachusetts, 1 to every 1,428; Rhode Island, 1 to every 1,584; New Jersey, 1 to every 1,594; District of Columbia, 1 to every



1,694; Montana, 1 to every 1,723; Oklahoma, 1 to every 1,819; New York, 1 to every 1,825; Colorado, 1 to every 1,865; California, 1 to every 1,951. The fewest patents granted in proportion to the number of inhabitants were in the following States: South Carolina, 1 to every 23,982; North Carolina, 1 to every 22,787; Mississippi, 1 to every 18,964; Alabama, 1 to every 18,914; and Georgia, 1 to every 17,333.

As to foreign countries, 964 patents were granted to residents of England; 634 to those of Germany; 345 to those of Canada; France, 258; Austria-Hungary, 75; Scotland, 64; Belgium, 47; Switzerland, 39; Victoria, 35; Italy and Russia, 33 each; Sweden, 32; New South Wales, 29; Ireland and New Zealand, 28 each; Denmark, 18; Netherlands, 17; Norway, 10; Mexico, 8; South African Republic, 7; Argentine Republic, South Australia, and Spain, 6 each; Cape Colony, Finland, India, and Queensland, 3 each; Brazil, Bermuda, and Tasmania, 2 each; and to Algeria, British Guiana, Burmah, Chile, Cuba, Egypt, Guatemala, Island of Tahiti, Jamaica, Portugal, Turkey, and West Australia, 1 each.

#### THE WORK OF THE OFFICE.

In entering upon the duties of this Office on February 5, 1898, I found that the work of the Office was largely in arrears. For years my predecessors had forcibly urged an increase in the number of Examiners and a slight increase in the clerical force. Realizing the absolute necessity for such increase, your immediate and favorable action was earnestly requested. Impressed with the justice of the plea of the inventors and manufacturers for a more prompt service, you gave the increase of force asked for, with the result that for the first time for at least ten years it is unnecessary for a Commissioner of Patents in his Annual Report to plead for an additional force.

The result has justified your action and my predictions. On December 28, 1897, 11,382 applications were awaiting action, and by March 15, 1898, the number of such applications had increased to 14,842. On December 27, 1898, the number of such applications had been reduced 5,915 from the number awaiting action December 28, 1897, and 9,375 from the number awaiting action March 15, 1898, so that only 5,467 applications were then awaiting action. Of this number only 2,999 were applications which had not received any action, as against 7,858 applications awaiting their first action on December 28, 1897, and 10,720 such applications awaiting action on March 15, 1898.

Many of the examining divisions on December 28, 1897, were from four to six months in arrears, while on December 27, 1898, only one division was in arrears over six weeks, and that division has since come within the six weeks limit, while all amended cases are taken up for action within fifteen days after amendments are filed. The condition of the examining work of the Office on the respective dates—December 28, 1897, and December 27, 1898—is best shown by the weekly reports of those dates:

*December 28, 1897.*

Division.	Applications on hand for action.					Arrears in months.
	New.	Old.	Total.	Oldest applica- tion.		
				New.	Amended.	
XIV	89	87	176	Nov. 22	Dec. 13	Bet. 1 and 2.
XVI	150	80	230	Nov. 6	Dec. 8	Do.
III	89	93	182	Nov. 12	Dec. 7	Do.
XXV	215	175	390	Nov. 1	Nov. 16	Do.
X	231	44	275	Oct. 3	Dec. 18	Bet. 2 and 3.
XIX	256	65	321	Sept. 29	Dec. 15	Do.
XX	127	102	229	Oct. 22	Dec. 14	Do.
II	248	130	378	Oct. 16	Dec. 13	Do.
IX	134	41	175	Sept. 28	Dec. 13	Do.
XII	149	48	197	Oct. 27	Dec. 10	Do.
XXXIV	129	102	231	Oct. 25	Dec. 10	Do.
IV	304	96	400	Sept. 29	Dec. 10	Do.
XXI	184	76	260	Sept. 28	Dec. 9	Do.
V	172	80	252	Oct. 13	Dec. 6	Do.
VI	300	103	403	Oct. 25	Dec. 4	Do.
XIII	165	44	209	Oct. 4	Dec. 1	Do.
VIII	261	189	450	Oct. 27	Nov. 29	Do.
XXII	160	126	286	Oct. 6	Nov. 15	Do.
XVII	146	93	239	Oct. 4	Nov. 11	Do.
XV	293	35	328	Sept. 4	Dec. 16	Bet. 3 and 4.
XVIII	290	44	334	Sept. 13	Dec. 6	Do.
XXIV	130	108	238	Sept. 11	Nov. 18	Do.
XXVII	180	132	312	Sept. 20	Nov. 15	Do.
VII	627	456	1,083	Sept. 9	Nov. 15	Do.
XXXI	380	263	643	Sept. 14	Nov. 9	Do.
I	163	111	274	Sept. 14	Nov. 3	Do.
XXVIII	417	58	475	July 29	Dec. 18	Bet. 4 and 5.
XXIX	148	32	180	Aug. 26	Dec. 16	Do.
XI	466	124	590	Aug. 24	Dec. 11	Do.
XXXII	536	103	639	June 30	Dec. 16	Bet. 5 and 6.
XXIII	301	112	413	July 12	Aug. 26	Do.
XXVI	156	33	189	June 25	Dec. 3	Bet. 6 and 7.
XXX	262	139	401	June 21	Aug. 13	Do.
	7,858	3,524	11,382			

*December 27, 1898.*

Division.	Applications on hand for action.					Arrears in months.
	New.	Old.	Total.	Oldest applica- tion.		
				New.	Amended.	
XXXXIII	4	23	27	Dec. 17	Dec. 19	Under 1.
XV	70	47	117	Nov. 28	Dec. 13	Do.
XXV	59	41	100	Nov. 22	Dec. 16	Bet. 1 and 2.
X	94	40	134	Nov. 22	Dec. 15	Do.
VIII	109	97	206	Nov. 21	Dec. 19	Do.
XIX	91	64	155	Nov. 21	Dec. 17	Do.
II	103	158	261	Nov. 21	Dec. 14	Do.
XXXV	95	145	240	Nov. 21	Nov. 25	Do.
I	77	56	133	Nov. 19	Dec. 19	Do.
XXXIV	97	45	142	Nov. 19	Dec. 14	Do.
XXIX	59	43	102	Nov. 19	Dec. 14	Do.
XXVIII	63	59	122	Nov. 19	Dec. 12	Do.
XXVII	58	41	99	Nov. 18	Dec. 14	Do.
XIII	57	55	112	Nov. 18	Dec. 13	Do.
XVII	77	78	155	Nov. 18	Dec. 13	Do.
XVI	61	61	122	Nov. 18	Dec. 13	Do.
XXIV	71	58	129	Nov. 18	Dec. 7	Do.
XIV	96	39	135	Nov. 17	Dec. 15	Do.
VI	139	104	243	Nov. 17	Dec. 14	Do.
XXXII	115	54	169	Nov. 16	Dec. 13	Do.
V	101	90	191	Nov. 16	Dec. 12	Do.
XXIII	51	64	115	Nov. 16	Dec. 12	Do.
XII	87	43	130	Nov. 16	Dec. 10	Do.
XXX	89	62	151	Nov. 15	Dec. 13	Do.
XXI	71	83	154	Nov. 15	Dec. 13	Do.
IV	117	96	213	Nov. 15	Dec. 12	Do.
XX	65	68	133	Nov. 15	Dec. 12	Do.
XXXI	96	81	177	Nov. 15	Dec. 6	Do.
VII	107	39	146	Nov. 14	Dec. 14	Do.
III	88	60	148	Nov. 14	Dec. 13	Do.
IX	64	66	130	Nov. 14	Dec. 13	Do.
XVIII	88	49	137	Nov. 14	Dec. 12	Do.
XXVI	81	43	124	Nov. 14	Dec. 12	Do.
XXXVI	50	52	102	Nov. 12	Dec. 10	Do.
XI	85	199	284	Nov. 2	Nov. 10	Do.
XXII	164	65	229	Sept. 21	Dec. 6	Bet. 3 and 4.
	2,999	2,468	5,467			



THE EFFECT OF THE WAR UPON THE BUSINESS OF THE OFFICE.

It is but fair to state that one of the elements contributing to the reduction of the number of applications awaiting action at the close of the year was the falling off in the number of applications received during the last nine months of the year. This was owing largely to the war. The rank and file of our army was largely made up from the ranks from which, to a large extent, our inventors come. An examination of the records of the Office shows that the civil war brought about a similar very large reduction in the number of applications filed during that period. In 1860, 7,653 applications were filed, while in 1861 the number fell off about forty per cent., being only 4,643. It was not until in 1865 that the number of applications filed rose to and passed the figures of 1860. While the reduction in the number of new applications received during the past year has been a factor in bringing up the work of the Office, the fact must not be lost sight of that the increase in force was not available until in July, and that while no better equipped force of young men has entered the service of the Patent Office than the twenty-eight additional examiners who were added to the force last July, yet necessarily being new to the work, their efficiency for the first six months was much less than it will be from now on. That this is so is shown by the fact that at the time of presenting this report over one-third of the examining divisions are engaged in examining new cases filed less than one month ago. I cannot speak too highly of the interest taken by the examining corps in bringing up the arrears of work. When required, the examiners have cheerfully worked until five o'clock, and often later. There is not a more enthusiastic or loyal force in the employment of any branch of the Government service than is to be found in this Office.

The salaries paid to members of the examining corps are inadequate, and this is shown by the fact that every year more and more of the most efficient examiners resign.

The work of the clerical divisions is well in hand.

Assignments are recorded within fifteen days from their receipt ; copies of official records are furnished with promptness, and printed copies of specifications and drawings of patents, while, for reasons hereafter stated, are not furnished as promptly as should be, yet the delay is much less than before the addition to the number of our messenger-boys was granted.

THE CLASSIFICATION DIVISION.

For a number of years my predecessors urged an increase of force in order to establish a classification division. Such a division was authorized by the act of June 10, 1898. Preliminary to the establishing of the division reports were called for from the members of the examining corps, and their experience enabled them to make valuable and practical suggestions, which so far as possible will be utilized. The division has been established and placed in charge of a chief, to whom has been assigned a sufficient force to commence to revise and perfect a classification of all Letters Patents and printed publications in the United States Patent Office, which constitute the field of search in the examination as to novelty of the inventions for which applications for patents may be filed, and that force will be increased as rapidly as the best interests of the work in hand demand. The necessity for this work is manifest. It is a work of great magnitude, for the field of search is enormous ; over 620,000 United States patents have been issued, while the issue of foreign patents is approximately 1,200,000. Of this latter, as shown by the accompanying table, about twenty per cent. is not available for the use of the work in examination, for the reason that we are only furnished with the titles of that per cent. of the patents. However, sixty-one per cent. of the foreign patents referred to in the table are fully available for examination, being published in full, and with the exception of Finland and Portugal are accompanied by drawings. Sixteen and one-half per cent. are partially available for examination, being published in abstracts.

Table showing the number of patents reported to the Scientific Library as issued by foreign countries from the earliest period to December 31, 1898.

Countries.	Total issue.	Record in library.			
		Number only.	Copies.		
			Full.	Abstract.	Title. Total.
Austria (a)	17,257				17,257
Austria-Hungary (a)	82,933				82,933
Bahamas	2	2			
Barbadoes	106				106
Belgium	146,772			125,509	21,263 146,772
Bolivia	107	107			
Brazil	3,135	3,135			
British Guiana	126	126			
British Honduras	20				20
Canada	65,489			65,489	65,489
Ceylon	467	302			165
Chile	295	295			
Denmark	9,326	2,002	1,975		5,349 7,324
Fiji Islands	22				22



Table showing the number of patents reported to the Scientific Library, &c.—Continued.

Countries.	Total issue.	Record in library.			
		Number only.	Copies.		
			Full.	Abstract.	Title. Total.
Finland	870		330		540 870
France	297,166		247,758		49,408 297,166
Germany	118,694	17,004	101,690		101,690
Great Britain	265,870		265,870		265,870
Guatemala	57	57			
Hawaii	143				148 148
Hong Kong	53				53 53
Hungary (a)	8,795	1,207	7,588		7,588
India	5,635	2,510			3,125 3,125
Italy and Sardinia	46,970		46,970		46,970
Jamaica	149				149 149
Japan	3,272		3,272		3,272
Leeward Islands	15				15 15
Liberia	2	2			
Luxemburg	3,452				3,452 3,452
Malta	27				27 27
Mauritius	327	165			162 162
Mexico	2,216				2,216 2,216
Netherlands	4,535	4,535			
Newfoundland	245				245 245
New South Wales	8,076			5,608	2,468 8,076
New Zealand	6,131		363		5,768 6,131
Norway	8,486	984	7,502		7,502
Portugal	2,712	1,950	762		762
Queensland	3,870		570		3,300 3,870
Russia	7,988	1,247	6,741		6,741
St. Helena	4	4			
South African Republic	1,131				1,131 1,131
South Australia (b)	4,594	3,669	925		925
Spain	20,621	4,878			15,743 15,743
Straits Settlements	78				78 78
Sweden	12,677	3,200	9,477		9,477
Switzerland	16,884		16,884		16,884
Tasmania	1,639	1,021			618 618
Trinidad	134				134 134
Tunis	229	229			
Turkey	662	662			
Venezuela	120	120			
Victoria	9,582	2,449	5,094		2,039 7,133
Western Australia	1,617				1,617 1,617
Total	1,191,750	51,822	723,771	196,606	219,551 1,139,928

a and b. For notes to which these letters refer see table by periods.

The number of technical journals and scientific publications relating to the industrial arts from which searches, if they are to be complete, must be made is very large. As long as a preliminary search for novelty is to be made it is of vital importance that it should be thorough, but without a complete classification of the prior art as illustrated in patents and scientific publications it cannot be complete. In the annual report for the calendar year 1899 this Office will be able to submit in detail the system of classification adopted. As yet the work has not progressed far enough to enable us to determine the details of the best system to be adopted, in view of the force available for the work.

THE NEEDS OF THE PATENT OFFICE.

The most pressing need of this Office at the present time is for additional room. It is expected that in a few months some additional room will be placed at our disposal, but I seriously question whether such room as may become available and be assigned to the Patent Office will be adequate for the needs of the Office. Room sufficient for the use of the examining divisions may be provided, but as our records are rapidly accumulating, especially the printed copies of patents, it is manifest that it will require the entire Patent Office building, if sufficient and convenient room be had

for the use of the examining and clerical divisions and for the convenient and safe arrangement of our records.

At the present time the cost of furnishing printed copies of the specifications and drawings of patents is double what it would be were these copies conveniently and accessibly arranged, and without such arrangement the delay incident to furnishing these copies, by reason of their being scattered throughout all parts of the building, will continue. These copies should be furnished with the same promptness as a yard of cloth may be had at a store. The price charged for them is at least equal to their cost to us, and the purchaser is entitled to prompt service, which in many cases is of the utmost importance. Were room provided for the convenient and accessible storage of these copies a force smaller than that now employed would be sufficient to promptly fill all orders. The Patent Office is patiently waiting for the promised relief, and it is hoped that when the relief comes it will be found adequate, and that future reports will not reiterate oft-repeated demands for sufficient room to enable this Office to properly discharge its varied functions.

STENOGRAPHERS AND TYPE-WRITERS.

The next most urgent need is for skilled stenographers and type-writers. In numbers the clerical



force of this Office is about sufficient at the present time to perform the work required; but the trouble is that many of the clerks entered the service before stenography and type-writing became a necessity. For example, assignments have been recorded in longhand in this Office for years. Within the past few months experiments have been made with book type-writing machines which satisfactorily demonstrate that with these machines and skilled operators not only a smaller force can do all the work of recording and in a much more satisfactory manner, but what is also of moment in the crowded condition of the Office a saving of space required for the storage of the record-books of about forty per cent. could be made. Furthermore, every examining division should have at least one skilled stenographer and type-writer, and all copies of Office records should be type-written. Notwithstanding the technical nature of a large part of the work required of stenographers and type-writers in this Office, Commissioners have tried in vain to induce Congress to pay our copyists the same salaries paid in other departmental offices. Many of our copyists receive only \$720 for the same service for which copyists in other departmental offices receive \$900. The expected results from this: After a few months' service in our Office many of our best stenographers and type-writers are enabled to secure transfers to offices where the smallest salary paid to copyists is \$900. The position of training-school is not enviable, and it is not just to this Office to so adjust salaries that that result must necessarily follow.

#### SCIENTIFIC LIBRARY.

The value of this library has been repeatedly and forcibly set forth by my predecessors. The annual appropriation for this library has for years been inadequate. I have submitted a proposition to Congress which if favorably acted upon will materially strengthen the condition of the library without requiring any additional expenditure of money. Authority has been asked to dispose of such works in the library as are not necessary for the work of the office, with permission to use the avails thereof in the purchase of modern works. It is hoped that this authority will be granted.

#### ALPHABETICAL LIST OF PATENTS FROM 1790 TO 1873.

For several years this Office has contemplated publishing a general index or alphabetical list of patentees from 1790 to 1873 as a companion to the Subject-Matter Index of Patents for Inventions from 1790 to 1873, hitherto published, and which, with the annual indexes published since the latter date, will complete the alphabetical list of all persons who have obtained patents since the foundation of the Government. Most of the matter necessary for the production of this work has been prepared and is ready for the printer. There is an urgent demand for the work, and if the index could be printed by contract the money received would pay the cost of printing it, but when we are compelled to have this work done by the Government

Printing Office the estimate of cost is so great that I cannot in justice to the Patent Office bring myself to the point of asking an appropriation for the purpose. The estimate of the Government Printing Office for doing this work is over \$32,000, while the estimates furnished by responsible parties show that by contract this work could be done for about one-half of that sum. I ask authority to have this work done by contract. In this connection I desire to call attention to the fact that this office annually pays to the Government Printing Office between \$250,000 and \$300,000 for printing and binding. This work could be done by contract for a sum not exceeding \$200,000, and I cannot but feel that this saving ought to be made. The printing and binding for this office should be done by contract in Union offices.

#### DESIRED LEGISLATION.

The following amendments to the patent and trade-mark laws are recommended:

1. An amendment providing for the appointment of Commissioner and Assistant Commissioner of Patents for a stated term, which should not be less than six years.

The duties they are called upon to perform are largely judicial in character. The Supreme Court of the United States in the recent case of *United States, ex rel. Alfred L. Bernardin, v. Charles H. Duell, Commissioner of Patents*, said:

Now, in deciding whether a patent shall issue or not, the Commissioner acts on evidence, finds the facts, applies the law, and decides questions affecting not only public but private interests; and so as to reissue, or extension, or on interference between contesting claimants; and in all this he exercises judicial functions.

A definite term will give a stability to the Office practice which is sadly needed. Since 1870 there have been fourteen Commissioners, or, in other words, a new Commissioner about every two years.

2. An amendment to limit the life of all patents so that they shall expire not later than twenty years after the applications for the same are filed.

At the present time it is possible to keep applications alive for an indefinite number of years. That this practice does not promote the progress of invention is self-evident.

3. An amendment permitting aliens to file caveats.

By so doing we may hope to receive certain important concessions from some foreign countries.

4. An amendment providing for the publication of 3,000 copies of the OFFICIAL GAZETTE of the Patent Office to be apportioned among Senators and Representatives in Congress, by them to be distributed among manufacturers and mechanics.

At the present time 7,000 copies of the OFFICIAL GAZETTE are printed, and it is believed that 3,000 additional copies can be furnished for a sum very little in excess of that now paid for the 7,000 copies.

5. A statute to provide for the registration of trade-marks used in interstate commerce.

I am informed that the commission appointed by the President on July 7 last, under the act approved June 4, 1898, "to revise the statutes relating to patents, trade and other marks, and trade and commercial names," which consists of Judge Peter



S. Grosseup, Hon. A. P. Greeley, and Mr. Francis Forbes, will in connection with their report to your honorable bodies submit a proposed trade-mark law which will provide for the registration of trade-marks used in interstate commerce. I cannot commend that feature too strongly and trust that the act when introduced will receive immediate and favorable action.

6. An amendment providing a fee of five dollars for petitions in interlocutory proceedings to the Commissioner of Patents.

Other amendments will hereafter be suggested; but in view of the lateness of the session no good purpose would be subserved by extending this report, and therefore they are omitted.

THE REASONABLE REQUESTS OF INVENTORS AND MANUFACTURERS SHOULD BE HEEDED.

When it is remembered that this Office is more than self-sustaining and that American inventive genius has cheapened the cost of production to the advantage of American wages, it seems as though the legislative branch of the government has done very little to encourage the useful arts and the inventors of the country. At the present time, when our manufacturers are reaching out for foreign markets, I believe no greater aid can be given them than by fostering and stimulating invention. The United States can only become dominant in the markets of the world through labor-saving inventions which will enable it to compete with the lower wages paid to the so-called working classes in other countries. The greatest development in American exports must be in the direction of increase in the export of manufactures. I assert, without fear of successful contradiction, that we mainly owe to our patent system such foothold as we have gained during the past fifty years in foreign lands for our manufactured products. We can, by a fair and liberal treatment of our inventors, control for our manufacturers not only our home markets but the markets of the world. In the words of a recognized authority, "In labor-saving machinery and in the intelligence of the labor employed, the United States to-day is in advance of the world." Most labor-saving machinery perfected within the last seventy-five years is the invention of our own people. The reaping-machine, which from 1861 to

1865 did the work of more than a million men working with hand implements, is of American origin. The same is true of the modern plow and its added improvements, of the corn-planter, and the threshing and separator machines. In the textile industry the American record surpasses that of all other countries. Wool-carding machinery owes its chief improvement to the invention of John Goulding, whose patent was issued in 1826, which dispensed with the splicing-billy, and produced the endless roll or sliver. The Crompton loom for weaving fancy woollens and the Bigelow loom for weaving carpets are of American invention. It is not alone by fundamental inventions that our inventors have revolutionized in so many respects the textile industry. Not the less have their inventions in automatic devices, in expediting processes, and in many steps dispensing with hand-labor assisted in placing this country in the front ranks in the textile art. Another marked illustration is found in the steel industry, where the reduction in manual labor has enabled our manufacturers to successfully compete with foreign nations. American electrical appliances command the world's markets. This subject is somewhat trite, and I have only referred to a few well-known historic facts for the purpose of emphasizing the advantages that will certainly flow from recognizing the just claims of our inventors. Let us not forget that it is the American inventors who by their inventions and discoveries "have made the last fifty years of the nineteenth century the most remarkable of recorded time" and at the same time have laid the civilized world under tribute to American manufactures.

In return for all this our inventors only ask a fair field and fair treatment. They only ask that the money paid into the Treasury by them shall be used, so far as necessary, for the purpose of providing necessary facilities for prompt and intelligent action upon their applications for patents for their inventions. They ask no subsidies. They give more than they take. An enlightened public sentiment demands that their requests should be considered with favor by the Congress of the United States.

Respectfully submitted,

CHARLES H. DUELL,  
*Commissioner.*



# ALPHABETICAL LIST

## OF

# PATENTEES FOR THE YEAR 1898.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
A. B. Dick Company. (See Dick, Albert B., assignor.)						
A. B. Farquhar Company. (See Eisenhart, Henry W., assignor.)						
A. B. Hendryx Company. (See Hendryx, Andrew B., assignor.)						
A. Featherstone & Company. (See Binns, William H., assignor.)						
A. G. Spalding & Brothers. (See Robinson, James E., assignor.)						
A. I. Root Company. (See Weed, Edward B., assignor.)						
A. L. Moore Company. (See White, Rollin H., assignor.)						
A. M. Collins Manufacturing Company. (See Odgers, Albert M., assignor.)						
A. R. Milner Seating Company. (See Milner, Albert R., assignor.)						
A. W. Stevens & Son. (See Stevens and Swart, assignors.)						
A. W. Stevens & Son. (See Swart, Lester D., assignor.)						
Aab, Wilhelm, New Ulm, Minn. Rotary engine	598,619	Feb. 8	942	226	82	800
Aab, Wilhelm, New Ulm, Minn. Tire	605,986	June 21	1756	403	83	1723
Aab, Wilhelm, New Ulm, Minn. Clothes-wringer	610,882	Sept. 20	1337	306	84	1735
Aaron, Frank, and J. R. G. Huffman, Lansing, Kans. Wrench	603,494	May 3	467	103	83	690
Abbee, Leslie H., S. A. Sewall, and A. J. Bennwitz, Denver, Colo. Stopper or closure	608,502	Aug. 2	590	132	84	772
Abbey, Orra E., Dailey, assignor to A. M. Todd, Kalamazoo, Mich. Mint-harvester	602,292	Apr. 12	1229	270	83	246
Abbott, Daniel, San José, Cal. Feathering paddle-wheel	611,007	Sept. 20	1554	358	84	1776
Abbott, Henry W., Chicago, Ill., assignor of one-half to W. L. Reed, Stockton, Cal. Refrigerating apparatus	607,321	July 12	1286	274	84	265
Abbott, Orris C. (See Whitman and Abbott.)						
Abbott, Thomas B., Sale, Victoria. Handle for kerosene-tins or the like	610,425	Sept. 6	536	118	84	1541
Abbott, William O., assignor of two-thirds to C. J. Coon, Buffalo, N. Y., and W. R. Zulich, Cincinnati, Ohio. Car-signal	607,561	July 19	1904	393 394	84	406
Abeel, George H., St. Louis, Mo. Hand lasting-machine	605,770	June 14	1288	299	83	1618
Abel, Emma L., Newport, Ky. Ornamental top for cooking-stoves	601,311	Mar. 29	3032	682	82	1876
Abel, Karl, Berlin, Germany. Table	609,765	Aug. 30	2955	691	84	1289
Abeling, Otto. (See Sutherland, James A., assignor.)						
Abell, John D., Tallapoosa, Ga. Budding-clasp	603,807	May 10	1023	228	83	816
Abell, Rollin, Boston, Mass. Drive-chain	614,922	Nov. 29	3046	698	85	1267
Abelson, Abraham, New York, N. Y. Coin-controlled apparatus for dispensing liquids in sprays	612,654	Oct. 18	1890	447	85	386
Abendroth, George I., New York, and G. Sickels, Brooklyn, N. Y. Machine for applying postage-stamps to mail-matter	597,093	Jan. 11	1126	266	82	235
Abercrombie, Stillman, Mittineague, Mass. Ash-sifter	613,002	Oct. 25	2505	597	85	525
Abernathy, Elizabeth. (See Favell, Sophie E., assignor.)						
Abernathy, Henry J., Socorro, N. Mex. Ter. Vise	611,091	Sept. 20	1711	393	84	1806
Abernathy, Henry J., Socorro, N. Mex. Ter. Umbrella-support for bicycles	611,190	Sept. 20	1884	435	84	1839
Abernethy, Harry M., assignor of one-half to H. H. Fulton, Elmira, N. Y. Railway-signal	600,054	Mar. 1	788	180	82	1368
Abernethy, Harry M., Elmira, N. Y., assignor to Eclipse Switch and Signal Company, Camden, N. J. Grade-crossing signal for railways	613,549	Nov. 1	596	137	85	729
Aboville, Augustin A. M. E. d', Cherbourg, France. Water-tube boiler	616,565	Dec. 27	2517	582 583	85	1956
Abraham, George S., Pittsburg, Pa. Silk-holder	611,227	Sept. 27	1980	457	84	1877
Abraham, Otto, Platkow, Germany. Steam-engine	602,418	Apr. 19	1435	324	83	303
Abrahamson, Emil. (See Nylander, Eric B., assignor.)						
Abrams, Lovina J., et al. (See Thurber, Charles F., assignor.)						
Abrams, William M., Jr., et al. (See Thurber, Charles F., assignor.)						
Abramson, Abe, Baton Rouge, La. Cotton chopper and cultivator	616,388	Dec. 20	2180	509	85	1870
Abrell, Charles F. (See McNair, Robert H. and W. A., assignors.)						
Abromeit, Carl, Elizabeth, N. J. Clothes-line support	597,534	Jan. 18	1858	431	82	395
Abt, Mathew, New York, N. Y. Lubricator for elevator-guides	597,251	Jan. 11	1876	321	82	283
Abt, Mathew, New York, N. Y. Valve	604,595	May 24	2526	575	83	1155
Acetylene Apparatus Manufacturing Company. (See Clarke, William C., assignor.)						
Acetylene Apparatus Manufacturing Company. (See Griffen, Arthur B., assignor.)						
Acetylene House Lighting Company. (See Dolan, Edward J., assignor.)						
Achard, Anton W., Saginaw, Mich. Water-heater	603,867	May 10	1142	257	83	838
Acheson, Edward G., Buffalo, N. Y. Article of carborundum and manufacture thereof	615,648	Dec. 6	796	-----	85	1570
Achorn, Edgar O., et al. (See Guest, John H., assignor.)						
Acker, Frederick H., assignor of one-half to M. C. Mott, South Haven, Mich. Combined flour-bin and dough-raiser	612,183	Oct. 11	1044	250 251	85	214
Acker, Julius, J. McCoskry, and A. Molis, Muscatine, Iowa. Curtain-operator	600,940	Mar. 22	2362	536	82	1721
Ackerman, C. W. (See Pjerrou, John F., assignor.)						
Ackerman, Feike H., Shedd's, Oreg. Grain-feeder and band-cutter for threshing-machines	597,252	Jan. 11	1377	321	82	283
Ackerman, George E., et al. (See De Tamble, Henry, assignor.)						
Ackerman, Michael, Howard, S. D. Fly-brush for screen-doors	607,206	July 12	1064	230	84	222
Ackerman, Otto W., New York, N. Y. Apparatus for carbonating liquids	603,031	Apr. 26	2497	566	83	518
Ackermann, Eduard, Cologne, Germany. Spice-box	597,077	Jan. 11	1096	260	82	230
Ackley, George D., Fort Worth, Tex. Seat-action flushing apparatus	598,834	Feb. 8	1293	313	82	865
Ackley, Orin, New Albany, Pa. Rail-holder	614,359	Nov. 15	2019	466	85	1044
Acklin, Alfred M., assignor to Heyl & Patterson, Pittsburg, Pa. Overhead car or like receptacle	605,620	June 14	1040	239	83	1570
Acklin, Alfred M., assignor to Heyl & Patterson, Pittsburg, Pa. Conveyer	605,621	June 14	1041	239	83	1570
Ackroyd & Best. (See Best, William, assignor.)						
Acme Machinery Company. (See Bruch, Frederick W., assignor.)						
Acme Staple Co. (See Michener, Elwood H., assignor.)						
Acme Supply Company. (See Oudin, Charles P., assignor.)						
Acre, William F., and W. P. Wafford, Brownwood, Tex. Stalk-cutter	597,160	Jan. 11	1230	289	82	255
Acron, John, Philadelphia, Pa. Collar-button and neckwear-retainer	604,357	Mar. 24	2091	469	83	1075
Acton, John H., Payne, Ohio. Corn-planter	596,971	Jan. 11	903	213	82	193



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Adam, James M., Glasgow, Scotland. Screw-propeller.....	602,651	Apr. 19	1832	418	83	377
Adam, Matthew, Philadelphia, Pa. Hook and eye.....	599,758	Mar. 1	150	35	82	1244
Adams, Abraham L., assignor of one-half to G. E. Hawes, Bridgeport, Conn. Imple- ment-handle.....	604,105	May 17	1616	363	83	964
Adams, Alma H., Irvington, N. J. Badge.....	608,357	Aug. 2	340	74	84	723
Adams, Calvin T., New York, N. Y. Vehicle-tire.....	609,318	Aug. 16	2162	511	84	1106
Adams, Calvin T., New York, N. Y. Vehicle-tire.....	609,319	Aug. 16	2163	511	84	1106
Adams, Calvin T., New York, N. Y. Vehicle-tire.....	609,320	Aug. 16	2165	511	84	1106
Adams, Charles F. and H. F., Reading, Pa. Machine for cutting ribbed fabrics.....	616,280	Dec. 20	1983	461	85	1831
Adams Company. (See Farwell, Fay O., assignor.)						
Adams, Ernest K., New York, N. Y. Compensating pendulum.....	606,753	July 5	223	48	84	45
Adams, Ernest K., New York, N. Y. Device for recording and reproducing music.....	608,415	Aug. 2	448	100	84	745
Adams, Frederick G., London, England. Chain-wheel for velocipedes.....	607,322	July 12	1288	275	84	265
Adams, Frederick G. W. J., London, England. Shutter for signaling.....	597,134	Jan. 11	1189	279	82	248
Adams, Frederick G. W. J., London, England. Electric lantern.....	603,882	May 10	1168	263 264	83	844
Adams, Frederick G. W. J., London, England. Safety incandescent electric lamp.....	603,883	May 10	1170	264	83	844
Adams, George B., Irvington, N. J. Luggage-carrier.....	613,226	Nov. 1	1	1	85	617
Adams, George E., New Britain, Conn. Envelop-fastener.....	615,056	Nov. 29	3325	764	85	1320
Adams, George E., New Britain, Conn. Separable fastener.....	615,336	Dec. 6	201	50	85	1452
Adams, George E., New Britain, Conn. Socket member for separable fasteners.....	615,776	Dec. 13	1026	240	85	1626
Adams, George E., New Britain, Conn. Stud member for separable fasteners.....	616,389	Dec. 20	2181	509	85	1871
Adams, George E., New Britain, Conn. Stud member for separable fasteners.....	616,758	Dec. 27	2880	667	85	2026
Adams, George E., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Separable fastener.....	613,874	Nov. 8	1164	267	85	859
Adams, George H. (See Goodner and Chritton, assignors.)						
Adams, George W., Stoughton, Mass. Clock striking mechanism.....	613,183	Oct. 25	2790	658	85	583
Adams, Harry L., Wilmington, Vt. Trestle.....	605,370	June 7	607	135	83	1467
Adams, Harry S. (See Fowler, Chalkley T., assignor.)						
Adams, Henry F. (See Adams, Charles F. and H. F.)						
Adams, J. D. (See Turner, Alexander, assignor.)						
Adams, John C. (See Kay and Adams.)						
Adams, John D., Baltimore, Md. Loading or unloading apparatus.....	615,947	Dec. 13	1327	310	85	1682
Adams, John H. (See Smith, William E., assignor.)						
Adams, John L., New York, N. Y. Device for preventing refilling of bottles.....	616,442	Dec. 27	2279	531	85	1911
Adams, John L., New York, N. Y. Construction of asphalt pavements.....	616,759	Dec. 27	2881	667	85	2027
Adams, John Q., Marseilles, Ill. Corn-sheller.....	599,759	Mar. 1	151	36	82	1244
Adams, John Q., Alexandria, La. Washing-machine.....	611,372	Sept. 27	2266	523 524	84	1930
Adams, John W., Augusta, Ga. Excavating apparatus.....	599,760	Mar. 1	154	37	82	1245
Adams, Lucius F., et al. (See Moon, Frank D., assignor.)						
Adams, Marcellus, West Plains, assignor of one-half to J. C. Diss, Kansas City, Mo. Fin- ger-ring exhibitor.....	608,946	Aug. 9	1433	337	84	950
Adams, Mary P., et al. (See Lonergan, Philip J., assignor.)						
Adams, Robert, London, England. Combined sliding and swinging sash.....	615,777	Dec. 13	1027	241	85	1626
Adams, Royal A., Blakesburg, Iowa. Wagon-brake.....	597,173	Jan. 11	1252	293	82	260
Adams, Samuel, Beaver, assignor to Frick & Lindsay Company, Pittsburg, Pa. Well- drilling cable.....	602,419	Apr. 19	1436	324	83	303
Adams, Samuel H., London, England. Apparatus for raising sewage.....	609,321	Aug. 16	2165	512	84	1106
Adams, Samuel M., Powhattan, Kans. Cultivator.....	600,275	Mar. 8	1223	278	82	1473
Adams, Stephen J., Pittsburg, Pa. Apparatus for forming sand molds.....	598,492	Feb. 8	723	175	82	757
Adams, Stephen J., Pittsburg, Pa. Portable foot-support.....	600,395	Mar. 8	1407	322	82	1508
Adams, Thomas, Jr. (See Jones, Ellis T., assignor.)						
Adams, Thomas F., New York, N. Y. Photograph-cabinet.....	606,325	June 28	2407	557 558	83	1868
Adams, Walter S. (See Brill and Adams.)						
Adams & Westlake Company. (See Caswell, Daniel W., assignor.)						
Adams & Westlake Company. (See Gamwell, Harry and C., assignors.)						
Adams & Westlake Company. (See Mosher, John A., assignor.)						
Adams, William H., the Younger, Los Angeles, Cal. Assaying apparatus.....	611,986	Oct. 4	676	165	85	132
Adamson, Edward, assignor to Excelsior Loom Reed Works, Incorporated, Pawtucket, R. I. Reed for looms.....	610,011	Aug. 30	3404	788	84	1377
Adamson, George D., Louisville, Ky. Bicycle propulsion.....	604,891	May 31	3033	697	83	1272
Adamson, George P., assignor to Baker & Adamson Chemical Company, Easton, Pa. Apparatus for manufacturing acids.....	601,457	Mar. 29	3272	739	82	1921
Adcock, Arthur, assignor of three-fourths to B. Toone and J. W. Black, South Wigston, England. Machine for stamping soles of boots, shoes, &c.....	604,106	May 17	1618	363 364	83	964
Adde, Charles A., assignor of one-half to T. H. and A. A. Harmon, Lock Haven, Pa. Siz- ing composition.....	606,951	July 5	547	-----	84	109
Addicks, Diedrich C., Bronson, assignor of one-half to G. Cook, Burr Oak, Mich. Device for forming wire stay-locks.....	598,131	Feb. 1	98	23	82	621
Addicks, Diedrich C., Bronson, assignor of one-half to G. Cook, Burr Oak, Mich. Tool for applying wire stay-locks in fences.....	598,132	Feb. 1	100	23	82	621
Addicks, John E., et al. (See Kelley, Alexander, assignor.)						
Addison, Robert, Pasadena, assignor of one-half to W. M. Luitweiler, Los Angeles, Cal. Pump for raising and forcing liquids.....	598,466	Feb. 1	678	166	82	731
Addyston Pipe and Steel Company. (See Goodhue, William F., assignor.)						
Ade, William F., Jr., Williamsport, Pa. Sectional mattress.....	603,718	May 10	859	191	83	784
Adee, Fred, New York, N. Y. Water-closet.....	613,616	Nov. 1	707	164	85	751
Adell, Henry D., Columbus, Ohio. Ball-caster.....	609,568	Aug. 23	2605	609	84	1207
Adelsperger, Dow L., Springfield, Ohio. Machine for making corn cellulose.....	616,177	Dec. 20	1793	414	85	1793
Adkins, Benjamin R., and C. Windsor, London, England. Apparatus for inflating pneu- matic tires.....	615,123	Nov. 29	3444	790 791	85	1343
Adkins, James E., London, Canada, assignor to D. K. Thomson, Detroit, Mich. Ticket-case.....	599,821	Mar. 1	282	63	82	1266
Adkins, Robert E., Chicago, Ill. Spring-lock.....	600,701	Mar. 15	1966	448	82	1632
Adler, Henry, Pittsburg, Pa. Stove.....	600,702	Mar. 15	1968	448 449	82	1633
Adler, Solomon, San Francisco, Cal. Bottle-locking device.....	600,055	Mar. 1	789	180	82	1368
Adolfzen, Louisa W., Hastings, Pa. Clothes-holder.....	596,888	Jan. 4	672	155	82	130
Adrian Box Company. (See Gilliland, James F., assignor.)						
Adriance, Cornelius B., Eden, assignor of one-half to E. D. Rumsey, Cattaraugus, N. Y. Velocipede.....	603,418	May 3	302	68	83	658
Adriance, Platt & Company. (See Brown, Thomas S., assignor.)						
Adriance, Platt & Company. (See Case, Henry J., assignor.)						
Adriance, Platt & Company. (See Ruef, William H., assignor.)						
Advance Thresher Company. (See Bailey, Victor C., assignor.)						
Advance Thresher Company. (See McCutcheon, John B., assignor.)						
Adt, John B., Baltimore, Md. Tobacco-cutter.....	605,371	June 7	608	135	83	1468



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Aeolian Company. (See Pain, Robert W., assignor.)						
Aermotor Company. (See Dyer and Noyes, assignors.)						
Aetna Chemical Company. (See Sturcke, Herman E., assignor.)						
Aetna Machine Company. (See Smith and Morton, assignors.)						
Affelder, Oscar L., Allegheny, Pa. Formaldehyde-generator	605,372	June 7	609	135 136	83	1468
Agar, John, East Orange, N. J. Hat-brim-curling machine	603,719	May 10	860	191	83	784
Agard, Charles F., Hartford, Conn. Sliding-door guide and closer	609,605	Aug. 23	2673	624	84	1220
Agerter, William T. (See Woodman, George A., assignor.)						
Aglar, Francis B., assignor to Interchangeable Brake Beam Company, St. Louis, Mo. Brake-beam	609,396	Aug. 23	2293	543	84	1149
Agnew, Robert H., New York, N. Y. Boat hoisting or lowering apparatus	602,611	Apr. 19	1757	401	83	362
Agnew, W. I., <i>et al.</i> (See Kellerman and Crane, assignors.)						
Ahearn, Michael D., Green Bay, Wis. Patching saws	602,293	Apr. 12	1230	271	83	247
Ahearn, William F., assignor of one-half to P. Gagnon, Two Rivers, Wis. Net-lifting machine	608,631	Aug. 9	830	192	84	837
Ahern, Denis, New York, N. Y. Boat	608,565	Aug. 9	703	159	84	815
Ahern, Thomas F., Detroit, Mich. Telephone	601,865	Apr. 5	477	96	83	89
Ahern, Thomas F., Detroit, Mich. Telephonic transmitter	606,852	July 5	408	86	84	81
Ahern, Thomas F., assignor to Detroit Switchboard and Telephone Construction Company, Detroit, Mich. Telephone-switchboard	616,046	Dec. 13	1507	352 353 354	85	1720
Ahlborn, George H., Columbia, Ind. Spring and spring-cushion	598,493	Feb. 8	725	175	82	757
Ahlborn, Lucy L. (See Weeks, Parrish C., assignor.)						
Ahrbecker, Ludwig, Hanover, Germany. Injector	597,212	Jan. 11	1314	306	82	271
Ahrens, John T., <i>et al.</i> (See Knight, Ellwood T., assignor.)						
Ahrens, John T., <i>et al.</i> (See Stadel, John M., assignor.)						
Ahrens, Louis, assignor to Ahrens & Ott Manufacturing Company, Louisville, Ky. Right or left stop and waste cock	600,131	Mar. 8	977	218	82	1425
Ahrens & Ott Manufacturing Company. (See Ahrens, Louis, assignor.)						
Ahscharumoff, Sergius. (See Rosenblatt and Ahscharumoff.)						
Aht, Babette, assignor to G. Menke, Frankfort-on-the-Main, Germany. File for loose sheets, papers, &c.	611,443	Sept. 27	2397	550	84	1952
Aichele, Christian, assignor to North Brothers Manufacturing Company, Philadelphia, Pa. Dasher for ice-cream freezers	609,322	Aug. 16	2167	512	84	1106
Aigner, Alexander, Buda-Pesth, Austria-Hungary. Parallel motion for drawing-boards	607,814	July 26	2377	505	84	515
Aiken, Benjamin F., Freetown, Mass. Device for cleaning paint and varnish from surfaces	606,907	July 5	487	105	84	97
Aiken, George D., Salt Lake City, Utah. Portable pole-step	601,849	Apr. 5	449	91	83	84
Aiken, James. (See Sewell, William H., assignor.)						
Aikin, Adelaide A., Stockton, Ala. Copying-press	609,397	Aug. 23	2298	543	84	1150
Ainley, Albert, assignor of one-half to H. E. Mabbett, Plymouth, Mass. Picking mechanism for looms	599,676	Mar. 1	1	1	82	1217
Ainslie, Charles G. (See Taylor, Charles G., assignor.)						
Ainsworth, Clarence J., Gardner, Mass. Writing-book cover	606,180	June 28	2119	487	83	1809
Air Lighter Company. (See Porter, William H., assignor.)						
Airey, James, West Hartlepool, England. Packing for pistons	612,223	Oct. 11	1113	267	85	228
Aitchison, James, Dunedin, New Zealand. Portière-rod	604,648	May 24	2613	598	83	1173
Aitken, John D., Northport, N. Y. Tire-holder	611,546	Sept. 27	2582	595	84	1989
Aitkens, George, and H. P. H. Graves, Wellington, New Zealand. Device for distending mouths of sacks or bags	612,299	Oct. 11	1257	303	85	253
Aizenman, Raphael, New York, N. Y. Support for picture-exhibitors	598,261	Feb. 1	337	77, 78	82	665
Ajax Metal Company. (See Charlier, Henri, assignor.)						
Ake, Rosina D., Philadelphia, Pa. Combined brush and scoop	603,071	Apr. 26	2568	583	83	531
Akerlind, Gustaf A., and J. T. Carroll, Chicago, Ill. Car-transom	609,323	Aug. 16	2168	512	84	1107
Akers, Earl C., Port Huron, Mich. Drawbridge	610,575	Sept. 13	804	184	84	1610
Akers, Earl C., assignor of one-half to R. E. Moss, Port Huron, Mich. Alarm for bicycles	603,032	Apr. 26	2498	566	83	518
Akins, Ralph L., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Removable cover	609,071	Aug. 16	1684	401	84	1013
Akins, Ralph L., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Removable book-cover	609,072	Aug. 16	1686	401	84	1014
Akins, Samuel W., Denver, Colo. Self-basting roasting-pan	611,954	Oct. 4	624	152	85	122
Aktiebolaget de Laval's Angturbin. (See Sohlman, Johannes, assignor.)						
Aktiebolaget L. M. Ericsson & Company. (See Ericsson, Lars M., assignor.)						
Aktien-Gesellschaft Fahrrad and Maschinenfabrik, vormals H. W. Schladitz. (See Dallmer, Albert E. T., assignor.)						
Aladdin Lamp Company. (See Wilson, Robert, assignor.)						
Alba Chemical Company. (See Sturcke, Herman E., assignor.)						
Albach, W. Harrison. (See Mackey, John C., assignor.)						
Albasini, Ettore, Turin, Italy. Process of and apparatus for covering wire with asbestos	614,819	Nov. 29	2849	656	85	1229
Alberger, John L., Buffalo, N. Y. Process of and apparatus for gasing beer or similar liquids	608,744	Aug. 9	1028	236	84	876
Alberswerth, Henry, assignor of one-half to H. Koch, New Haven, Mo. Box-fastener	613,812	Nov. 8	1062	241	85	839
Albert, Charles d', Paris, France. Cycle-pedal and toe-clip therefor	600,251	Mar. 8	1178	267	82	1463
Albertson, Albert E., Alexandria, Minn. Stump-extractor	601,113	Mar. 22	2643	603	82	1776
Albo-Carbon Light Company. (See Kidd, Walter J., assignor.)						
Albrecht, Frederick W., Jr., Brooklyn, N. Y. Bung for ale-barrels	603,243	May 3	1	1	83	601
Albrecht, Herman S., St. Louis, Mo. Pulverizer	604,283	May 17	1939	434	83	1026
Albrecht, Niklaus, Sowers, Tex. Combined planter, chopper, and cultivator	615,603	Dec. 6	712	164	85	1553
Albright, George P., Minneapolis, Minn. Mechanical motor	615,948	Dec. 13	1329	310 311	85	1683
Albright, Harry W., assignor of one-half to J. A. Stoner, York, Pa. Brake	610,426	Sept. 6	537	118	84	1541
Albright, Jacob, assignor to Electric Gas Stove Company, Detroit, Mich. Broiler	597,349	Jan. 11	1537	358	82	316
Albright, John W. (See Miller, George E., assignor.)						
Albury, Frederick L., assignor of one-half to E. H. Hester and C. B. Barnard, Tampa, Fla. Fish-trap	605,834	June 21	1451	333	83	1667
Alcatraz Paving Company. (See Nightengale, William O., assignor.)						
Alden, Adelbert H., Lawrence, N. Y. Rubber glove	599,677	Mar. 1	2	1	82	1217
Alden, Adelbert H., Lawrence, N. Y. India-rubber water-bag	604,924	May 31	3099	712	83	1285
Alden, Adelbert H., Lawrence, N. Y. India-rubber water-bag	604,925	May 31	3100	713	83	1285
Alden, Hiram R., Portland, Oreg. Wave-motor	602,796	Apr. 19	2089	472 473	83	425
Alden, Horace. (See Lyon, William B., assignor.)						
Alden Type Machine Company. (See Johnson and Low, assignors.)						
Alderfer, John M., Sharon Centre, Ohio. Crate	600,821	Mar. 15	2155	492	82	1669
Alderson, Ella M., Asbury, W. Va. Broiling and toasting device	611,595	Oct. 4	1	1	85	3
Aldredge, Madison, <i>et al.</i> (See Stanton, Henry, assignor.)						
Aldrich, Lorin, Indian Orchard, Mass. Valve	615,778	Dec. 13	1028	241 242	85	1627



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Aldrich, O. W., <i>et al.</i> (See Williams, Fillmore, assignor.)						
Aldridge, Charles H., Loughborough, England. Straight-knitting machine .....	614,599	Nov. 22	2453	<div>559 560 561</div>	<div>85</div>	1137
Alexander, Abraham, <i>et al.</i> (See Wendeborn, Ernest C., assignor.)						
Alexander, Archie. (See Coltrin, John C., assignor.)						
Alexander, Arthur H., London, England. Indexing-machine .....	606,853	July 5	408	87	84	81
Alexander, Charles C., Bayonne, N. J. Tiling for floors, walls, ceilings, fireplaces, &c ..	602,691	Apr. 19	1913	436	83	392
Alexander, Charles C., Bayonne, N. J. Tile and tile-setting .....	615,515	Dec. 6	561	128	85	1520
Alexander, Clarence L., Como, Tenn. Horse-rake .....	602,535	Apr. 19	1632	372	83	339
Alexander, Henry J. (See Davis and Alexander.)						
Alexander, James G., Fairfield, Iowa. Cultivator .....	601,226	Mar. 29	2849	651	82	1841
Alexander, Jesse, <i>et al.</i> (See Smith and Freir, assignors.)						
Alexander, Jesse, New York, N. Y. Registering device .....	615,779	Dec. 13	1030	242	85	1627
Alexander, Julia H., Louisville, Ky. Heating utensil .....	605,571	June 14	930	217	83	1552
Alexander, Philemon W., Allapaha, Ga. Driving mechanism for dynamos .....	604,511	May 24	2378	541	83	1128
Alexander, Rebecca, Fresno, Cal. Curtain-hanger .....	615,124	Nov. 29	3448	791	85	1344
Alexander, Robert L., Stoutland, Mo. Check-row corn-planter .....	612,693	Oct. 18	1951	462	85	398
Alexander Smith & Sons Carpet Company. (See Tymeson, Eugene, assignor.)						
Alexander, Thomas G. A., New York, N. Y. Keyless lock .....	611,547	Sept. 27	2583	<div>595 596</div>	<div>84</div>	1989
Alexander, Walter S., New York, N. Y., assignor, by mesne assignments, to New Jersey Valve Company, of New Jersey. Valve-controlling device .....	604,358	May 24	2091	469	83	1075
Alexandroff, Warsanophy, assignor of one-half to A. Coumbary, St. Petersburg, Russia. Means for increasing lifting capacity of floating bodies .....	607,815	July 26	2378	505	84	515
Alford, Eugene C., Portland, Oreg. Back-rest for vehicle-seats .....	604,284	May 17	1940	435	83	1027
Algeo, William G., Jr., Beaver Falls, Pa. Rotary straightener and polisher .....	603,836	May 10	1083	242	83	826
Alitto, Antonio, Chicago, Ill. Stove or other grate .....	605,242	June 7	340	78	83	1415
Alitto, Antonio, Chicago, Ill. Door for stoves .....	616,281	Dec. 20	1984	462	85	1832
Alkire, John W., Eaton, Ohio. Harvester .....	598,192	Feb. 1	211	49	82	642
Allars, Louis. (See Smith, Charles W., assignor.)						
Alden, Thomas S., <i>et al.</i> (See McAlpine, John, assignor.)						
Allen, Aaron B., Pueblo, Colo. Metallic cross-tie and rail-fastening .....	607,906	July 26	2566	544	84	550
Allen, Alexander, Philadelphia, Pa. Union suit .....	613,953	Nov. 8	1284	291	85	882
Allen, Alvoni R. (See Woods, Franklin, assignor.)						
Allen, Andrew J., Shadydale, Ga. Planter .....	615,205	Nov. 29	3620	832	85	1379
Allen, Arthur N., Chanute, Kans. Mucilage-holder .....	606,111	June 21	1992	457	83	1767
Allen, Arthur S., Boston, Mass. Tympan for printing-presses .....	613,217	Oct. 25	2872	678	85	597
Allen, Arthur S., Boston, Mass. Tympan for printing .....	613,218	Oct. 25	2874	678	85	597
Allen, Arthur S., Boston, Mass. Tympan-surface for printing-presses .....	613,219	Oct. 25	2877	678	85	598
Allen, Arthur S., Boston, Mass. Printing-press .....	613,220	Oct. 25	2878	679	85	598
Allen, Arthur S., Boston, Mass. Make-ready device for printing-presses, &c .....	613,221	Oct. 25	2880	679	85	598
Allen, Benjamin F. (See Harrell, John H., assignor.)						
Allen, Benjamin F., Mobile, Ala. Car-truck .....	610,785	Sept. 13	1163	<div>268 269</div>	<div>84</div>	1684
Allen, Benjamin T. (See Hershey and Allen.)						
Allen, C. F. (See Courser, James, assignor.)						
Allen, Charles B., assignor to A. H. McNeal, Burlington, N. J. Rotary rammer for pipe-flasks .....	612,300	Oct. 11	1258	304	85	253
Allen, Charles C., Lincoln, Nebr. Valve for pneumatic tires for bicycles or other vehicles ..	599,581	Feb. 22	2652	621	82	1164
Allen, Charles C. and F. G., South Hadley Falls, Mass. Puncture-closing compound for pneumatic tires .....	599,115	Feb. 15	1783		82	975
Allen, Charles H., Dansville, N. Y. Bicycle-bell .....	612,387	Oct. 18	1405	340	85	295
Allen, Charles H., assignor of one-half to E. E. Wood, Woburn, Mass. Leather-splitting machine .....	611,026	Sept. 20	1587	364	84	1782
Allen, Charles J., and F. R. Tibbitts, assignors to Playford Stoker Company, Cleveland, Ohio. Furnace .....	598,835	Feb. 8	1294	<div>313 314</div>	<div>82</div>	865
Allen, Charles L. (See Bowman, John H., assignor.)						
Allen, Charles P., Denver, Colo. Apparatus for purifying and aerating water .....	603,990	May 10	1343	<div>307 308</div>	<div>83</div>	877
Allen, Charles W., Option, Pa. Self-leveling table .....	613,436	Nov. 1	412	94	85	694
Allen, David H. (See Willi, Theodore, assignor.)						
Allen, David H., Miamisburg, Ohio. Combined reading stand and table .....	608,503	Aug. 2	591	132	84	773
Allen, David H., and W. H. Gamble, Miamisburg, Ohio. Price-indicating attachment for weighing-scales. (Reissue) .....	11,699	Oct. 25	2892	681	85	601
Allen, David M., Mehrose Park, Ill. Window .....	598,214	Feb. 1	256	56, 57	82	650
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Carpet and matting clamp for sewing-machines .....	598,332	Feb. 1	457	109	82	688
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Blade-grinder .....	598,333	Feb. 1	458	109	82	688
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine trimmer .....	598,334	Feb. 1	459	<div>109 110</div>	<div>82</div>	689
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Carpet-binding apparatus for sewing-machines .....	600,502	Mar. 15	1629	372	82	1569
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Carpet-binding apparatus for sewing-machines .....	600,503	Mar. 15	1630	372	82	1569
Allen, Elmer E., Sunderland, Vt. Folding chair .....	611,048	Sept. 20	1625	371	84	1789
Allen, Elmer E., Sunderland, Vt. Reclining-chair .....	611,049	Sept. 20	1627	372	84	1789
Allen, Erasmus W., Holton, Kans. Washing-machine .....	605,987	June 21	1758	403	83	1723
Allen, Everett P., assignor of one-half to J. H. Egelston, Chicago, Ill. Automatic air-valve for radiators .....	609,191	Aug. 16	1906	454	84	1052
Allen, Frank, Brooklyn, N. Y. Absorption refrigerating-machine .....	606,326	June 28	2408	558	83	1868
Allen, Fred G. (See Allen, Charles C. and F. G.)						
Allen, Frederic S., New York, N. Y. Tricycle for propulsion by hand-power .....	606,952	July 5	547	120	84	109
Allen, George, Franklin, Pa. Apparatus for pumping wells .....	612,184	Oct. 11	1046	251	85	214
Allen, George H., Clinton, N. Y. Decorating wood in imitation of marquetry .....	606,953	July 5	548	121	84	109
Allen, George L., Bradford, Pa. Machine for making mud-guards for bicycles .....	608,313	Aug. 2	252	<div>57 58 59</div>	<div>84</div>	705
Allen, George O., <i>et al.</i> (See Merriam, Lyman W., assignor.)						
Allen, Hannah, Wakefield, R. I. Bed-pan .....	614,526	Nov. 22	2320	532	85	1113
Allen, Herbert J., Deering, Me. Soda-fountain cooler .....	598,551	Feb. 8	825	197	82	777
Allen, James, Wilmington, and M. L. Jones, Troy, N. C. Machine for sawing logs .....	606,041	June 21	1860	429	83	1740
Allen, Jefferson D., and E. Winston, Morgan, Tex. Sulky-plow .....	612,809	Oct. 25	2177	518	85	461
Allen, John F., New York, N. Y. Portable drilling-machine .....	607,816	July 26	2379	505	84	515
Allen, John H., Keyser, W. Va. Combination-tool .....	607,907	July 26	2568	544	84	550
Allen, John R., Idlewood, Ill. Spark-arrester .....	606,637	July 5	1	1	84	3



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Allen, John V., Philadelphia, Pa. Puncture-band for pneumatic tires.....	608,166	Aug. 2	1	1	84	655
Allen, John W., Sipe Springs, Tex. Wire-fence machine.....	597,931	Jan. 25	2534	592	82	541
Allen, John W., Davis, Ind. Ter. Tightening tires.....	605,534	June 14	860	201	83	1538
Allen, John W., and C. West, New Windsor, Ill. Check-row planter.....	610,786	Sept. 13	1168	269	84	1684
Allen, Joseph H., New Palestine, Mo. Fence-wire stretcher.....	600,242	Mar. 8	1158	264	82	1461
Allen, Joseph M.; and G. W. Bearden, Cartecay, Ga. Corn-sheller.....	599,582	Feb. 22	2654	621	82	1164
Allen, Jot S., assignor of one-fifth to M. M. Ham, Gainesville, Ga. Coffee or tea pot.....	609,073	Aug. 16	1688	402	84	1014
Allen, Julius L., Mendocino, Cal. Bicycle-brake.....	606,496	June 28	2712	624	83	1927
Allen, Leslie B., Springfield, Mass. Illuminating apparatus.....	608,745	Aug. 9	1032	236	84	877
Allen, Orlando I. (See Glover, Theodore S., assignor.)						
Allen, Oscar M., Kalamazoo, Mich. Burial-casket.....	601,823	Apr. 5	380	80	83	71
Allen, Philip. (See Kelly, George, assignor.)						
Allen, Ralph H., Fitchburg, Mass. Lock for telephones.....	601,786	Apr. 5	316	62	83	60
Allen, Sabin E. (See Wildman and Allen.)						
Allen, Samuel, Sr., Dansville, N. Y. Bicycle-bell.....	612,888	Oct. 18	1406	340	85	295
Allen, Samuel, Dansville, N. Y. Velocipede.....	612,389	Oct. 18	1408	340	85	295
Allen, Samuel L., Moorestown, N. J. Distributer for seeds and fertilizers.....	603,476	May 3	421	93, 94	83	681
Allen, Samuel L., Moorestown, N. J. Hill-dropper.....	614,415	Nov. 15	2126	489, 490	85	1064
Allen, Stephen S., et al. (See Leishman, David F., assignor.)						
Allen, Theodore E., New York, N. Y. Mechanism for providing one end of wrappers for cigarettes with coating material for mouthpieces.....	596,564	Jan. 4	180	40, 41	82	37
Allen, Thomas P. (See Gray, Walter G., assignor.)						
Allen-Thompson-Whitney Company. (See Thompson, Elwin L., assignor.)						
Allen Tripoli Company. (See McLean, Horace G., assignor.)						
Allen, Walter J., Shreveport, La., assignor of one-half to R. W. Houk, Galveston, Tex. Valve for engines.....	613,954	Nov. 8	1284	292	85	882
Allen, William E., Salem, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp stop-motion for looms.....	608,971	Aug. 9	1475	349	84	959
Allen, William G., Hartford, Conn. Machine for swaging wire.....	597,756	Jan. 25	2237	520, 521	82	485
Allen, William G., Hartford, Conn. Metal spoke.....	598,620	Feb. 8	945	227	82	800
Allen, William G., Hartford, Conn. Machine for making metal spokes.....	605,050	May 31	3300	757, 758	83	1324
Allen, William J., West Superior, Wis. Automatic pen-ejecting penholder.....	615,125	Nov. 29	3449	791	85	1344
Allen, William P. (See Krotz, Allen, and Kelly.)						
Allen, William P., South Hadley Falls, Mass. Self-discharging receptacle for puncture-closing compounds.....	614,643	Nov. 22	2538	578	85	1153
Allen, Wilson A., Rochester, Minn. Invalid-elevator.....	616,282	Dec. 20	1985	462	85	1832
Allesina, John, Portland, Oreg. Umbrella-rib-tip cup.....	615,516	Dec. 6	563	129	85	1521
Allfree, James B., Indianapolis, Ind. Engine valve-gear.....	613,184	Oct. 25	2791	658, 659	85	583
Allgoever, August, New York, N. Y. Skirt-protector.....	607,633	July 19	2040	423	84	432
Allin, William J., Clarendon, Ark. Railway-tie plate.....	601,766	Apr. 5	277	55	83	53
Alling & Co. (See Christl, Joseph V., assignor.)						
Allingham, James, Chicago, Ill., assignor to Allingham Stove Works, of Illinois. Heating and cooking device.....	604,820	May 31	2912	666, 667	83	1249
Allingham Stove Works. (See Allingham, James, assignor.)						
Allington, William E., Saginaw, Mich. Dust-collector.....	604,871	May 31	3008	690, 691	83	1267
Allison, William D., Indianapolis, Ind. Physician's table.....	612,373	Oct. 11	1381	334, 335	85	277
Allott, Sylvia, et al. (See Donaldson, Fred H., assignor.)						
Allred, John, Rockingham, N. C. Rocking cradle or similar rocker.....	603,002	Apr. 26	2452	558	83	510
Allshouse, Clarence E., Chicago, Ill. Binding implement.....	599,486	Feb. 22	2484	583	82	1131
Allsopp, Percy H. (See Williams and Allsopp.)						
Allsup, George, and G. D. Barry, Barneston, Nebr. Mechanism for lifting pipes or rods from wells.....	609,398	Aug. 23	2299	543	84	1150
Allwood, Thomas, Auburn, assignor of one-half to V. A. Bailey, Phenix, R. I. Machine for making horseshoes.....	614,527	Nov. 22	2321	532	85	1113
Almond, Thomas R., Dunwoodie Heights, N. Y. Reversible grinding apparatus.....	601,391	Mar. 29	3160	714	82	1900
Almstead, Gaston W., Bridgeport, Conn. Fire-extinguisher.....	607,562	July 19	1906	394	84	407
Almy, Elmer E., et al. (See Bell, Harold J., assignor.)						
Almy, William H., et al. (See Bell, Harold J., assignor.)						
Alsdorf, Augusta V. (See Reynolds, Catherine, assignor.)						
Alshouse, Franklin E., Markle, Ind. Disk-harrow truck.....	608,167	Aug. 2	2	1	84	655
Alt, Hermann, Wiesbaden, and E. Culmann, Mülhausen, assignors to Kalle & Co., Biebrich, Germany. Dyeing with quinonoxim colors.....	615,232	Dec. 6	1	-----	85	1411
Altenbaugh, William F., Tiffin, Ohio, assignor to United States Glass Company, Pittsburgh, Pa. Machine for finishing glassware.....	599,822	Mar. 1	283	63, 64	82	1266
Altenbaugh, William F., Tiffin, Ohio, assignor to United States Glass Company, Pittsburgh, Pa. Cooling glass articles.....	599,887	Mar. 1	404	90	82	1290
Altenbaugh, William F., assignor of one-half to G. Beatty, Tiffin, Ohio. Press for molding glassware.....	601,491	Mar. 29	3326	752, 753	82	1933
Alter, Simon D., and L. T. Young, Philadelphia, Pa. Flash-light apparatus.....	613,955	Nov. 8	1285	292	85	882
Alter, William P., Dennison, Ohio. Locomotive air-brake.....	612,149	Oct. 11	984	238	85	202
Alter, William S., Tarentum, Pa. Gas-stove.....	598,552	Feb. 8	826	197	82	777
Alter, William S., and E. W. Anchors, Tarentum, Pa. Drawer.....	614,923	Nov. 29	3048	698	85	1267
Altham, George J., Fall River, Mass. Power-transmitting mechanism.....	599,545	Feb. 22	2578	604, 605	82	1149
Altham, George J., Fall River, Mass. Power-transmitter.....	599,546	Feb. 22	2582	606, 607	82	1150
Altham, George J., Swansea, Mass. Vehicle.....	614,781	Nov. 22	2776	634	85	1199
Althen, William C., Columbus, Ohio. Nut-lock.....	599,980	Mar. 1	557	129	82	1319
Althouse, Albert C., Pineville, Pa. Lamp-chimney holder.....	609,399	Aug. 23	2300	544	84	1151
Altman, Andrew, Elizabeth, N. J. Can-opener.....	613,653	Nov. 8	763	175	85	783
Altman, Thomas. (See Brooks and Altman.)						
Altmann, Fritz, Berlin, Germany. Appliance for burning hydrocarbon oils with blue or Bunsen flame.....	598,262	Feb. 1	338	78	82	665
Altmann, Fritz, Berlin, Germany. Apparatus for burning hydrocarbon oils with blue flame.....	603,072	Apr. 26	2568	583	83	532
Altshul, Henry, New York, N. Y. Indicator for medicine-bottles.....	596,646	Jan. 4	333	72	82	66
Altshul, Henry, New York, N. Y. Funnel.....	615,337	Dec. 6	202	50	85	1452
Alvord, Clarence E., Denver, assignor to M. P. Getchell, Gunnison, Colo. Sage-brush grubber.....	610,296	Sept. 6	302	65	84	1500
Alvord, Clarence E., Crested Butte, assignor to M. P. Getchell, Gunnison, Colo. Sage-brush grubber.....	610,375	Sept. 6	452	99	84	1525



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Amann, Charles H. (See Witt and Amann.)						
Amanns, Abraham, assignor of two-thirds to J. V. Wright and J. Childers, Grammer, Ind. } Bale-tying press.....	600,328	Mar. 8	1299	{ 297 298	{ 82	1487
Amazeen Machine Company. (See Bayley, Charles H., assignor.)						
Ambler, Russell P., De Funiak Springs, Fla. Bicycle .....	609,722	Aug. 23	2890	675	84	1263
Amborn, George, Jr. (See Booth and Amborn.)						
Ambrose, William R., Sheffield, Ala. Car-coupling .....	600,396	Mar. 8	1409	{ 322 323	{ 82	1508
Amend, Otto P., assignor of one-half to J. H. Macy, New York, N. Y. Desulfurizing re- fractory oils.....	601,331 601,697	Mar. 29 Apr. 5	3062 130	26	82 83	1882 28
Ament, Anson B., and M. H. Evans, Riverside, Cal. Tree-prop bracket .....						
American Arithmometer Company. (See Pike, William H., Jr., assignor.)						
American Automatic Banjo Company. (See Gustafson, Walfrid, assignor.)						
American Automatic Banjo Company. (See Kendall, Charles B., assignor.)						
American Automatic Banjo Company. (See Kendall and Tirrell, assignors.)						
American Automatic Banjo Company. (See Lorenz and De Lue, assignors.)						
American Automatic Banjo Company. (See Reed, William S., assignor.)						
American Automatic Banjo Company. (See Tirrell, Jacob P., assignor.)						
American Automatic Faucet Company. (See O'Lally, Patrick K., assignor.)						
American Battery Company. (See Kaufmann, Charles S., assignor.)						
American Ball Bearing Company. (See Baker, Walter C., assignor.)						
American Bell Telephone Company. (See Dean, William W., assignor.)						
American Bell Telephone Company. (See Field, Stephen D., assignor.)						
American Bell Telephone Company. (See Shreeve, Herbert E., assignor.)						
American Bell Telephone Company. (See Stone, John S., assignor.)						
American Bell Telephone Company. (See Wales and Rhodes, assignors.)						
American Cash Register Company. (See Hoffman and Norton, assignors.)						
American Clay Working Machinery Company. (See Wallace, William W., assignor.)						
American Cotton-Bale Company. (See Heath, Mark A., assignor.)						
American Computing Scale Company. (See Killman and Bratten, assignors.)						
American Cotton Company. (See Ball, David C., assignor.)						
American Cotton Company. (See Dyer, Frank L., assignor.)						
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American Cotton Company. (See Hutchinson, Thomas F., assignor.)						
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American Dynamo Engine and Motor Lamp Company. (See Whitfield, Marcy D., as- signor.)						
American Electric Heating Corporation. (See Chase, Harvey S., assignor.)						
American Electric Heating Corporation. (See O'Neill, Henry G., assignor.)						
American Electric Heating Corporation. (See O'Neill and Gale, assignors.)						
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American Electric Meter Company. (See Marks and Green, assignors.)						
American Electric Vehicle Company. (See Knudsen, Karsten, assignor.)						
American Electrical Novelty and Manufacturing Company. (See Misell, David, assignor.)						
American Engineering Company. (See Wood, Charles F., assignor.)						
American Fastener Company of Baltimore City. (See Mahon, Ormsby L., assignor.)						
American Faucet Company. (See Rawley, William C., assignor.)						
American Graphophone Company. (See Macdonald, Thomas H., assignor.)						
American Harrow Company. (See Choate, Charles N., assignor.)						
American Harrow Company. (See Garst, Stephen H. and D., assignors.)						
American Harrow Company. (See Ovenshire, Elijah A., assignor.)						
American Incandescent Gas Company. (See Hennessy, Thomas, assignor.)						
American Indicator Company. (See Reynolds and Turner, assignors.)						
American Indicator Company. (See Turner, Herbert C., assignor.)						
American Indicator Company. (See Turner, William A., assignor.)						
American Kit Company. (See Meeker, Ellis R., assignor.)						
American Lighting Company. (See Momand, Ragland, assignor.)						
American Manufacturing Company. (See Cole, Thomas A., assignor.)						
American Mason Safety Tread Company. (See Locke, Charles W., assignor.)						
American Metal Lath Fire Proof Construction and Manufacturing Company. (See For- dyce, Alexander R., assignor.)						
American Metal Lath Fire Proof Construction and Manufacturing Company. (See Forth, Charles, assignor.)						
American Mutoscope Company. (See Casler, Herman, assignor.)						
American Mutoscope Company. (See Marvin, Harry N., assignor.)						
American Mutoscope Company. (See Mason, Joseph, assignor.)						
American Optical Company. (See Blanchard, Frederick G., assignor.)						
American Optical Company. (See Wells, George W., assignor.)						
American Pegamoid Company. (See Oliver, Frederick W., assignor.)						
American Pulley Company. (See Corscaden, Thomas, assignor.)						
American Racker Company. (See Haefner, Carl, assignor.)						
American Rail Joint and Manufacturing Company. (See Claffin, George D., Jr., assignor.)						
American Railway Electric Light Company. (See Biddle, William, assignor.)						
American Rice Food and Manufacturing Company. (See Cook, George F., assignor.)						
American Ring Company. (See Miller, George B., assignor.)						
American Road Machine Company. (See Philips, Edwin S., assignor.)						
American Soda Fountain Company. (See Lippincott, Fisher H., assignor.)						
American Specialty Manufacturing Company. (See Capewell, George J., assignor.)						
American Stamping Company. (See Connors, Timothy, assignor.)						
American Stoker Company. (See Wood, Wilfred R., assignor.)						
American Tobacco Company. (See Campbell, Daniel J., assignor.)						
American Tool and Machine Company. (See Arnold, Henry F., assignor.)						
American Tool Works Company. (See Donaldson, William, assignor.)						
American Type Founder's Company. (See Owens, Oscar, assignor.)						
American Typewriter Company. (See Marshman and Burridge, assignors.)						
American Universal Lighting Company. (See Dennis, William H., assignor.)						
American Waltham Manufacturing Company. (See Tinker, George M., assignor.)						
American Waltham Watch Company. (See Marsh and Leach, assignors.)						
American Writing Machine Company. (See Wallace, Casper D., assignor.)						
Ames, Arthur. (See McCausland, Alexander G., assignor.)						
Ames, Arthur N., Franklin, N. H., assignor to Mayo Knitting Machine and Needle Com- pany, of New Hampshire. Thickening-thread and take-up mechanism for knitting- machines .....	600,761	Mar. 15	2064	473	82	1652
Ames, David J. (See Howe, Ames, and Labare.)						
Ames, Helen A., Brookline, Mass. Remailable box .....	610,337	Sept. 6	380	81	84	1513



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Ames, Helen A., Brookline, Mass. Label-holder	610,338	Sept. 6	381	81	84	1513
Ames, John F., Portland, Oreg. Type and type-holder for box-printing	608,746	Aug. 9	1034	236	84	878
Ames, William H., St. Louis, Mo. Vise	613,351	Nov. 1	241	54	85	664
Ameye, Camille, Iseghem, Belgium. Method of and apparatus for treating liquids	598,722	Feb. 8	1128	272	82	833
Amm, James. (See Dingman, Allen H., assignor.)						
Ammonia Refrigerating and Supply Company. (See Landis, Frederick B., assignor.)						
Amory, William M., New York, N. Y. Pneumatic-tire-repairing device	602,420	Apr. 19	1437	324	83	303
Amory, William N. (See Binney, Charles R., assignor.)						
Amos, Alexander M., Buffalo, N. Y. Cooking-stove	607,976	July 26	2680	572	84	572
Amos, J. F., Jr., Fredericktown, Ohio. Corn-planter	615,949	Dec. 13	1330	311	85	1683
Ams, Max. (See Brenzinger, Julius, assignor.)						
Amsden, Charles M., <i>et al.</i> (See Griffin, Russell B., assignor.)						
Amsinck, Rudolf, Bergedorf, Germany. Receptacle for packing and forwarding provisions	598,757	Feb. 8	1179	283	82	843
Ancel, Jacques, Paris, France. Ore-sorter	602,250	Apr. 12	1148	252	83	231
Anchors, Ellis W. (See Alter and Anchors.)						
Anck, John M., Philadelphia, Pa. Electric-lighting gas-burner	614,528	Nov. 22	2322	532	85	1113
Anck, John M., assignor to M. E. Anck, Philadelphia, Pa. Guard for garment-supporters	611,596	Oct. 4	2	1	85	3
Anck, Mary E. (See Anck, John M., assignor.)						
Anders, Paul, Bärtsdorf, Germany. Funnel	596,972	Jan. 11	905	213	82	193
Andersen, Edvard, Stavanger, Norway. Apparatus for securing fish upon wires in regular rows	603,033	Apr. 26	2498	566	83	518
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Electric switch	598,553	Feb. 8	827	197	82	777
Anderson, Albert. (See Andersen, Johan M., assignor.)						
Anderson, Albert E., Belfast, Tenn. Harvester	614,600	Nov. 22	2462	562	85	1138
Anderson, Anders, Nelson, Minn. Sled-propeller	599,678	Mar. 1	2	1	82	1217
Anderson, Andrew C., <i>et al.</i> (See Larson and Branzell, assignors.)						
Anderson, Andrew M. (See Locke and Anderson.)						
Anderson, Anton E., assignor to X Chair Patents Company, Limited, London, England. Collapsible folding crate	616,445	Dec. 27	2282	531 532	85	1911
Anderson, Anton G., and F. Mohn, Chicago, Ill. Automatic fire-extinguisher	610,376	Sept. 6	453	99	84	1525
Anderson, August G. (See Anderson, Lars M. and A. G.)						
Anderson, Benjamin B. (See Sebastian and Anderson.)						
Anderson, Casper E., Castle Dale, Utah. Eccentric	598,836	Feb. 8	1296	314	82	866
Anderson, Casper E., Castle Dale, Utah. Monkey-wrench	601,114	Mar. 22	2644	603	82	1776
Anderson, Charles, assignor to Heath-Quimby Company, Minneapolis, Minn. Swivel connection	609,383	Aug. 16	2258	534	84	1124
Anderson, Charles A., and E. A. Ericksson, Chicago, Ill. Hot-air air-compressor	601,031	Mar. 22	2514	572	82	1749
Anderson, Charles J., <i>et al.</i> (See Cook, Frederick W., assignor.)						
Anderson Company. (See Anderson, Lars M. and A. G., assignors.)						
Anderson, David, and D. Bevan, Delphos, Ohio. Derailing device	611,548	Sept. 27	2587	596	84	1990
Anderson, Edward, Elgin, Ill. Bicycle-handle	608,566	Aug. 9	704	159	84	815
Anderson, Edward, assignor to J. A. McNaught, Sundance, Wyo. Hat-clip	608,821	Aug. 9	1201	281	84	907
Anderson, Edward, assignor of one-half to J. F. C. Robinson, Sundance, Wyo. Device for suspending stove-lid lifters	612,451	Oct. 18	1516	364	85	316
Anderson, Edward D., Washington, D. C. Bicycle-brake	597,932	Jan. 25	2536	592	82	541
Anderson, Edward H., and D. P. Thomson, Schenectady, N. Y., assignors to General Electric Company, of New York. Armature for dynamo-electric machines	608,277	Aug. 2	184	44	84	691
Anderson, Edward M., Jersey City, N. J. Scrap or sample book	602,817	Apr. 26	2141	486	83	451
Anderson, Edward S. (See Dwyer, Anderson, and Mellina.)						
Anderson, Edwin S. (See Culveyhouse and Anderson.)						
Anderson, Elias. (See Hubbard, Frank G., assignor.)						
Anderson, Ellery I., and O. M. Morrill, Charleston, S. C. Lock	604,951	May 31	3134	720	83	1292
Anderson, Emil, Boston, Mass. Horseshoe	601,541	Mar. 29	3409	773	82	1952
Anderson, Francis T. (See Middaugh, Hoevet, and Anderson.) (Reissue.)						
Anderson, Frank O., Jamestown, N. Y. Bedstead	614,820	Nov. 29	2850	656	85	1229
Anderson, Frederick F., Kansas City, Mo., and T. Krauss, Argentine, Kans., assignors of one-eighth to V. Seeser, Kansas City, Mo. Type-writing machine	597,664	Jan. 18	2075	486 487	82	438
Anderson, George H., assignor to Hulse-Anderson Company, Columbus, Ohio. Rocking-chair spring	612,224	Oct. 11	1115	267	85	228
Anderson, Gilbert, Christchurch, New Zealand. Automatic weighing apparatus	603,371	May 3	218	49	83	643
Anderson, Gustaf A., <i>et al.</i> (See Lundquist, Frank A., assignor.)						
Anderson, Gustave, Wells, Minn. Combined bag-holder and truck	616,443	Dec. 27	2280	531	85	1911
Anderson, Gustave, assignor of one-half to Fairmount Machine Company, Philadelphia, Pa. Clutch	611,549	Sept. 27	2588	596 597	84	1991
Anderson, Henry B. (See Milligan, Robert E., assignor.)						
Anderson, Henry B. (See Williamson, James E., assignor.)						
Anderson, Isaac, Vulcan, Colo. Amalgamator	611,346	Sept. 27	2199	508	84	1917
Anderson, Jacob. (See Smedeman, Gustaf, assignor.)						
Anderson, James W., Philadelphia, Pa. Cornice-ladder	607,323	July 12	1289	275	84	266
Anderson, James W., Chrisman, Ill. Flood-gate	607,534	July 19	1851	385	84	398
Anderson, Jens, assignor of two-thirds to W. O. Fallon and J. Keogh, Walla Walla, Wash. Carrying apparatus	599,137	Feb. 15	1820	432	82	982
Anderson, Jens, assignor of two-thirds to W. O. Fallon and J. Keough, Walla Walla, Wash. Carrying apparatus	606,618	June 28	2935	680	83	1970
Anderson, John, <i>et al.</i> (See Lundquist, Frank A., assignor.)						
Anderson, John, Philadelphia, Pa. Meat-cutter and feeding device	598,723	Feb. 8	1129	272	82	834
Anderson, John, Opechee, Mich. Bootjack	612,764	Oct. 18	2081	494	85	422
Anderson, John, Harmarville, Pa. Combined curtain-pole adjuster and support	613,185	Oct. 25	2796	659	85	584
Anderson, John, assignor of one-half to F. Hardart, Philadelphia, Pa. Butter cutting and feeding machine	608,016	July 26	2771	589	84	592
Anderson, John A. (See Jackson and Anderson.)						
Anderson, John A., Wakefield, Mass. Bicycle	604,011	May 17	1431	321	83	929
Anderson, John A., Sioux City, Iowa. Threshing-machine cylinder	613,654	Nov. 8	764	175	85	788
Anderson, John A. E., assignor of two-thirds to W. L. Higgins and T. O. Callis, Indianapolis, Ind. Ice-cream freezer	603,227	Apr. 26	2831	646	83	583
Anderson, John J., Ellensburg, Wash. Adjustable table	608,094	July 26	2895	620	84	617
Anderson, Lars M. and A. G., Moorhead, Minn., assignors to Anderson Company, of Minnesota. Sled	612,475	Oct. 18	1560	374	85	324
Anderson, Lauritz, Quincy, Ill. Washboiler	611,804	Oct. 4	363	87	85	73
Anderson, Lee, assignor of one-half to W. B. Howard and A. Staggs, Paris, Tex. Arm for telegraph-poles	600,397	Mar. 8	1412	323	82	1508
Anderson, Louis, Hillsborough, N. D. Belt-guide	613,956	Nov. 8	1287	292	85	882
Anderson, Margagreta, <i>et al.</i> (See Jacobson, Jacob, assignor.)						
Anderson, Maurice, Chicago, Ill. Cash-receiver	605,561	June 14	910	213	83	1549
Anderson, Mildred N., New York, N. Y. Skirt-supporter	605,465	June 14	757	174	83	1519



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Anderson, Nelson F. and W. T., Hardin, Ill. Steam-boiler .....	613,813	Nov. 8	1063	241 242	85	839
Anderson, Oscar, Newark, N. J. Bearing for vertical shafts .....	607,535	July 19	1852	385	84	398
Anderson, Robert A., Mount Lehman, Canada. Fruit-picker .....	602,551	Apr. 19	1659	377	83	344
Anderson, Rufus L., Energy, S. C. Mail-carrying apparatus .....	598,171	Feb. 1	166	39, 40	82	634
Anderson Safety Elevator Company. (See Murdock, Horace B., assignor.)						
Anderson, Thomas H. (See Hadaway and Anderson.)						
Anderson, Ulrich, Eau Claire, Wis. Sawmill-carriage .....	602,927	Apr. 26	2326	529 530	83	487
Anderson, Valerius D., Cleveland, Ohio. Press .....	602,928	Apr. 26	2330	530 531	83	488
Anderson, Valerius D., Cleveland, Ohio. Press .....	602,929	Apr. 26	2334	531	83	488
Anderson, Valerius D., Cleveland, Ohio. Drier .....	610,516	Sept. 13	709	160	84	1591
Anderson, Victor, Chicago, Ill. Organ .....	598,311	Feb. 1	426	101	82	683
Anderson, Wilbur C., West Hoboken, N. J. Means for arresting motion of electric cars .....	600,252	Mar. 8	1179	267	82	1464
Anderson, William C., San José, Cal. Apparatus for preparing prunes for drying .....	610,377	Sept. 6	455	99	84	1526
Anderson, William E., Frewsburg, N. Y. Fire-escape .....	603,781	May 10	967	216	83	804
Anderson, William E., Little Rock, Ark., assignor to Standard Circular Cotton Company, Limited, Liverpool, England. Cotton-press .....	604,012	May 17	1433	321 322 323	83	929
Anderson, William T. (See Anderson, Nelson F. and W. T.)						
Anderson, William W., Bonanza, Ky. Reversible double-shovel plow .....	612,984	Oct. 25	2477	590	85	519
Anderton, Stephen P., New York, N. Y. Game apparatus .....	598,969	Feb. 15	1541	366	82	928
Andlauer, Raymond. (See Fink and Andlauer.)						
Andlauer, Raymond, Kansas City, Kans. Folding curtain .....	612,985	Oct. 25	2477	591	85	520
Andre, Jennie F. (See Powers, Abner B., assignor.)						
Andraee, Otto, Central Valley, N. Y. Fumigator .....	600,213	Mar. 8	1109	253	82	1451
Andreasen, Ole J., Copenhagen, Denmark. Lift for binding-machines .....	612,301	Oct. 11	1260	304	85	254
André, Frank, Chicago, Ill. Centrifugal pulverizer .....	600,473	Mar. 8	1551	357	82	1534
André, Alban, Beverly, assignor of one-half to A. G. E. Hope, Boston, Mass. Chair .....	597,665	Jan. 18	2082	487	82	439
Andreoli, Emile, London, England. Apparatus for electrodeposition of gold and silver .....	598,193	Feb. 1	213	49	82	643
Andreoli, Emile, London, England. Apparatus for manufacturing ozone .....	607,007	July 12	669	145	84	153
Andreoli, Emile and G., London, England. Electrolytic production of amalgams, &c .....	605,835	June 21	1451	333	83	1667
Andreoli, Gabriel. (See Andreoli, Emile and G.)						
Andres, John B., Denver, Colo. Pneumatic mattress .....	611,585	Sept. 27	2665	614	84	2004
Andrew, Charles. (See McCallum, William A., assignor.)						
Andrew, William E., Atlantic Highlands, N. J. Railway-car or other ventilator .....	600,975	Mar. 22	2416	552	82	1731
Andrews, Charles B. (See Baecker, Louis, assignor.)						
Andrews, Daniel L., assignor of one-half to H. A. Brown, Webster, Mass. Reel-holder .....	596,799	Jan. 4	607	140	82	116
Andrews, Frank T., Cleveland, and W. R. Johnson, Burton, Ohio. Boiler-cleaner .....	609,400	Aug. 23	2302	544	84	1151
Andrews, Fred C. (See Nageborn, Wilhelm E., assignor.)						
Andrews, James C., assignor to Bay State Corset Company, Springfield, Mass. Corset .....	613,105	Oct. 25	2671	631	85	558
Andrews, John S. (See Smith, James D., assignor.)						
Andrews, Josiah S., Cloquet, Minn. Folding crate .....	600,822	Mar. 15	2156	492	82	1669
Andrews, Leonard, Hastings, England. Magnetic cut-out .....	614,686	Nov. 22	2619	595	85	1167
Andrews, Mary A. (See Andrews, William D., assignor.)						
Andrews, Reuben H., Short Hills, N. J. Advertising-vehicle .....	597,369	Jan. 11	1574	366 367	82	324
Andrews, Samuel, Wadsworth, Ohio. Swing .....	603,311	May 3	114	27	83	624
Andrews, Thomas, Hamilton, Canada. Toilet and wash stand .....	616,444	Dec. 27	2281	531	85	1911
Andrews, W. A. (See Bagby, Alexander M., assignor.)						
Andrews, William, London, England. Railway-signal .....	612,810	Oct. 25	2179	518	85	461
Andrews, William D., assignor to M. A. Andrews, New York, N. Y. Means for using compressed air for raising water .....	600,708	Mar. 15	1971	449	82	1633
Andrews, William S., Schenectady, N. Y. Steam-engine indicator .....	613,003	Oct. 25	2507	597	85	526
Andriano, Albert K., et al. (See Fallek, Nathan, assignor.)						
Andriveau, Maurice, Paris, France. Water-cock .....	599,158	Feb. 15	1854	439	82	988
Angel, Henry R., assignor of one-half to C. H. Thompson, London, England. Extraction of lead from its ores .....	599,310	Feb. 22	2131	-----	82	1063
Angell, George W., assignor of one-third to W. C. Whitehead, Cleveland, Ohio. Wire-nail machine .....	604,203	May 17	1795	404	83	999
Angell, Joseph T. N., New York, N. Y. Metallic packing .....	609,752	Aug. 23	2994	686	84	1271
Anger, Louis J., assignor to Hawley & Hoops, New York, N. Y. Confection-dipping tray .....	611,987	Oct. 4	678	165	85	133
Angle, Abel R. (See Gorham, George R., assignor.)						
Angle, Edward H., St. Louis, Mo. Dental pliers .....	610,840	Sept. 13	1255	289	84	1702
Anglo-American Provision Company. (See Cowin, Frederick, assignor.)						
Anglo-American Reduction Company. (See James and Jordan, assignors.)						
Anglo-American Reduction Company. (See Jordan, Thomas R., assignor.)						
Ankarstolpe, Nels, Lund, Tex. Plow .....	607,207	July 12	1065	231	84	222
Ann Arbor Manufacturing Company. (See Bullis, Justin B., assignor.)						
Annable, Warren W., Grand Rapids, Mich., assignor to Consolidated Car Fender Company, Providence, R. I. Car-fender .....	607,977	July 26	2682	572	84	572
Annable, Warren W., assignor of one-half to G. S. Johnson, Grand Rapids, Mich. Driving-gear for bicycles .....	614,071	Nov. 8	1472	338	85	920
Annisson, Frederick G., assignor to Publishing, Advertising and Trading Syndicate, Limited, London, England. Enameled paper and compound used to enamel same .....	601,927	Apr. 5	578	-----	83	110
Annisson, Frederick G., assignor to Publishing, Advertising and Trading Syndicate, Limited, London, England. Coating fabrics or permeable materials with nitrocellulose compounds and product produced thereby .....	602,797	Apr. 19	2091	-----	83	426
Anschutz, Louis F., Ansonia, Conn. Mucilage-bottle .....	597,350	Jan. 11	1338	359	82	316
Ansley, Charles L., assignor of one-fourth to C. G. Arthur, Atlanta, Ga. Air-brake .....	608,095	July 26	2896	620	84	617
Ansley, Frank, Medical Lake, Wash. Strainer for milk-pails .....	603,673	May 10	791	174	83	771
Ansley, George W., Medical Lake, assignor of one-half to G. B. Jordan, Spokane, and A. L. Smalley, Davenport, Wash. Stapling-machine .....	610,116	Aug. 30	3561	825	84	1409
Anson, Octavius H. S., Madison, Wis. Perpetual calendar .....	604,649	May 24	2614	598	83	1173
Ansonia Clock Company. (See Davies, Walter D., assignor.)						
Anthion Christensen Belting Company. (See Christensen, Anthion, assignor.)						
Anthion, Johann, Flensburg, Germany. Machinery for making crozes for curved cask-headings .....	610,012	Aug. 30	3404	789	84	1377
Anthion, Johann, Flensburg, Germany. Machinery for hooping casks, barrels, or the like .....	610,221	Sept. 6	149	33, 34	84	1471
Anthony, Albert H. (See Smith and Anthony.)						
Anthony, Albert J., Big Run, assignor of one-third to C. U. Anthony, Dubois, Pa. Cutter-bar .....	615,233	Dec. 6	2	1	85	1411
Anthony, Alonzo D., Groton, N. Y. Spring-hinge .....	604,165	May 17	1717	387	83	983



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Anthony, C. U. (See Anthony, Albert J., assignor.)						
Anthony, Charles E., Denver, Colo., assignor, by mesne assignments, to Western Elat- erite Manufacturing Company, of Colorado. Paint	616,047	Dec. 13	1514	-----	85	1721
Anthony, Edgar W., Boston, Mass. Flushing-valve for closet-tanks	598,668	Feb. 8	1034	249	82	815
Anthony, John M., Hartford, Conn. Piston-packing	600,350	Mar. 8	1336	306	82	1494
Anthony, Kohath, Altoona, Pa. Window-sash	616,283	Dec. 20	1986	462	85	1832
Anthony Wayne Manufacturing Company. (See Wichman, Albert C. F., assignor.)						
Antico, Ercole. (See Magini, Folli, and Antico.)						
Antidel, Egbert M., and G. M. Lortz, Utica, N. Y. Folding bed, couch, or crib	615,008	Nov. 29	3222	741	85	1302
Antomarchi, Joseph, assignor of one-half to H. N. Street, Gloster, Miss. Apparatus for collecting tickets.	599,159	Feb. 15	1856	439 440	82	988
Antrim, John G., Traer, Iowa. Furnace-door opener	611,310	Sept. 27	2138	494	84	1906
Anzelewitz, Abraham, New York, N. Y. Gas-burner	597,600	Jan. 18	1971	459	82	419
Apgar, Peter E., Philadelphia, Pa. Device for slicing vegetables	598,236	Feb. 1	289	65	82	657
Appel, Charles L., Muscatine, Iowa. Button-grinding machine	604,952	May 31	3135	721	83	1293
Appell, Jacob, Milwaukee, assignor of one-half to M. Lehnerer, Waukesha, Wis. Window- Apperley, Ebenezer, Stroud, England. Combination book-marker, leaf-holder, and pa- per-knife	602,712	Apr. 19	1946	442	83	399
	597,796	Jan. 25	2323	541	82	501
Apperson, Elmer. (See Haynes and Apperson.)						
Apperson, Thomas F., and C. H. Dorsey, Poetry, Tex. Roller-shelving and cloth-meas- urer combined	610,510	Sept. 6	695	156 157	84	1572
Appert, Leon, Paris, France. Manufacture of glass with metallic netting embedded therein	608,096	July 26	2899	621	84	618
Appleby, Charles O., assignor of one-half to M. J. Hotchkiss, New Haven, Conn. Pow- der-divider	598,970	Feb. 15	1543	367	82	929
Appleby, Edwin, assignor of one-half to H. F. Harris, London, England. Acetylene-gas apparatus	598,837	Feb. 8	1297	314	82	866
Appleby, John F., Chicago, assignor to Harvester King Company, Harvey, Ill. Har- vester-reel-adjusting mechanism	598,652	Feb. 8	1002	242	82	810
Appleby, John F., assignor, by mesne assignments, to D. Kelly, Chicago, Ill. Harvester	601,866	Apr. 5	478	97, 98	83	89
Applegate, Clarence, assignor of one-half to McDonald Brothers, Evansville, Ind. Water- purifier	603,548	May 3	565	124	83	710
Applegate, Clarence, assignor of seven-eighths to P. Emrich, A. Eichel, and McDonald Brothers, Evansville, Ind. Feed-water heater	615,517	Dec. 6	564	129	85	1521
Appleton, James, Salford, England. Steam-actuated valve	601,227	Mar. 29	2851	651	82	1841
Apthorp, Octavie L., Boston, Mass. Collapsible clothes and waste receptacle	608,998	Aug. 16	1551	369	84	989
Arakelian, Melkon L., New York, N. Y. Fermented milk food and preserving same. (Reissue)	11,691	Sept. 13	1333	-----	84	1719
Arbaugh, Leonard. (See Pearce and Arbaugh.)						
Arbecam, H. P., et al. (See Snowman, William W., assignor.)						
Arbuckle Brothers. (See Smyser, Henry E., assignor.)						
Archdeacon, John P., assignor of one-half to F. L. Whitcomb, Boston, Mass. Axleless sprocket for bicycles	605,214	June 7	288	66, 67	83	1405
Archdeacon, John P., assignor of one-half to F. L. Whitcomb, Boston, Mass. Separator for ball-bearings	612,390	Oct. 18	1411	341	85	296
Archer, Frank M., assignor to S. Silberberg, New York, N. Y. Folding bed	616,048	Dec. 13	1514	354	85	1721
Archer, Frank M., assignor to S. Silberberg, New York, N. Y. Electrical bedbug-exten- minator	616,049	Dec. 13	1516	354	85	1721
Archer, R. N. (See Dubé, Louis T.)						
Archibald, Edmund G. (See Dodson and Archibald.)						
Archibald, James, Buckie, Scotland. Puzzle	603,217	Apr. 26	2803	640	83	577
Arduser, Christian. (See O'Neill, Frank, assignor.)						
Argall, Philip, Denver, Colo. Apparatus for roasting and drying ores	612,185	Oct. 11	1047	251 252	85	215
Argall, Philip, Denver, Colo. Means for operating rotary furnaces for roasting and dry- ing ores	612,186	Oct. 11	1049	252	85	215
Arkell, Alfred, Headingly, Canada. Fastener for bags	603,674	May 10	792	174	83	771
Arkins, James S., Menominee, Mich. Air-hose coupling	598,758	Feb. 8	1181	283 284	82	843
Arlt, Conrad, Berlin, Germany. Electrical signaling apparatus for transmitting com- mands	608,246	Aug. 2	138	34	84	682
Arlt, Fritz, Perlen, Switzerland. Apparatus for making soap	605,988	June 21	1759	403	83	1723
Arlington Manufacturing Company. (See France, Joseph R., assignor.)						
Arlington Manufacturing Company. (See Goetter, Hermann, assignor.)						
Armanet, Esteban, Mexico. Apparatus for generating acetylene gas	603,073	Apr. 26	2570	583	83	532
Armellini, Alessandro. (See Kerbs and Armellini.)						
Armes, Charles M. (See Evans and Armes.)						
Armitage, James. (See Stone, Columbus, assignor.)						
Armor, George G. (See Meredith, Albert M., assignor.)						
Armour, James G., and C. Southorn, Liverpool, England. Chair	606,112	June 21	1993	457 458	83	1767
Arms, Chester E. (See Arms, John and C. E.)						
Arms, Elizabeth S. (See Markie, Emma, assignor.)						
Arms, John and C. E., South Lyon, Mich. Dehorning-clipper	610,669	Sept. 13	954	220	84	1641
Armstead, Michael J., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopdale, Mass. Locking-clamp for heddle-bars	603,808	May 10	1023	228	83	816
Armstrong, Andrew, et al. (See Little, Alexander F., assignor.)						
Armstrong, Andrew J., Chattanooga, Tenn. Railway-signal	599,521	Feb. 22	2539	597	82	1141
Armstrong, B. L. (See Seward, Edward C., assignor.)						
Armstrong, Barnett C., Burlington, Iowa. Wagon-tongue support	616,050	Dec. 13	1517	354	85	1722
Armstrong, Charles, Cambridge, and F. J. Knights, London, England. Corking-machine	613,789	Nov. 8	1010	230 231	85	829
Armstrong, Charles C., Columbus, Ohio. Bicycle-lamp	614,315	Nov. 15	1926	445	85	1026
Armstrong, Edward E. (See Reese and Armstrong.)						
Armstrong, Ernest, Camden, N. J., assignor to J. S. Latta and J. J. Mulconroy, Philadel- phia, Pa. Stuffing-box	606,754	July 5	223	48	84	46
Armstrong, Ezra A., and W. N. Willard, assignors of one-third to E. D. Stewart, Sama- ria, Mich. Folding crate	600,762	Mar. 15	2068	474	82	1653
Armstrong, Harry Y., Hanna City, assignor to J. A. Hunter and R. Strehlow, Peoria, Ill. Mouse-trap	614,430	Nov. 22	2159	497	85	1085
Armstrong, Henry T., Joshua, Tex. Railway-tie	604,183	May 17	1762	397	83	993
Armstrong, James, and W. Heywood, Manchester, England. Combined filter and cooler	607,673	July 19	2110	440 441	84	444
Armstrong, James P., Port Byron, N. Y. Weighing-machine	606,831	July 5	369	77, 78	84	73
Armstrong, James T., and A. Orling, London, England. Igniting device	601,069	Mar. 22	2575	587 588	82	1762



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Armstrong, John, London, England. Treating complex ores	607,817	July 26	2382	506	84	516
Armstrong, John E. and W., Santa Cruz, Cal. Wave-power pumping apparatus	610,013	Aug. 30	3405	789	84	1377
Armstrong Manufacturing Company. (See Crudginton, James F., assignor.)						
Armstrong, Peter, Kankakee, Ill. Convertible hand-car	610,297	Sept. 6	303	65	84	1500
Armstrong, William. (See Armstrong, John E. and W.)						
Armstrong, William H., assignor to Wm. H. Armstrong & Company, Indianapolis, Ind. Stomach-douche	598,407	Feb. 1	570	139	82	711
Armstrong, William R. (See McGowan, John A., assignor.)						
Armstrong, William W. (See Werts, Albert, assignor.)						
Arnegard, Martin O., Mayville, N. D. Governor cut-off for steam-engines	596,565	Jan. 4	184	41, 42	82	37
Arner, William H., Groveland, and E. L. Hendershott, Penfield, N. Y. Milk-can	609,074	Aug. 16	1689	402	84	1014
Arnett, William D., Springfield, Ohio. Seeding-machine	610,316	Sept. 6	336	72	84	1506
Arnfield, Thomas O. (See Chatburn and Ashcroft, assignors.)						
Arnillas, Desiderio P., Santiago, Cuba. Bottle	603,017	Apr. 26	2472	561	83	514
Arnn, McKenzie, assignor to A. H. Blanchard, Bristol, Va. Composition for coloring and preserving wood, &c	601,767	Apr. 5	278		83	54
Arno, Louis F., Jackson, Mich. Screen-door and window-screen	609,723	Aug. 23	2891	676	84	1263
Arno, Oliver H., Boston, Mass. Automatically-operated stringed musical instrument	596,768	Jan. 4	555	127, 128	82	107
Arnold, Amos W. C., Providence, R. I. Cloth-carrier chain for tentering-machines	616,390	Dec. 20	2183	510	85	1871
Arnold, B. W., <i>et al.</i> (See Bestie and Bilger, assignors.)						
Arnold, Benjamin, East Greenwich, R. I. Foot-ball	602,294	Apr. 12	1231	271	83	247
Arnold, Bion J., Chicago, Ill. Magnetic-clutch and power-station system	600,941	Mar. 22	2363	536, 537	82	1721
Arnold, Clinton S., Sing Sing, N. Y. Refreshment-cart	601,928	Apr. 5	580	120, 121	83	110
Arnold, Daniel J. C., New London, Ohio. Metal wheel	609,258	Aug. 16	2054	487	84	1084
Arnold, Frank M., Tampa, Fla. Hand and chain operated tricycle	611,764	Oct. 4	294	70	85	60
Arnold, Frank M., Grand Rapids, Ohio. Axle	609,925	Aug. 30	3232	757	84	1343
Arnold, George. (See Tucker, Smith, assignor.)						
Arnold, Harry I., assignor to K. W. Arnold, Columbia, Tenn., A. Christiansen, and M. L. Arnold, Watervliet, N. Y. Rotary engine	610,161	Sept. 6	1	1	84	1443
Arnold, Harry K., <i>et al.</i> (See Jaberg, Frank A., assignor.)						
Arnold, Henry F., Hyde Park, assignor to American Tool and Machine Company, Boston, Mass. Pulley	606,908	July 5	488	105	84	97
Arnold, Ithamar, assignor of one-half to P. K. Foote, La Fargeville, N. Y. Device for jointing, gaging, and setting saws	604,574	May 24	2495	568	83	1150
Arnold, John, <i>et al.</i> (See Jaberg, Frank A., assignor.)						
Arnold, Katye W., <i>et al.</i> (See Arnold, Harry I., assignor.)						
Arnold, Lucus W., Blackburn, Mo. Rein-support	616,694	Dec. 27	2776	645	85	2004
Arnold, Mary L., <i>et al.</i> (See Arnold, Harry I., assignor.)						
Arnold, Philip W., and J. Keil; said Arnold assignor to W. J. Curry, East Liverpool, Ohio. Rail-joint	604,285	May 17	1941	435	83	1027
Arnold, Putt & Co., <i>et al.</i> (See Jaberg, Frank A., assignor.)						
Arnold, Samuel C. (See Paige and Arnold.)						
Arnold, Samuel C., assignor to National Specialty Manufacturing Company, Denver, Colo. Air-valve	597,666	Jan. 18	2083	488	82	439
Arnold, Thomas. (See Arnold, William B., assignor.)						
Arnold, Thomas E., Florence, assignor of one-half to C. B. Tozier, Cleveland, Ohio. Brush	607,908	July 26	2569	544	84	551
Arnold, William B. (See Pope, Charles H., assignor.)						
Arnold, William B., Abington, Mass. Last	607,978	July 26	2685	572	84	573
Arnold, William B., assignor of one-half to T. Arnold, North Abington, Mass. Heel	598,838	Feb. 8	1298	315	82	866
Arnoldt, Louis, Janesville, Minn. Gate	603,753	May 10	917	203, 204	83	795
Arnot, M. C. (See Hathaway, George M., assignor.)						
Arnot, M. C., <i>et al.</i> (See Gallagher, John C., assignor.)						
Arnot, Matthias C., Elmira, N. Y. Lamp	597,933	Jan. 25	2537	592	82	541
Aronowitz, Louis, New York, N. Y. Construction of ceilings	600,704	Mar. 15	1973	449	82	1634
Arques, Camilo L., San José, Cal. Reading attachment for meters	604,953	May 31	3137	721	83	1293
Arrell, Samuel H., Guthrie, Okla. Ter. Tobacco-cutter	601,332	Mar. 29	3064	690	82	1882
Arrick, Mariam C., Welcome, W. Va. Basket for catching sewing from machines	610,854	Sept. 13	1277	295	84	1707
Arrington, Edward, Wilkesville, Ohio. Bee-catcher	597,934	Jan. 25	2539	593	82	542
Arrouquier, Fredrick E., Worcester, Mass. Straw or strand feeding device	606,619	June 28	2937	681	83	1970
Arrowsmith, George, St. Louis, Mo. Oil-cloth-stock reel	614,048	Nov. 8	1430	329	85	912
Arrowsmith, Mary A., Freehold, N. J. Skein-holder	607,674	July 19	2110	441	84	445
Arthur, Charles G. (See Ansley, Charles L., assignor.)						
Arthur, Charles G. (See Hamar and Arthur.)						
Arthur, John F., New York, N. Y. Milling and gear-cutting attachment	608,822	Aug. '9	1201	281	84	907
Arthur, Samuel. (See Weeden, George E., assignor.)						
Arthur, William, assignor to Newark Watch Case Material Company, Newark, N. J. Watchcase-spring	611,748	Oct. 4	273	65	85	56
Artus, René M., Gonneville, France. Vehicle-brake	604,286	May 17	1942	435	83	1027
Asbell, Henry, assignor of one-half to J. J. Baker, Huntsville, Mo. Gate	609,926	Aug. 30	3233	757	84	1343
Asbestos Manufacturing Company. (See Seltzer, William H., assignor.)						
Asche, Joseph J. (See Palmer, Dolphas D., assignor.)						
Asche, Otto, Paris, France. Testing air-tightness of closed or filled tin cans	597,233	Jan. 11	1344	314	82	276
Aschermann, Heinrich, Cassel, Germany. Simultaneously producing carbids and metals or alloys	612,694	Oct. 18	1953		85	398
Aschermann, Heinrich C., Cassel, Germany. Extracting metals from metallic oxids	610,014	Aug. 30	3407		84	1378
Aschman, Frederick T. (See Collins, James F., assignor.)						
Aseptic Supply Co. (See Miranda, Abraham R., assignor.)						
Ash, Manuel, Forest City, S. D. Wheel-cleaner for vehicles	601,623	Apr. 5	1	1	83	3
Ashburner, William G., Dalton-in-Furness, England. Disinfecting apparatus for water-closets, &c	607,818	July 26	2384	506	84	516
Ashby, John P. (See Barber and Ashby.)						
Ashby, Peter, Valley Falls, assignor to J. Shambow, Woonsocket, R. I. Loom-shuttle	599,051	Feb. 15	1678	397	82	957
Ashcroft, Edgar A., Melbourne, Victoria. Treatment of metalliferous ores and products	600,351	Mar. 8	1337	306	82	1495
Ashcroft, Edgar A., Newcastle, New South Wales. Treating solutions or ores containing zinc for recovering zinc as oxids	602,295	Apr. 12	1232		83	247
Ashcroft, John. (See Chatburn and Ashcroft.)						
Ashcroft Manufacturing Company. (See Edson, Jarvis B., assignor.)						
Ashley, Edward L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Tack-fastened button	607,909	July 26	2569	544	84	551
Ashley, George, assignor of one-third to G. B. Ashley, Jr., New Britain, Conn. Combined door closer and check	605,836	June 21	1453	333	83	1667



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Ashley, George B., Jr. (See Ashley, George, assignor.)						
Ashley, Ralph, Port Republic, assignor to Guarantor Electric Company, Camden, N. J. Storage or secondary battery. (Reissue).....	11,676	July 5	662	144	84	181
Ashley Rivingston. (See Skinner, John, assignor.)						
Ashley, Silas R., assignor of one-half to E. J. Schmidt, Centralia, Mo. Nail-pulling attachment for claw-hammers.....	603,228	Apr. 26	2833	646	83	583
Ashman, David, Baltimore, Md. Power-transmitting device.....	610,151	Aug. 30	3619	841	84	1421
Ashman, Edward, McKeesport, Pa. Nut-lock.....	611,550	Sept. 27	2590	597	84	1991
Ashmore, Samuel C., Caledonia, Miss. Poultry-house.....	603,121	Apr. 26	2652	603	83	549
Ashton, John, <i>et al.</i> (See Ashton, Orrell, assignor.)						
Ashton, John, St. Louis, Mo. Roundabout.....	603,099	Apr. 26	2618	594	83	541
Ashton, Orrell, Milwaukee, Wis. Wire-threading machine.....	603,394	May 3	258	57, 58	83	649
Ashton, Orrell, Lawrence, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Boston, Mass., trustees. Machine for nailing soles to uppers.....	602,184	Apr. 12	1038	227 228 309	83	209
Ashton, Orrell, assignor to J. Ashton, J. Derbyshire, Lawrence, and J. W. Brooks, Petersham, and F. F. Stanley, Boston, Mass., trustees. Shoe-nailing machine.....	602,390	Apr. 12	1384	310 311	83	279
Ashton, Thomas R. R., North Deniliquin, New South Wales. Magazine-firearm.....	597,935	Jan. 25	2540	593	82	542
Ashwell, Benjamin W., Manchester, England. Bicycle-brake.....	609,766	Aug. 30	2956	691	84	1289
Ashwell, Richard P., Newark, N. J. Folding crib.....	609,491	Aug. 23	2480	579	84	1184
Ashwell, William C., New York, N. Y. Wagon-top.....	612,225	Oct. 11	1116	267	85	228
Ashworth, Albert W., assignor to R. and E. Ashworth, St. Cloud, Minn. Toe-clip for bicycle-pedals.....	613,957	Nov. 8	1288	292	85	882
Ashworth, Elijah, <i>et al.</i> (See Buckley, James, assignor.)						
Ashworth, Elizabeth, <i>et al.</i> (See Ashworth, Albert W., assignor.)						
Ashworth, Robert, <i>et al.</i> (See Ashworth, Albert W., assignor.)						
Ashworth, Thomas, Urmston, England. Apparatus for spinning and doubling cotton.....	613,106	Oct. 25	2671	632	85	558
Ashworth, Thomas, Urmston, England. Apparatus for spinning and doubling cotton.....	614,687	Nov. 22	2620	596	85	1167
Aske, Charles B., assignor of one-half to E. A. Forsythe, Duluth, Minn. Game apparatus.....	604,650	May 24	2615	598	83	1173
Askew, David A., Coleraine, N. C. Automatic stock-feeder.....	600,056	Mar. 1	790	180	82	1369
Aslett, Sidney. (See Thompson, Joseph F., assignor.)						
Aslett, George. (See Leech and Aslett.)						
Assman, Albert, Rahway, N. J. Shutter-fastener.....	600,602	Mar. 15	1796	411	82	1600
Assorati, Antenor, New York, N. Y. Wrench.....	608,358	Aug. 2	342	75	84	724
Assorati, Antenor, New York, N. Y. Curtain-fixtue.....	610,732	Sept. 13	1059	243	84	1663
Atchison, Samuel H., San Francisco, Cal. Automatic steam-beer governor and pressure-regulator.....	606,113	June 21	1995	458	83	1768
Athearn, William E., Brooklyn, N. Y. Lightning-arrester.....	606,954	July 5	550	121	84	109
Atherton, Frank, Paterson, N. J. Telegraph-tape.....	610,339	Sept. 6	382	81	84	1513
Atherton, Robert, Paterson, N. J. Warping-machine.....	597,871	Jan. 25	2441	568 569	82	524
Atherton, Robert, Paterson, N. J. Indicator for winding, warping, and beaming machines.....	602,251	Apr. 12	1150	252	83	231
Atherton, Robert, Paterson, N. J. Thread-spooling or quilling machine.....	610,162	Sept. 6	3	1, 2	84	1443
Atherton, Robert, Paterson, N. J. Weft-thread-winding and quilling machine.....	610,340	Sept. 6	382	82	84	1513
Atkin, Fredric. (See Weed and Atkin.)						
Atkins, Elias C. (See Coyle, Robert, assignor.)						
Atkins, Elias C., assignor to E. C. Atkins & Company, Indianapolis, Ind. Saw-handle.....	597,351	Jan. 11	1539	359	82	316
Atkins, George H., assignor to Turner & Seymour Manufacturing Company, Torrington, Conn. Rod for sash-curtains.....	597,551	Jan. 18	1887	438	82	402
Atkins, James, Montclair, N. J. Wire straightening and twisting machine.....	603,868	May 10	1143	257	83	839
Atkins, Joseph L. (See Barus, Carl, assignor.)						
Atkinson, Edward E., assignor of one-third to H. W. Shaw, Ada, Ohio. Device for raising or lowering vehicle-curtains.....	608,314	Aug. 2	257	59	84	706
Atkinson, Frederick W., Chicago, Ill. Electric rail-bond.....	601,458	Mar. 29	3273	739	82	1922
Atkinson, Henry C., Louisville, Ky. Oil-can.....	604,184	May 17	1763	397	83	993
Atkinson, Henry C., assignor to Hammock Oil Can Company, Louisville, Ky. Washing-machine.....	598,759	Feb. 8	1182	284	82	844
Atkinson, John H., Winnebago, Minn. Wrench.....	609,324	Aug. 16	2169	512	84	1107
Atkinson, Mahlon B., assignor of three-fourths to L. S. and C. D. Nicolai and J. Fitzmorris, Washington, D. C. Street-sweeper.....	611,586	Sept. 27	2666	614	84	2004
Atkinson, R. C. (See Manning, Ebenezer F. and J., assignors.)						
Atkinson, Samuel T., <i>et al.</i> (See Moore, Thomas A. L., assignor.)						
Atlantic Rubber Company. (See Doughty, Henry J., assignor.)						
Atsatt, John C. F., Mattapoisett, Mass. Poultry drinking-fountain.....	596,732	Jan. 4	494	113	82	96
Atterbury, Thomas B., Jr. (See Freeble, Thomas M., assignor.)						
Atwater, Harry R. (See Smith and Atwater.)						
Atwater, John L., Western Springs, assignor to Vive Camera Company, Chicago, Ill. Photographic shutter.....	612,476	Oct. 18	1561	374	85	324
Atwell, Benjamin D. (See Wheeler, Houston J., assignor.)						
Atwood, Bertram W., Whitman, Mass. Packing-case for bottles.....	599,311	Feb. 22	2132	506	82	1063
Atwood, Ernest C., Golden Gate, Cal. Truck.....	599,923	Mar. 1	470	106	82	1302
Atwood, George F., Orange, N. J., assignor of one-half to F. M. Hoyt, Stamford, Conn. Mean-pressure indicator or power-gage.....	607,819	July 26	2385	506 507	84	516
Atwood, Irving H., Amesbury, Mass. Coin-controlled apparatus for inflating tires.....	609,259	Aug. 16	2056	488	84	1084
Atwood, James S. (See Brockman, Tandy E., assignor.)						
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Bicycle-lamp.....	608,097	July 26	2901	621	84	618
Atwood, William H., Lincoln, Nebr. Plumb-level.....	609,395	Aug. 16	2288	541	84	1130
Atzberger, Franz X., Lakewood, N. J. Bicycle.....	612,007	Oct. 11	725	174	85	155
Aubeuf, Frank J., Oneida, N. Y. Rake.....	598,690	Feb. 8	1075	259	82	824
Aubry, Joseph A., Battenberg, Germany. Driving mechanism for spinning-mules.....	597,234	Jan. 11	1345	314 315	82	277
Auburn Bolt and Nut Works. (See Morrison, John R., assignor.)						
Aucock, Robert, Utica, N. Y. Manifold-writing tablet.....	601,219	Mar. 22	2833	647	82	1810
Auger, Zenas, Middleborough, Mass. Pulley and device for securing same to shafts.....	610,576	Sept. 13	806	184	84	1610
Augustin, Francis E. (See Augustin, William F., assignor.)						
Augustin, William F., assignor of one-half to F. E. Augustin, Chicago, Ill. Reinforced seam for rubber goods.....	601,421	Mar. 29	3207	723	82	1909
Auker, Stephen E., Rushville, Nebr. Gate.....	599,583	Feb. 22	2655	622	82	1164
Aull Brothers Paper and Box Company. (See Aull, Francis N., assignor.)						
Aull, Francis N., assignor to Aull Brothers Paper and Box Company, Dayton, Ohio. Paper pail or vessel.....	612,637	Oct. 18	1859	440	85	380
Ault, Ellis A. (See Mason, Otis J., assignor.)						
Auman, Henry, Kendallville, Ind. Refrigerating apparatus.....	598,621	Feb. 8	946	227	82	800
Aungst, William S., Alliance, Ohio. Hose holder or support.....	596,689	Jan. 4	411	92, 93	82	81



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Auria, Luigi d', Philadelphia, Pa., assignor to d'Auria Pumping Engine Company, Camden, N. J. Pump	603,884	May 10	1171	{ 264 265	{ 83	844
Auriol, Paul, Paris, France. Motor	602,652	Apr. 19	1834	418	83	377
Aurora Arc Lamp Manufacturing Company. (See Tepel, Christian, assignor.)						
Aurora Automatic Machinery Company. (See Levedahl, Axel, assignor.)						
Ausenheimer, Jacob F., Cincinnati, Ohio, assignor of one-half to G. R. Messner. Compound for pitching packages.	601,611	Mar. 29	3514	-----	82	1971
Ausführungen für Eisenbahn-Oberbau-Abtheilung Stossfangschiene Siegm Eppenstein. (See Vietor, Alwin, assignor.)						
Austen, Charles T. (See Craig and Austen.)						
Austen, Charles T., London, England. Bicycle-wheel-assembling machine	615,780	Dec. 13	1032	{ 242 243 244	{ 85	1627
Austin Cartridge Company. (See Morris, William L., assignor.)						
Austin, Dow B., Grand Rapids, Mich. Bicycle-stand	614,431	Nov. 22	2160	497	85	1085
Austin, Dow B., Grand Rapids, Mich. Bicycle-support	614,432	Nov. 22	2161	497	85	1085
Austin, Dow B., Grand Rapids, Mich. Lock for bicycle-stands	614,433	Nov. 22	2163	497	85	1086
Austin, Frederick C. (See Borrmann, William, assignor.)						
Austin, Frederick C. (See Bunnell, Morton G., assignor.)						
Austin, Frederick C. (See Clark, Joseph H., assignor.)						
Austin, Frederick C. (See Howland, Arthur H., assignor.)						
Austin, Frederick C. (See Rhodes, Jay B., assignor.)						
Austin, George. (See Junod, Paul, assignor.)						
Austin, John S., Racine, Wis. Vehicle-seat	614,281	Nov. 15	1872	432	85	1015
Austin, John T., Detroit, Mich. Marine governor	613,375	Nov. 8	1165	267	85	859
Austin Separator Company. (See Wormer, Frederick F., assignor.)						
Austin, Stephen J., Terre Haute, Ind. Railway oblique crossing	607,324	July 12	1290	{ 275 276	{ 84	266
Austin, Stewart, Walkerville, Canada. Car-axle lubricator	601,867	Apr. 5	481	98	83	89
Austin, Thomas, Alveston, England. Device for preserving or restoring the shape of boots or shoes	599,091	Feb. 15	1735	411	82	967
Austin, William J., assignor to Milwaukee Rail Joint and Welding Company, Milwaukee, Wis. Rail-joint and forming same. (Reissue)	11,653	Mar. 8	1625	371	82	1549
Austin, William L., et al. (See Vauclain, Samuel M., assignor.)						
Austin, William L., assignor to himself, G. Burnham, E. H. Williams, W. P. Henszey, J. H. Converse, S. M. Vauclain, A. B. Johnson, and G. Burnham, Jr., Philadelphia, Pa. Railway-car	605,305	June 7	474	{ 106 107	{ 83	1442
Auten, Benjamin C., Princeville, Ill. Musical instrument	604,954	May 31	3138	{ 721 722	{ 83	1293
Authier, Peter, Jefferson, S. D. Device for holding hogs	608,632	Aug. 9	832	192	84	838
Autio, Leander, Fitchburg, Mass. Tool for fixing loom-reeds	600,504	Mar. 15	1632	372	82	1569
Automatic Gem and Gold Separator Syndicate. (See Lockhart, William S., assignor.)						
Automatic Indicator Company. (See Hackmann, Frederick, assignor.)						
Automatic Photo Printing Syndicate. (See Friese-Greene, William, assignor.)						
Automatic Roller Printer Company. (See Martin, Albert R., assignor.)						
Automatic Rotary Stoking Grate Company. (See Tucker, Benjamin W., assignor.)						
Automatic Switch Company of Baltimore City. (See Whittingham, George H., assignor.)						
Automatic Weighing, Lifting, and Grip Machine Company. (See Merry, George G. S., assignor.)						
Autry, James A., Pine Grove, Miss. Combined seed-planter and fertilizer-distributer	611,805	Oct. 4	364	88	85	73
Auxier, William, Staffordville, Ky. Plow	603,495	May 3	468	104	83	690
Avery, Andrew J., Dunkirk, N. Y. Pipe-coupling	603,720	May 10	863	192	83	785
Avery, Andrew J., Dunkirk, N. Y. Pipe-coupling	603,721	May 10	864	192	83	785
Avery, Frederick C., Toledo, Ohio. Flush joint for tubular-frame constructions	603,244	May 3	2	1	83	601
Avery, Frederick C., Toledo, Ohio. Bicycle-saddle	604,955	May 31	3140	722	83	1294
Avery, George C., assignor to B. F. Avery & Sons, Louisville, Ky. Cultivator	611,551	Sept. 27	2590	597	84	1991
Avery, John, assignor of one-half to G. W. Hudson, Galesburg, Ill. Mail-box	605,837	June 21	1455	333	83	1667
Avery, William G., Cleveland, Ohio. Mortar-hod	604,287	May 17	1944	436	83	1028
Avery, William H. (See Griffiths, George, assignor.)						
Avery, William N., San José, Cal., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental fountain-cuspidor	612,655	Oct. 18	1892	448	85	386
Avey, William H., Hedgesville, W. Va. Thill-support	597,094	Jan. 11	1128	266	82	236
Avil, Francis S., Philadelphia, Pa. Dental plugger	605,171	June 7	202	51	83	1389
Axelson, Charles F., and G. A. and R. W. Gunn, Los Angeles, Cal. Match-igniting device	602,593	Apr. 19	1726	393	83	356
Axelson, Gustavus A. (See Axelson and Gunn.)						
Axene, David W., Kansas City, Mo. Coat and vest holder	608,633	Aug. 9	833	192	84	898
Axtell, Frank C. (See Stevens and Axtell.)						
Ayer, Albert E., Boston, Mass., assignor, by mesne assignments, to Justice Leather Measuring Machine Company, of Maine. Leather-measuring machine	608,538	Aug. 2	649	{ 146 147	{ 84	784
Ayers, William C., Plymouth, N. C. Railway-switch	603,372	May 3	219	49	83	643
Aylworth, Daniel W., Chicago, Ill. Gate for wire fences	598,069	Feb. 1	1	1	82	603
Aylworth, Rosetta M. (See Leslie, Noble B., assignor.)						
Aymer, Robert, Colorado City, and D. J. Nevill, Denver, Colo. Filter-frame	610,596	Sept. 13	846	194	84	1619
Ayotte, Eugene. (See Nicol and Ayotte.)						
Ayres, Alexander C., et al. (See Heaton, John W., assignor.)						
Ayres, Charles, New York, N. Y. Globe-holder	613,107	Oct. 25	2673	632	85	558
Ayres, Thomas H., and O. D. Elbel, South Bend, Ind. Corner-joint for screen-doors	612,452	Oct. 18	1517	365	85	316
Ayres, William E., et al. (See Snowman, William W., assignor.)						
Ayres, William J., Bryan, Ohio. Bag holder or clamp	605,838	June 21	1457	334	83	1668
Ayrhart, John H., Dedham, Iowa. Riding and folding harrow	607,008	July 12	671	{ 145 146	{ 84	153
B. F. Avery & Sons. (See Avery, George C., assignor.)						
B. F. Goodrich Company. (See Dunn, John W., assignor.)						
Baatz, Albert. (See Baatz, August and A.)						
Baatz, August and A., Butternut, Wis. Horse-detacher	609,724	Aug. 23	2893	676	84	1263
Babbidge, Frederick W., Rockland, Me. Toy	606,955	July 5	551	121	84	109
Babcock, George W., Brockport, N. Y. Sully or riding attachment for agricultural implements	613,051	Oct. 25	2585	{ 613 614	{ 85	541
Babcock, Henry D., Leonardsville, assignor, by mesne assignments, to National Harrow Company, Utica, N. Y. Harrow	604,288	May 17	1946	436	83	1028
Babcock, Henry D., Leonardsville, N. Y., assignor to Standard Harrow Company. Spike-tooth harrow-bar	604,223	May 17	1829	410	83	1005
Babcock, Henry D., Leonardsville, N. Y., assignor to Standard Harrow Company. Harrow	604,289	May 17	1947	436	83	1028
Babcock, Ira J., New York, N. Y. Lock	615,206	Nov. 29	3621	833	85	1379



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Babcock, Ira J., New York, N. Y. Lock	615,207	Nov. 29	3626	833	85	1380
Babcock, Theodore H., Jr., New York, N. Y. Ironing-board	613,437	Nov. 1	414	834 94	85	695
Babcock, Washington I., Chicago, Ill., S. T. and C. H. Wellman, and J. W. Seaver, Cleveland, Ohio. Ship-building plant	606,497	June 28	2713	625	83	1927
Babcock, William H., administrator. (See Pratt, William T. C.)						
Bach, Einar S., Colorado City, Colo. Receptacle for good and burned matches	610,883	Sept. 20	1339	306	84	1735
Bach, Maximilian, Pittsburg, Pa. Folding basket	610,787	Sept. 13	1170	270	84	1685
Bachert, Max, New York, N. Y., and D. W. O'Neil, Newark, N. J., assignors to Electric Fireproofing Company, New York, N. Y. Preserved wood and preparing same	602,713	Apr. 19	1947	442 443	83	399
Backhaus, Alexander, Königsberg, Germany. Preparing cows' milk for infants	597,378	Jan. 18	1595		82	345
Backhaus, Alexander, Königsberg, Germany. Bottle-stopper	601,698	Apr. 5	130	26	83	28
Backman, John P., Chicago, Ill. Steam-engine	612,695	Oct. 18	1953	463	85	398
Backstrom, Charles A., New York, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Centrifugal separator	597,253	Jan. 11	1378	322	82	283
Backus, Grosvenor H. (See Turner and Leslie, assignors.)						
Backus, John C., assignor of one-third to W. H. Hungerford, Smethport, Pa. Locking coat-hook	602,296	Apr. 12	1233	271	83	248
Backus, Lawrence T., Atchison, Kans. Cash register and indicator	596,975	Jan. 11	906	214	82	193
Bacon, Clovis N., assignor to T. A. Dodge, trustee, Boston, Mass. Steam-boiler furnace	600,603	Mar. 15	1797	411 412	82	1600
Bacon, George M. (See Skinner and Bacon.)						
Bade, Heinrich A. L., Clyde, Ohio. Mop-holder	604,107	May 17	1620	364	83	965
Badeau, Charles C., Schenectady, N. Y. Electric switch	605,067	June 7	1	1	83	1353
Badeker, John, Omaha, Nebr., assignor to T. W. Mitchell, Missouri Valley, Iowa, and W. Everett, Lyons, Nebr. Metallic packing	606,638	July 5	2	1	84	3
Badger, William. (See Duckett and Badger.)						
Badische Anilin and Soda Fabrik. (See Bohn, René, assignor.)						
Badische Anilin and Soda Fabrik. (See Isler, Max H., assignor.)						
Badische Anilin and Soda Fabrik. (See Julius, Paul, assignor.)						
Badische Anilin and Soda Fabrik. (See Schmid and Rey, assignors.)						
Badische Anilin and Soda Fabrik. (See Wolf, Hermann, assignor.)						
Badoni, Massimiliano, assignor to J. Férrisse, Geneva, Switzerland. Lock for bicycles	616,051	Dec. 13	1517	355	85	1722
Baecker, Louis, assignor of one-half to C. B. Andrews, Detroit, Mich. Bicycle-tire	599,888	Mar. 1	406	90	82	1290
Baehn, Frederick W., New York, N. Y. Extension curtain-rack	600,682	Mar. 15	1934	440	82	1626
Baeppler, Louis. (See Friedman, Edgar, assignor.)						
Baer, Joseph, Berlin, Germany. Vessel for retailing aerated beverages	611,464	Sept. 27	2436	560 561	84	1961
Baetz, Henry, St. Louis, Mo. Air-heating apparatus	604,013	May 17	1443	923	83	931
Bagby, Alexander M., assignor of one-half to W. A. Andrews, Opelika, Ala. Finishing-tool for wood-shaping machines	602,612	Apr. 19	1759	401	83	363
Bagger, Jacob C. H., Cordesville, S. C. Tire	616,818	Dec. 27	2979	694	85	2047
Baginski, Ferdinand, Allenstein, Germany, assignor to H. H. Keeling, San Francisco, Cal. Pendulum-escapement	603,419	May 3	304	68	83	658
Bagley, Andrew T., Camargo, Ill. Ice-cream freezer	600,571	Mar. 15	1749	399	82	1591
Bagley, Preston B., Peabody, Mass. Rotary buffing-roll	603,357	Mar. 3	193	44	83	639
Bagnall, Edward, Kokomo, Ind. Grinding, smoothing, and polishing glass	613,227	Nov. 1	3	1	85	617
Bagot, Charles F. A. H., assignor to Bagot Pneumatic Tyre Company, Limited, London, England. Manufacture of resilient or pneumatic tires	603,161	Apr. 26	2718	618	83	562
Bagot Pneumatic Tyre Company. (See Bagot, Charles F. A. H., assignor.)						
Bagshawe, Bernal, Headingly, England, assignor to Fox Solid Pressed Steel Company, of Illinois. Wearing-liner for car-trucks	609,178	Aug. 16	1887	449	84	1048
Bahan, Walter W., assignor of one-half to G. W. Clark, New York, N. Y. Cigar-holder	603,051	Apr. 26	2524	574	83	523
Bahnsen, Rudolf, Barmstedt, Germany. Portable balcony	610,517	Sept. 13	709	160	84	1591
Bähr, Gustav, Plauen, Germany. Table	600,942	Mar. 22	2366	537	82	1722
Bailey, Alden L., St. Johnsbury, Vt. Hose-coupling	600,505	Mar. 15	1633	372	82	1570
Bailey, Andrew K. (See Bailey, Jason G. W. and A. K.)						
Bailey, Archibie, Pittsburg, Pa. Chainless bicycle	616,067	Dec. 20	1549	362	85	1745
Bailey, Benjamin F., Ellisville, Miss. Bedstead	613,108	Oct. 25	2674	632	85	559
Bailey, Benjamin F., assignor of one-half to P. W. Shute, Ypsilanti, Mich. Acetylene-gas generator	613,651	Nov. 1	758	174	85	761
Bailey, Charles A., Cromwell, Conn. Pipe-threading machine	598,278	Feb. 1	372	86	82	672
Bailey, Charles A., Cromwell, Conn. Pipe-threading implement	598,279	Feb. 1	374	86	82	672
Bailey, Charles A., Cromwell, Conn. Pipe-threading implement	607,726	July 19	2187	462	84	460
Bailey, Eli, Brantford, Canada. Shears or scissors	613,617	Nov. 1	708	165	85	751
Bailey, Elmer E., and T. A. Monk, Philadelphia, Pa. Air-gun	603,549	May 3	566	125	83	710
Bailey, Frank W., et al. (See Timmis, William, assignor.)						
Bailey, Fred L., St. Louis, Mo. Window-shade adjuster	606,263	June 28	2299	532	83	1846
Bailey, George W., St. Mary's, Ga. Cooking attachment	600,398	Mar. 8	1412	323	82	1509
Bailey, Herbert L., assignor to Bailey Manufacturing Company, Chicago, Ill. Automatic vehicle-brake	603,245	May 3	3	1,2	83	601
Bailey, Jason G. W. and A. K., Poplar Creek, Miss. Cultivator	615,126	Nov. 29	3450	791	85	1344
Bailey, John A., Atlanta, Ga. Lathe attachment	609,767	Aug. 30	2958	692	84	1289
Bailey, John J., New York, N. Y. Ammonia-gas compressor	599,487	Feb. 22	2486	584	82	1131
Bailey, John J., New York, N. Y. Ammonia-gas compressor for ice-machines	612,226	Oct. 11	1117	268	85	228
Bailey, John J., Birmingham, Ala. Shoe-last and stand	613,438	Nov. 1	415	95	85	695
Bailey, John M., Boston, Mass. Process of and apparatus for treating crude oil in manufacturing gas and lubricating-oil	607,417	July 19	1467	311	84	317
Bailey, Leonard C. (See Richey, Charles V., assignor.)						
Bailey Manufacturing Company. (See Bailey, Herbert L., assignor.)						
Bailey, Reginald, Ellwood City, Pa. Rider or carriage for metal-rolling mills	610,015	Aug. 30	3408	790	84	1378
Bailey, Reuben J., Estherville, Iowa. Hog-trough	600,763	Mar. 15	2069	474	82	1653
Bailey, Samuel J. (See Hood and Bailey.)						
Bailey, Samuel R., Amesbury, Mass. Carriage-seat	599,823	Mar. 1	286	64	82	1267
Bailey, Samuel R., Amesbury, Mass. Carriage-spring	610,788	Sept. 13	1171	270	84	1685
Bailey, Thomas, New York, N. Y. Fireproof partition or other wall and ceiling	603,591	May 3	631	140 141	83	724
Bailey, Vernum A. (See Allwood, Thomas, assignor.)						
Bailey, Victor C., assignor to Advance Thresher Company, Battle Creek, Mich. Band-cutter and feeder	599,584	Feb. 22	2657	622	82	1164
Bailey, William E., Beverly, assignor to Essex Shoe Co., Essex, Mass. Boot or shoe nailing machine	598,890	Feb. 15	1391	335 336	82	901
Bailey, William K. (See Stevenson and Bailey.)						
Bailey, William O., London, England. Miter cutting and shooting block	604,290	May 17	1949	437	83	1028
Bailey, William O., London, England. Miter cutting and shooting block	604,291	May 17	1951	437	83	1028



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Bailey, William T., <i>et al.</i> (See Gannoe, Thomas A., assignor.)						
Bailiff, Charles O., Kalamazoo, Mich. Shampoo head-rest	612,008	Oct. 11	725	174	85	155
Baillie, Gertrude S., Philadelphia, Pa., assignor to Seacoast Jetty Company, of New Jersey. Anchor for securing jetties, &c.	601,407	Mar. 29	3185	719	82	1905
Baily, George D., Spiceland, Ind. Folding chair	600,764	Mar. 15	2070	474	82	1653
Baily, John B., Cedar Rapids, Iowa. Ice-shaver	596,566	Jan. 4	185	42	82	37
Bair, Alvin, Tiffin, Ohio. Hot-air furnace	601,115	Mar. 22	2645	604	82	1776
Baird, Archibald L., Sydney, New South Wales. Registering apparatus for cycle-races	610,639	Sept. 13	911	209	84	1632
Baird, Cornelius E. (See Suplee, Henry H., assignor.)						
Baird, James J. (See De Vore, George E., assignor.)						
Baird, John, Uniontown, Pa. Automatic gas shut-off	603,998	May 10	1367	311	83	883
Baird, Luther, Omaha, Nebr. Washing-machine	598,839	Feb. 8	1300	315	82	866
Baird, William H., Burlington, Iowa. Device for swaging gold-plate for crown or bridge work	600,604	Mar. 15	1799	412	82	1601
Baisley, John F., Brooklyn, N. Y. Portière or curtain pole	600,852	Mar. 22	2219	506	82	1695
Baker, A. B. (See Beaudin, Elie, assignor.)						
Baker & Adamson Chemical Company. (See Adamson, George P., assignor.)						
Baker & Adamson Chemical Company. (See Hart, Edward, assignor.)						
Baker, Albert M., Lexington, Ky. Tellurian	610,317	Sept. 6	337	72, 73	84	1506
Baker, Alfred E. (See Smith and Baker.)						
Baker, Arthur E., <i>et al.</i> (See Colburn, Leslie H., assignor.)						
Baker, Bion A., Greeley, Iowa. Gate	612,187	Oct. 11	1050	253	85	215
Baker, Charles A., assignor to Keyes-Baker Cigar Rolling Machine Company, Binghamton, N. Y. Cigar-wrapper-cutting machine	596,467	Jan. 4	1	1	82	3
Baker, Charles C. (See Stouffer, Hiram C., assignor.)						
Baker, Charles E., and P. A. Ritchey, Bloomdale, Ohio. Bull-rope socket-clamp	612,374	Oct. 11	1384	335	85	277
Baker, Cyrus N., Nicholasville, Ky., assignor to C. H. Harnell and W. H. Hearn, Crawfordsville, Ind. Hand seed-planter	607,208	July 12	1068	231	84	223
Baker, David, Kansas City, Mo. Coloring photographs	600,132	Mar. 8	978		82	1425
Baker, David, Sparrow's Point, Md. Pyrometer	602,613	Apr. 19	1760	402	83	363
Baker, David, Sparrow's Point, Md. Casting plant	602,614	Apr. 19	1761	402	83	363
Baker, Dickerson G., Willimantic, Conn. Cop-winding machine	599,488	Feb. 22	2488	584 585 586	82	1132
Baker, Edward E., Pittsburg, Pa. Type-writer cabinet	610,752	Sept. 13	1091	250	84	1669
Baker, Edward E., Pittsburg, Pa. Cabinet for type-writers	613,484	Nov. 1	501	112 113	85	711
Baker, Edward E., Pittsburg, Pa. Roller-shelf	615,127	Nov. 29	3452	792	85	1345
Baker Forge Company. (See Baker, James H., assignor.)						
Baker, Frank P. (See Townsend, George A., assignor.)						
Baker, Frederick, Caulfield, assignor of one-half to A. Wynne, Melbourne, Victoria. Means for securing heads of axes, hammers, &c., to their handles	611,092	Sept. 20	1712	393	84	1807
Baker, Frederick H. (See Baker, Shevlin, and Baker.)						
Baker, George S. (See Carlson and Baker.)						
Baker, George W., Wilmington, Del. Leather-working machine	611,883	Oct. 4	504	121 122 123	85	100
Baker, Gilbert L., Waterford, Cal. Hook	610,884	Sept. 20	1340	306	84	1735
Baker & Hamilton. (See Cowley, William A., assignor.)						
Baker, Herbert, <i>et al.</i> (See Colburn, Leslie H., assignor.)						
Baker, Horace G. (See Baker, Chalker, Baker, and Ferguson.)						
Baker, J. J. (See Asbell, Henry, assignor.)						
Baker, James C., Blue Grass, Iowa. Soap-holder	609,725	Aug. 23	2894	676	84	1263
Baker, James E., assignor of one-half to G. C. Kollock, Madison, Wis. Water-heater	609,866	Aug. 30	3130	731	84	1324
Baker, James H., Allegheny, assignor to Baker Forge Company, Ellwood City, Pa. Brake-lever for railway-cars	607,595	July 19	1970	409	84	419
Baker, James H., Allegheny, assignor to Baker Forge Company, Ellwood City, Pa. Connecting end for brake-rods	607,596	July 19	1971	409	84	419
Baker, James H., G. F. Shevlin, and F. H. Baker, Saratoga Springs, N. Y. Wood-barking machine	612,227	Oct. 11	1120	268	85	229
Baker, James H., G. F. Shevlin, and F. H. Baker, Saratoga Springs, N. Y. Paper-stock refiner	614,316	Nov. 15	1929	445	85	1027
Baker, James M., Glendora, V. A. Chalker, Covina, H. G. Baker, Glendora, and L. O. Ferguson, Los Angeles, Cal. Fruit cleaner, brusher, and washer	616,284	Dec. 20	1988	462 463 465	85	1832
Baker, John, Pasadena, Cal. Bicycle hub and bearing	607,727	July 19	2189	462	84	460
Baker, John F., Vincennes, Ind. Fender for street-cars	597,936	Jan. 25	2542	593 594	82	542
Baker, John G., Philadelphia, Pa. Exposure-meter	616,760	Dec. 27	2883	668	85	2027
Baker, Lorenzo B. (See Phillips, William E., assignor.)						
Baker, Ludwig. (See Wickes and Baker.)						
Baker, Ludwig, assignor to Wickes Brothers, Saginaw, Mich. Feed-water heater and purifier	613,485	Nov. 1	502	113	85	711
Baker, Meta C. (See Russell, William M., assignor.)						
Baker, Oliver P., Pleasant Ridge, N. Y. Holdback device	603,420	May 3	305	69	83	658
Baker, Robert J., assignor of one-third to J. Maisch, Baltimore, Md. Automatic fire-alarm	600,765	Mar. 15	2070	474 475	82	1653
Baker, Samuel A., and M. F. Colby, Springfield, Vt. Centrifugal machine	603,395	May 3	261	58	83	650
Baker, Sanford J., and J. King, Oakland, Me. Scythe	615,518	Dec. 6	565	129	85	1521
Baker, Sidney F., Santa Barbara, Cal. Telescope-box fastener	605,839	June 21	1460	334	83	1668
Baker, Stephen H., Boston, Mass. Air-valve for radiators	600,115	Mar. 1	897	205	82	1390
Baker, Walter C., Cleveland, Ohio. Antifriction-bearing	609,648	Aug. 23	2777	647	84	1240
Baker, Walter C., assignor to American Ball Bearing Company, Cleveland, Ohio. Antifriction-bearing	608,017	July 26	2773	589	84	593
Baker, Walter S., Newark, N. J. Kite	608,823	Aug. 9	1203	281	84	907
Baker, William E., assignor to C. H. Fitz Hugh, Chicago, Ill. Electrical connection	615,420	Dec. 6	385	92	85	1488
Baker, William H., assignor to Bentley & Gerwig Furniture Company, Parkersburg, W. Va. Desk	603,162	Apr. 26	2720	618	83	562
Baker, William J. (See Dearduff, John W., assignor.)						
Baker, William M., Fortville, Ind. Harrow	616,817	Dec. 27	2978	694	85	2046
Baker, William R., assignor to Hitchcock Lamp Company, Watertown, N. Y. Shower-bath apparatus	605,947	Aug. 9	1434	338	84	950
Baker, William S. G., Baltimore, Md. Adjustable collar for shafts	608,398	Aug. 2	414	90	84	738
Baker, William S. G., Baltimore, Md. Electric locomotive	610,982	Sept. 20	1515	847 848	84	1768
Baker, William S. G., Baltimore, Md. Adjustable collar	614,601	Nov. 22	2464	562	85	1138



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Baker, William V. (See Lechner, Francis M., assignor.)						
Baker, Winthrop M., Waltham, Mass. Display-stand	605,622	June 14	1044	240	83	1571
Balcarras, Robert K. (See Dobson, Christopher, assignor.)						
Balch, Lewis, <i>et al.</i> (See Bergh, Jefferson L., assignor.)						
Balcom, Charles, assignor of forty-nine one-hundredths to W. W. Crooker, Lynn, and C. A. L. Brown, Boston, Mass. Boot or shoe	605,623	June 14	1045	240	83	1571
Balding, Clement E., Holton, Kans. Feed-gage for printing-presses	603,246	May 3	7	2	83	602
Baldo, Giovanni B., Triest, Austria-Hungary. Process of and apparatus for electrolyzing sea-water	612,009	Oct. 11	727	174	85	155
Baldwin, Annie W., New York, N. Y. Educational appliance	610,577	Sept. 13	807	184 185	84	1610
Baldwin, Charles E., Brooklyn, N. Y. Puzzle or game apparatus	604,872	May 31	3009	691	83	1268
Baldwin, Charles E., Miami, Ind. Ter. Gate-latch	614,072	Nov. 15	1477	339	85	943
Baldwin, Clara L., National City, Cal. Plant-support	603,754	May 10	918	204	83	796
Baldwin, Frank A., <i>et al.</i> (See Bolton, Orrin B., assignor.)						
Baldwin, Frederic E., New York, N. Y. Sprocket-chain gearing	609,927	Aug. 30	3235	757	84	1344
Baldwin, Frederic E., New York, N. Y. Bicycle-brake	610,298	Sept. 6	304	66	84	1500
Baldwin, George, Indianapolis, Ind. Plow	611,191	Sept. 20	1885	435	84	1839
Baldwin, Henry S., Middletown, Conn. Breech-loading ordnance	614,821	Nov. 29	2850	656 657	85	1229
Baldwin, Lewis A. (See Jones, Joseph R., assignor.)						
Baldwin, Mark D., <i>et al.</i> (See Bolton, Orrin B., assignor.)						
Baldwin, Moses M., Colorado Springs, Colo. Potato-digger	596,647	Jan. 4	334	72	82	66
Baldwin, Rollin A., assignor of one-half to H. Rowland, South Norwalk, Conn. Electric switch	610,016	Aug. 30	3410	790	84	1378
Baldwin, Stephen G., Marion, Ind. Inkstand	611,093	Sept. 20	1714	393 394	84	1807
Baldwin, William D., <i>et al.</i> (See Boening, Ernest, assignor.)						
Baldwin, William J., New York, N. Y. Apparatus for cleaning, &c., bicycle-chains	613,833	Nov. 8	1089	248	85	843
Baldwin, William W., assignor to Cleveland Co-Operative Stove and Hollow Ware Foundry Company, Cleveland, Ohio. Metallic bed	605,660	June 14	1105	255	83	1583
Baldwin, William W., assignor to Cleveland Co-Operative Stove and Hollow Ware Foundry Company, Cleveland, Ohio. Stove	609,768	Aug. 30	2959	692	84	1290
Bale, James, and A. E. Lapham, Paw Paw, Mich. Device for receiving and delivering mail-pouches from moving trains	611,094	Sept. 20	1715	394	84	1807
Bales, Alanson H., Glen Elder, Kans., assignor of one-half to J. C. Kroll, Fairbury, Nebr. Fruit-press	605,267	June 7	406	91	83	1429
Ball, Albert, Claremont, N. H., assignor to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Direct-acting engine	603,358	May 3	194	44	83	639
Ball, Albert, Claremont, N. H., assignor to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Valve mechanism	614,073	Nov. 15	1478	339	85	943
Ball, Albert, and T. Officer, Claremont, N. H., assignors to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Valve mechanism for mining-machines	615,234	Dec. 6	3	1	85	1411
Ball, Albert, and T. Officer, Claremont, N. H., assignors to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Valve mechanism for mining-machines	615,235	Dec. 6	6	1, 2	85	1412
Ball, Albert, and T. Officer, Claremont, N. H., assignors to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Mining-machine	615,236	Dec. 6	8	2	85	1412
Ball and Socket Fastener Company. (See Richardson, William S., assignor.)						
Ball, Bert C. (See Ball, Frank H. and B. C.)						
Ball Brothers Glass Manufacturing Company. (See Ball, Frank C., assignor.)						
Ball Brothers Glass Manufacturing Company. (See Bingham, Alvah L., assignor.)						
Ball, Chester, Belleville, Kans. Gate	603,163	Apr. 26	2721	618 619	83	562
Ball, Cornelius M., Oliville, Ky. Time-lock	603,935	May 10	1257	286	83	861
Ball, Cortland, assignor to M. B. Crist, Indianapolis, Ind. Oil-burner	600,485	Mar. 8	1565	360	82	1536
Ball, David C., St. Louis, Mo., assignor to American Cotton Company, New York, N. Y. Bagging attachment for roller-compresses	602,150	Apr. 12	979	214 215	83	196
Ball, Frank C., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-blowing machine	610,515	Sept. 6	702	158 159	84	1574
Ball, Frank H. and B. C., Plainfield, N. J. Engine-governor	601,009	Mar. 22	2483	564	82	1743
Ball, Fred, <i>et al.</i> (See Platt, Albert L., assignor.)						
Ball, Frederick O., Plainfield, N. J. Engine	611,853	Oct. 4	459	110	85	92
Ball, Frederick O., Plainfield, N. J. Lubricating device for eccentrics	611,854	Oct. 4	460	111	85	92
Ball, Frederick O., Plainfield, N. J. Lubricating device for eccentrics	611,855	Oct. 4	461	111	85	93
Ball, Henry P., Brooklyn, assignor to Ward Leonard Electric Company, Bronxville, N. Y. Rheostat and electric heater	600,057	Mar. 1	791	181	82	1369
Ball, Herman F. (See Waitt and Ball.)						
Ball, Herman F., Cleveland, Ohio. Car-buffer	604,451	May 24	2257	507	83	1107
Ball, Herman F., Cleveland, Ohio, assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	600,667	Mar. 15	1903	433	82	1621
Ball, James H. (See Kneidler, John D., assignor.)						
Ball, Jesse E., Kendrick, Idaho. Attachment for plows	605,172	June 7	204	51	83	1389
Ball, John F., Jr., Turtle Creek, W. Va. Car-coupling	605,624	June 14	1046	240	83	1571
Ball, Philip D., St. Louis, Mo. Valve	609,726	Aug. 23	2895	676	84	1264
Ball, Robert E., Bridgeport, Conn. Adjustable handle-bar	602,421	Apr. 19	1438	325	83	303
Ball, Samuel C., West Pullman, assignor of two-thirds to E. Bihl and C. E. Davis, Chicago, Ill. Nut-lock	612,228	Oct. 11	1121	269	85	229
Ball, William M., Auburn, Nebr. Mole-trap	602,818	Apr. 26	2141	486	83	451
Ballam, De Lacy E., assignor, by mesne assignments, to A. T. Grace, Brooklyn, N. Y. Mop-head	603,999	May 10	1368	311 312	83	883
Ballantyne, Alexander, deceased; M. A. Ballantyne, Lead, S. D., administratrix. Tensioning-machine	611,552	Sept. 27	2592	598 599	84	1991
Ballantyne, Martha A., administratrix. (See Ballantyne, Alexander.)						
Ballard, William O. (See Bright and Ballard.)						
Balliette, Charles H., Carlisle, assignor of one-half to A. B. Dunkle, Steelton, Pa. Railway	609,727	Aug. 23	2896	677	84	1264
Ballin, Constant C., Paris, France. Spring-hub for vehicle-wheels	611,095	Sept. 20	1718	394	84	1807
Ballot, John, London, England. Means for detachably securing bosses or sleeves on shafts	612,302	Oct. 11	1261	304 305 306	85	254
Ballou, Frederick A., Providence, R. I. Button or stud for shirt-bosoms	599,489	Feb. 22	2492	586	82	1132
Ballou, George F., Newark, N. J., assignor to A. B. Dick, Chicago, Ill. Copying-press	612,391	Oct. 18	1412	341	85	296
Ballou, George F., Newark, N. J., assignor to A. B. Dick, Chicago, Ill. Copying-press	612,392	Oct. 18	1414	341	85	296
Ballou, George N., Eugene, N. C. Game-board	613,550	Nov. 1	598	138	85	730
Ballow, William J., Riddleton, Tenn. Combined hat-rack and table	601,422	Mar. 29	3209	724	82	1910
Balph, Charles A., Pittsburg, Pa., and E. P. S. Wright, New York, N. Y. Fireproof floor and ceiling	598,691	Feb. 8	1076	259	82	824



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Balser, Charles F., Springfield, Ill. Attachment for bicycles .....	615,237	Dec. 6	11	2, 3	85	1413
Balser, Josiah L., Sharonville, Ohio. Plumb .....	615,781	Dec. 13	1036	244	85	1628
Baltruweit, Charles, New York, N. Y. Combined wagon, sleigh, and boat .....	609,649	Aug. 23	2778	647 648	84	1240
Baltzell, John T., <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Baltzley, Henry H. (See Clark and Baltzley.)						
Balzer, Stephen M., New York, N. Y., assignor of one-half to W. H. Humphrey, Norfolk, Conn. Type-writing machine .....	608,634	Aug. 9	835	193 194	84	838
Bamart, John, <i>et al.</i> (See Fawcett, John W., assignor.)						
Bamborough, Mason A., Chicago, Ill. Automatic signaling mechanism for locomotives .....	613,109	Oct. 25	2675	632 633	85	559
Bammann, Johann, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Blue tetrazo dye and making same .....	606,181	June 28	2120		83	1809
Bammann, Johann, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Dark-blue tetrazo dye and making same .....	606,264	June 28	2300		83	1846
Bammann, Johann, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Green-blue tetrazo dye .....	611,597	Oct. 4	4		85	3
Bammann, Johann, and M. Ulrich, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue-black azo dye .....	608,999	Aug. 16	1551		84	989
Bancroft, Henry, Church, England. Pneumatic tire for vehicles .....	611,553	Sept. 27	2595	599	84	1992
Bandeen, Andrew and L. E., New Rochester, Ohio. Crusher and pulverizer .....	607,418	July 19	1469	311	84	317
Bandeen, Lloyd E. (See Bandeen, Andrew and L. E.)						
Bandler, Henry, Philadelphia, Pa. Pocket .....	605,840	June 21	1461	334	83	1668
Bandler, Max, New York, N. Y. Neckscarf .....	613,551	Nov. 1	599	138	85	730
Bane, James O., Waseca, Minn. Spring attachment for pumps .....	609,000	Aug. 16	1553	369	84	989
Banes, Henry B., Bristol, Pa. Piano-stool .....	603,617	May 10	693	155	83	751
Banes, Henry B., Bristol, Pa. Cabinet and duet-stool .....	603,618	May 10	695	155	83	751
Banes, Henry B., Bristol, Pa. Chair .....	612,580	Oct. 18	1741	412	85	358
Banfield, Henry, Adelaide, South Australia. Crushing or amalgamating mill .....	614,074	Nov. 15	1479	339	85	943
Banister, Arthur W., Boston, Mass. Apparatus for separating dust, shavings, &c., from air .....	600,300	Mar. 8	1257	287	82	1479
Banker, George W., Keene, N. Y. Vented faucet for cans, &c .....	610,885	Sept. 20	1341	307	84	1735
Banks, George H., Springvale, Me. Shoe-last .....	606,114	June 21	1999	458	83	1768
Banks, George L. (See Kirkpatrick and Banks.)						
Banks, James I. (See Larrabee and Banks.)						
Banks, John W., assignor of one-half to W. G. Huff, Fenton, Mich. Driving mechanism for clothes-wringers .....	611,827	Oct. 4	414	98, 99	85	82
Banks, Thomas L., London, England. Construction of fireproof floors .....	608,098	July 26	2904	622	84	618
Banks, Walter F., assignor to National Electrical Manufacturing Company, Milford, Conn. Electrical signaling system and apparatus .....	604,712	May 31	2737	626 627 628	83	1215
Bannatyne, Archibald, assignor to Waterbury Clock Company, Waterbury, Conn. Clock-bell .....	600,705	Mar. 15	1974	449	82	1634
Bannatyne, Archibald, assignor to Waterbury Clock Company, Waterbury, Conn. Repeating clock .....	610,753	Sept. 13	1092	250	84	1669
Bannister, Alfred F. (See Clark, Roswell M., assignor.)						
Bannister, Loring H., <i>et al.</i> (See Bullis, Frederick O., assignor.)						
Bant, Anthony J., Johannesburg, South African Republic. Rock-drill .....	615,379	Dec. 6	304	71	85	1472
Bantz, Charles A. and O. J., Vermilion county, Ill. Farm-yard derrick .....	614,075	Nov. 15	1481	340	85	943
Bantz, Oliver J. (See Bantz, Charles A. and O. J.)						
Bany, Jacob St. Henry, Ohio. Washing-machine .....	616,068	Dec. 20	1550	362	85	1745
Baranoff, Vladimir de, and E. Hildt, Paris, France. Obtaining sulfur from sulfates .....	616,891	Dec. 20	2185	510	85	1871
Barber Asphalt Paving Company. (See Foster, Charles E., assignor.)						
Barber Asphalt Paving Company. (See Hardy, George, assignor.)						
Barber Asphalt Paving Company. (See Richardson, Clifford, assignor.)						
Barber, Edward A., Watertown, N. Y. Storage battery .....	603,229	Apr. 26	2834	647	83	583
Barber, Edwin L., Larwill, Ind. Spring-heel for boots or shoes .....	614,688	Nov. 22	2622	596	85	1168
Barber, Frederick G., Rochester, Pa. Type-writer attachment .....	605,373	June 7	611	136	83	1468
Barber, Harvey P., Chicago, Ill. Match-safe .....	612,960	Oct. 25	2439	581	85	512
Barber, Jesse, assignor of one-half to T. J. Jones, Wyoming, Ky. Buggy-wrench .....	600,605	Mar. 15	1800	412	82	1601
Barber, Luther A., Buffalo, N. Y. Pianoforte-action .....	604,136	May 17	1669	375	83	973
Barber, Marshall C., Canton, Ohio. Roofing-tile .....	599,312	Feb. 22	2132	506	82	1063
Barber, Melvin, assignor of one-fourth to L. E. Johnson, Oklahoma, Okla. Ter. Bit-stock .....	603,825	May 10	1057	236	83	823
Barber, Melvin, and J. P. Ashby, assignors of one-third to J. B. Rolator, Oklahoma, Okla. Ter. Sash-balance .....	605,215	June 7	289	67	83	1405
Barbour, Charles C., Grand Rapids, assignor of one-fourth to N. E. Staples, Cadillac, Mich. Heating and drying system .....	608,564	Aug. 2	697	158	84	794
Barbour, George O., Rockland, assignor to Eppler Welt Machine Company, Boston, Mass. Heel-seat-trimming machine .....	613,228	Nov. 1	5	2	85	618
Barbour, Lucy A., assignor of one-half to M. J. Darling, Providence, R. I. Dress-raising device .....	614,158	Nov. 15	1634	375	85	972
Barbour, Thomas J., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Coupling for tappet-cams .....	599,824	Mar. 1	287	64	82	1267
Barci, Marsio, New York, N. Y. Non-refillable bottle .....	612,961	Oct. 25	2440	581 582	85	512
Barclay, Nathan P., and C. M. Dayton, Bowling Green, Ky. Shipping-crate .....	611,228	Sept. 27	1979	457	84	1877
Barclay, Robert L., Plattekill, N. Y. Means for manufacturing twist-drills .....	603,462	May 3	395	88	83	677
Bard, George P., Norwich, Conn. Bushing for die-stocks .....	606,774	July 5	268	56	84	54
Bardeen Paper Company. (See Simpson, Samuel W., assignor.)						
Bardsley, Henry, Palmyra, N. J. Machine for seeding raisins .....	606,265	June 28	2301	532 533	83	1847
Barfoot, John A. A., and J. Johnson, Leicester, England. Straight-bar knitting-machine .....	599,435	Feb. 22	2387	561	82	1113
Barger, Robert N., Hopedale, Ill. Gate .....	615,950	Dec. 13	1331	312	85	1683
Barger, William M., Hebron, Nebr. Combined threshold and weather strip .....	600,301	Mar. 8	1258	287	82	1479
Bariffi, Martin. (See Nielsen and Thomsen, assignors.)						
Barker, Alfred K., Boonton, N. J. Apparatus for making chilled-iron castings .....	602,714	Apr. 19	1950	443	83	400
Barker, Charles N., Pittsburg, Pa. Curtain-pole adjuster .....	614,282	Nov. 15	1873	432	85	1016
Barker, Dell, assignor of one-third to H. C. Harrison, Madison, Ind. Tobacco-stemming machine .....	598,471	Feb. 1	686	167	82	733
Barker, Gerald, London, England. Velocipede driving-gear .....	601,824	Apr. 5	382	80	83	72
Barker, Henry. (See Greenleaf and Barker.)						
Barker, Henry C., assignor to J. W. Bowman, E. Dorn, and H. K. Bente, Sedalia, Mo. Brick-machine .....	598,724	Feb. 8	1130	272 273	82	834
Barker, John F., Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, of Massachusetts. Air and gas mixer .....	615,520	Dec. 6	568	130	85	1522
Barker, Ruben F., and M. Corry, Marinette, Wis. Steam set-works for sawmills .....	608,018	July 26	2775	590	84	593



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Barker, Thomas S. (See White and Barker.)						
Barker, Wells T., <i>et al.</i> (See Shields, William E., assignor.)						
Barker, William H., Matamoras, Pa. Vehicle-wheel	612,795	Oct. 18	2142	509	85	435
Barker, William H., Hartford, assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Bicycle-bell	608,146	July 26	2977	639	84	632
Barkey, John L., Toronto, Canada. Can-labeling machine	604,691	May 24	2695	616 617	83	1188
Barkley, Robert J., Chanute, Kans. Egg-carton	616,392	Dec. 20	2187	510 511	85	1872
Barlow, George H. (See Löb, Barlow, and Drabsch.)						
Barlow, Howard E. (See Benham and Barlow.)						
Barlow, John W., Quincy, Ill. Shovel-board for box-wagons	601,010	Mar. 22	2485	565	82	1744
Barlow, Joshua F., Coventry, England. Elastic tire and rim for wheels	612,229	Oct. 11	1122	269	85	229
Barnaby, Charles W., assignor of one-half to Phoenix Iron Works Company, Meadville, Pa. Steam-engine	610,017	Aug. 30	3411	791	84	1378
Barnard, Arthur W., and W. E. Butler, New York, N. Y. Removing paint and varnish	608,948	Aug. 9	1435	338	84	951
Barnard, Calvin B., <i>et al.</i> (See Albury, Frederick L., assignor.)						
Barnard, Charles M., assignor of one-fourth to H. Gaus, St. Louis, Mo. Box for nail-driving machines	614,782	Nov. 22	2777	635	85	1200
Barnard, Gardner P. (See Kinney and Barnard.)						
Barnard, Heman A., assignor to Barnard & Leas Manufacturing Company, Moline, Ill. Rice hulling and polishing machine	606,909	July 5	489	106 107	84	97
Barnard, Henry R., New York, N. Y. Tobacco-pipe	609,260	Aug. 16	2058	488	84	1085
Barnard, Horold L. (See Hill and Barnard.)						
Barnard & Leas Manufacturing Company. (See Barnard, Heman A., assignor.)						
Barnard & Leas Manufacturing Company. (See Cornwall, John B., assignor.)						
Barnard, William, Philadelphia, Pa. Envelop-fastener	606,498	June 28	2715	625	83	1928
Barneck, Alexander. (See Stilwell and Barneck.)						
Barnekov, Charles W., Perth Amboy, N. J. Graduate-glass	598,891	Feb. 15	1393	336	82	901
Barnes, Amos H., Reno, Nev. Lock	605,466	June 14	758	174	83	1519
Barnes, Burr F., Circleville, Ohio. Separable frame for bicycles	607,325	July 12	1292	276	84	267
Barnes, David, Emporia, Kans. Gate	596,733	Jan. 4	495	113	82	96
Barnes, George A., Allegheny, Pa. Hot-air flue	601,542	Mar. 29	3409	773	82	1952
Barnes, George J., assignor of one-half to J. C. Stoebe, Marion, Ind. Non-refillable bottle	615,208	Nov. 29	3630	634	85	1380
Barnes, H. E. W. (See Swartz, Robert E., assignor.)						
Barnes, John E. L. (See Sloan and Barnes.)						
Barnes, John L., Goshen, Mo. Adjustable cartridge capper and decapper	600,706	Mar. 15	1976	450	82	1634
Barnes, John L., Milford, Ind. Sash-lock	610,699	Sept. 13	1001	232	84	1651
Barnes, Joshua F., assignor of one-half to H. B. Gsell, Shannon, Ill. Gate	605,771	June 14	1295	299 300	83	1619
Barnes, Lewis. (See Hopler, Frank H., assignor.)						
Barnes, Loring W. (See Bean, John C., assignor.)						
Barnes, Milo S., Garner, Iowa. Hen's nest	611,884	Oct. 4	508	123	85	101
Barnes, Nathan M., Minneapolis, Minn. Blank-book	600,253	Mar. 8	1183	268	82	1464
Barnes, Norman A., <i>et al.</i> (See Pearce, William, assignor.)						
Barnes, Norman A., <i>et al.</i> (See Pearce and Walker, assignors.)						
Barnett, Charles S., assignor to Columbia National Sand Dredging Company, Washington, D. C. Apparatus for cleaning or separating sand and gravel	615,667	Dec. 13	833	193	85	1589
Barnett, James W. (See Pickett, Mollie, assignor.)						
Barnett, John. (See Spruin and Barnett.)						
Barnett, John F., Jr., Hartford, assignor to R. A. Barnett, Suffield, Conn. Bicycle-wheel	614,283	Nov. 15	1874	433	85	1016
Barnett, John F., Hartford, assignor to R. A. Barnett, Suffield, Conn. Bicycle-wheel	614,284	Nov. 15	1875	433	85	1016
Barnett, Oliver, <i>et al.</i> (See Willatt, Norris F., assignor.)						
Barnett, Robert A. (See Barnett, John F., Jr., assignor.)						
Barnett, Shelton J., assignor of one-half to W. H. Irby, Memphis, Tenn. Hook for key-chains, &c	600,254	Mar. 8	1184	268	82	1464
Barney, Everett H., Springfield, Mass. Hockey-game skate	605,285	June 7	434	98	83	1434
Barney, Everett H., Springfield, Mass. Skate	608,416	Aug. 2	452	101	84	745
Barney, Frank P., Norton, Mass. Self-closing gas-burner	598,892	Feb. 15	1395	336	82	901
Barney & Smith Car Company. (See Tesseymann, Henry, assignor.)						
Barnhardt, William G., Tower City, Pa. Combined thill-coupling and brake	610,467	Sept. 6	613	137	84	1556
Barnhart, Cornelius, Walker Valley, N. Y. Heating-stove	598,840	Feb. 8	1302	315	82	867
Barnhart, Frank, Warren, Pa. Gas burner and heater	616,069	Dec. 20	1552	362	85	1745
Barnhart, Orrin E. (See Evans and Barnhart.)						
Barnhill, Alva H., assignor of one-fourth to J. T. Barnhill, A. M. Richardson, Altoona, J. G. Certain, and R. Gallamore, La Fontaine, Kans. Washing-machine	599,213	Feb. 15	1941	460	82	1004
Barnhill, James T., <i>et al.</i> (See Barnhill, Alva H., assignor.)						
Barnick, Frank L., New York, N. Y. Roller spring-hinge	607,728	July 19	2190	462	84	461
Barnum, William W. (See Smith, Andrew A., assignor.)						
Baron, Alfred L., and J. F. Haffey, Tiffin, Ohio; said Haffey assignor to said Baron. Lantern	597,254	Jan. 11	1379	322	82	283
Baron, Alfred L., and J. F. Haffey, Tiffin, Ohio; said Haffey assignor to said Baron. Lantern	602,206	Apr. 12	1078	236	83	217
Baron, Straus & Co. (See Baron and Ingalls, assignors.)						
Baron, Straus & Co. (See Ingalls and Baron, assignors.)						
Baron, Theodore S. (See Ingalls and Baron.)						
Baron, Theodore S., and W. A. Ingalls, assignors to Baron, Straus & Co., Brooklyn, N. Y. Ribbed-knit pile fabric	603,164	Apr. 26	2723	619	83	563
Baronian, Gregory G. (See Hamalian, George H., assignor.)						
Barr, Archibald, Glasgow, Scotland, and W. Stroud, Leeds, England. Apparatus for producing high vacuums	604,486	May 24	2338	530 531	83	1121
Barr Cash and Package Carrier Company. (See Barr, Samuel W., assignor.)						
Barr, John C., Chicago, Ill. Locking device for bicycles	604,452	May 24	2258	507	83	1107
Barr, John H., Ithaca, N. Y. Bicycle-brake	614,159	Nov. 15	1635	375 376	85	972
Barr, John L. (See Warren, Alpheus F., assignor.)						
Barr, John U., Jr., Pittsburg, assignor of seven-eighths to W. B., E. J., and W. E. Salt, Millvale, Pa. Toy	597,379	Jan. 18	1597	371	82	345
Barr, Lewis, Dayton, Ohio. Arm-rest	607,675	July 19	2111	441	84	445
Barr, Robert J. (See Summers and Barr.)						
Barr, Samuel E., New Brunswick, N. J. Blotter-holder	614,644	Nov. 22	2539	579	85	1153
Barr, Samuel W., Mansfield, Ohio. Rotary engine	599,071	Feb. 15	1709	406	82	962
Barr, Samuel W., assignor to Barr Cash and Package Carrier Company, Mansfield, Ohio. Stop mechanism for store-service apparatus	615,338	Dec. 6	204	50	85	1453
Barr, William A., Washington, D. C. Eraser. (Reissue)	11,682	July 26	3014	648	84	639



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Barr, William C., Jersey City, N. J. Concrete-mixing machine .....	615,519	Dec. 6	566	129 130	85	1521
Barr, William H., Bury, England. Domestic or other filter .....	609,769	Aug. 30	2961	692	84	1290
Barr, William H., Wichita, Kans. Alternating air-pressure system .....	615,668	Dec. 13	835	193	85	1589
Barr, William J., Ashtabula, Ohio. Telephone-transmitter arm and its attachment .....	608,504	Aug. 2	593	132	84	773
Barrall, Paul. (See Curran, Peter, assignor.) .....						
Barrath, Edward, Chicago, Ill. Key-opening can .....	605,456	June 7	747	170	83	1496
Barrath, Edward, Chicago, Ill. Key-opening can .....	605,457	June 7	748	170	83	1496
Barrath, Edward, Chicago, Ill. Sheet-metal can .....	616,865	Dec. 27	3118	722	85	2074
Barratt, William T., assignor to C. Cooper, Bennington, Vt. Cam for knitting-machines. ....	601,408	Mar. 29	3186	719	82	1905
Barreaux, Jules, Pittsburg, Pa. Elevator .....	607,326	July 12	1293	276	84	267
Barrell, Ferdinand, Yonkers, N. Y. Wrench or holding device .....	598,591	Feb. 8	896	215	82	791
Barrett, Albert, assignor of two-thirds to A. Burt and B. C. Haldeman, Kansas City, Mo. Advertising device .....	607,327	July 12	1295	277	84	267
Barrett, Glenn J. (See Fox and Barrett.) .....						
Barrett, Halsey M. (See Stiles, Henry M., assignor.) .....						
Barrett, James H., Grand Rapids, Mich. Refrigerator .....	596,967	Jan. 4	892	210	82	174
Barrett, James, I. Stevens, and R. Sutherland, Melbourne, Victoria. Sprocket-chain .....	601,333	Mar. 29	3065	690	82	1882
Barrett, Joel, and J. H. Wyatt, Washington, Ohio. Tobacco-pouch .....	596,769	Jan. 4	558	128 129	82	107
Barrett, John R., Chicago, Ill. Temporary binder .....	601,994	Apr. 5	707	150	83	133
Barrett, Lucius O., assignor to Goodell Brothers Company, Greenfield, Mass. Mechanic's gage .....	614,070	Nov. 8	1471	338	85	920
Barrett, M. K. (See Tong, George F., assignor.) .....						
Barrett, Michael F., J. H. Lyons, and P. J. F. Tumney, Cleveland, Ohio; said Lyons assignor to said Barrett and Tumney. Stop and waste cock .....	613,052	Oct. 25	2589	614	85	542
Barrett, Richard, Dover, N. J. Faucet .....	600,766	Mar. 15	2073	475	82	1654
Barrett, Wesley J., Marion, N. Y. Non-refillable bottle .....	597,095	Jan. 11	1129	267	82	236
Barrick, William C., New Midway, Md. Wire-fence stay .....	602,819	Apr. 26	2143	486	83	451
Barrie, Robert, Philadelphia, Pa. Tubular-fabric-turning machine .....	604,512	May 24	2379	541	83	1128
Barro, Ferdinand. (See Peraglie and Barro.) .....						
Barrody, John B., assignor of two-thirds to J. Garcia and E. M. Dunton, New York, N. Y. Acetylene-gas generator .....	613,486	Nov. 1	503	113	85	711
Barron, Charles A., R. T. Reid, and J. L. McDonnell, assignors to said Reid and McDonnell, F. C. Cardin, and J. T. Bibb, Tacoma, Wash. Telephone system .....	598,172	Feb. 1	170	40, 41	82	635
Barron, Frank. (See Gadbois, Eli, assignor.) .....						
Barron, George B., Easton, Pa. Switch-operating device .....	606,499	June 28	2716	625 626	83	1928
Barron, George F., Palmyra, N. Y. Bicycle-seat .....	616,178	Dec. 20	1795	414	85	1794
Barron, George F., assignor of one-fourth to D. McPherson, Palmyra, N. Y. Device for measuring and delivering liquids .....	615,288	Dec. 6	12	3	85	1413
Barron, Hugh J., New York, N. Y. Apparatus for regenerating exhaust-steam .....	607,582	July 19	1944	404	84	414
Barron, James E., assignor of one-half to J. J. Hyland and L. W. Kethley, Crystal Springs, Miss. Cotton-cultivator .....	611,192	Sept. 20	1887	436	84	1840
Barron, James P., J. R. Logan, and M. S. Sheridan, Pittsburg, Pa. Machine for measuring wire and indicating its weight .....	616,070	Dec. 20	1553	362 363	85	1745
Barron, James R., Barronvale, Pa. Wagon-brake .....	615,128	Nov. 29	3453	792	85	1345
Barron, Joe, Clarkson, Miss. Quilting-frame .....	599,092	Feb. 15	1736	412	82	968
Barrow, Charles C. and W. L., Shiloh Hill, Ill. Brake for hay-frames .....	611,096	Sept. 20	1719	395	84	1808
Barrow, Kenneth. (See Dunning and Barrow.) .....						
Barrow, Walter L. (See Barrow, Charles C. and W. L.) .....						
Barrows, Elvin S., Clarendon, Vt. Hoof-spreading horseshoe .....	604,014	May 17	1444	323	83	931
Barrows, George S. (See Kellner and Barrows.) .....						
Barrows, George S., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Antivibration lamp for incandescent lights .....	615,239	Dec. 6	14	3	85	1413
Barrows Music Company. (See Bostwick, Kraske, and Lorang, assignors.) .....						
Barrows, Robert B., Clinton, N. Y. Game or puzzle .....	615,469	Dec. 6	474	111	85	1503
Barry & Co., D. J. (See Bellanger, Frank S., assignor.) .....						
Barry, George D. (See Allsup and Barry.) .....						
Barry, Jefferson D., assignor of one-half to A. L. Branson, Marlin, Tex. Tool-handle .....	606,956	July 5	552	121	84	110
Barry, Jefferson D., assignor of one-half to A. L. Branson, Marlin, Tex. Station-indicator .....	616,393	Dec. 20	2188	511	85	1872
Barry, Nicholas, Jr., Muscatine, Iowa. Fire-hydrant .....	606,500	June 28	2718	626	83	1928
Barry, Richard V., assignor of one-half to J. R. Bates, Stuart, Iowa. Automatic check-row corn-planter .....	597,193	Jan. 11	1281	300	82	265
Barsby, John L., et al. (See Rowley, Tracy D., assignor.) .....						
Barschall, Max, Berlin, Germany. Rail-joint for electric railways .....	612,696	Oct. 18	1955	463	85	399
Barsness, Lewis. (See Swenson, Lorens, assignor.) .....						
Barstow, H. M. (See Painter, Arthur, assignor.) .....						
Barstow, William S. (See Schmidt, Gerry, and Barstow.) .....						
Bartell, Reinhold, and J. W. Shields, Philadelphia, Pa. Garment-pocket .....	599,547	Feb. 22	2587	607	82	1151
Barth, Ernest F., New Albany, Ind. Game device .....	614,434	Nov. 22	2164	498	85	1086
Barth, William L. (See Kinney and Barnard, assignors.) .....						
Barthel, Michael, San José, Cal. Wave-motor .....	610,378	Sept. 6	459	100	84	1526
Barthelemy, Aristide L. (See Barthelemy, Louis J. and A. L.) .....						
Barthelemy, Louis J. and A. L., New Orleans, La. Sugar-drier .....	605,772	June 14	1298	300	83	1619
Bartholomew, George R., Ridge, Pa. Pneumatic switch-throwing mechanism .....	605,691	June 14	1162	268 269	83	1594
Bartholomew, Leander, Magnet, Mo. Windmill .....	615,782	Dec. 13	1037	244	85	1628
Bartholomew, Seymour L., Asbury Park, N. J. Hydrant .....	612,941	Oct. 25	2409	574	85	505
Bartholomew, William A., Quincy, Ill. Dust receptacle or pouch .....	608,685	Aug. 9	845	194	84	841
Bartlett, Charles H., Bristol, England. Steelyard .....	603,885	May 10	1174	265	83	845
Bartlett, Charles H., Bristol, England. Apparatus for mixing tea .....	610,018	Aug. 30	3418	791	84	1379
Bartlett, Charles H., Bristol, England. Mill for cutting tea .....	610,019	Aug. 30	3419	792	84	1380
Bartlett, Charles H., Bristol, England. Apparatus for mixing tea .....	613,552	Nov. 1	601	138 139	85	730
Bartlett, Charles H., New Portland, Me. Lathe-chuck for woodworking machinery .....	608,636	Aug. 9	847	194	84	841
Bartlett, Eayre O., and C. V. Petraeus, assignors to said Bartlett and O. H. Picher, Joplin, Mo. Method of and apparatus for purifying and saving metallic fume .....	614,360	Nov. 15	2021	466	85	1044
Bartlett, Eayre O., and C. V. Petraeus, assignors to said Bartlett and O. H. Picher, Joplin, Mo. Method of and apparatus for purifying and saving fumes of lead .....	614,361	Nov. 15	2023	466	85	1045
Bartlett, Fred B. (See Chancey, Frederick F., assignor.) .....						
Bartlett, Granville, Lexington, Ky. Trace-holder .....	605,374	June 7	612	136	83	1468
Bartlett, Ira M. (See Sekora and Bartlett.) .....						
Bartley, William A., Boston, Mass. Supporting-clip for overhead electric conductors .....	608,637	Aug. 9	848	195	84	842
Bartliff, Charles A., St. Louis, Mo. Pump-curb reservoir .....	616,394	Dec. 20	2191	511	85	1872



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Barto, Frank, New York, N. Y. Bicycle-steadying device.....	608,539	Aug. 2	651	147	84	784
Barton, George A. (See Whitcomb and Barton.)						
Barton, Henry B. (See Smith and Barton.)						
Barton, James G. (See Myers, Charles E., assignor.)						
Barton, John H., London, England. Prismatic binocular field or opera glass.....	615,229	Nov. 29	3673	842	85	1389
Barton, Richard T., assignor of one-half to J. Kennedy and W. W. Smith, New Haven, Conn. Folding bed.....	598,841	Feb. 8	1303	315 316	82	867
Barton, Richard T., assignor of one-half to J. Kennedy and W. W. Smith, New Haven, Conn. Street-railway car.....	598,842	Feb. 8	1305	316	82	867
Barton, William, Mathiston, Miss. Portable railway-switch.....	597,380	Jan. 18	1598	371	82	345
Bartow, John H., Paterson, N. J. Bell-ringer.....	599,052	Feb. 15	1678	397	82	957
Bartran, Jennie L., et al. (See Fagg, Benjamin F. B., assignor.)						
Barus, Carl, assignor of one-half to J. L. Atkins, Washington, D. C. Machine for measuring variable angles between rotating bodies.....	599,522	Feb. 22	2541	597	82	1142
Barus, Frederick S., Jersey City, N. J. Machine for forming paper tubes.....	606,402	June 28	2551	591	83	1893
Barzee, Emery S., Minto, assignor of one-half to D. E. Swank, Aumsville, Oreg. Double-acting pump.....	616,819	Dec. 27	2981	695	85	2047
Basch, David, New York, N. Y. Toe-clip for bicycles.....	602,692	Apr. 19	1915	436	83	393
Bascom, A. W. (See Kellum, Seth, assignor.)						
Basden, Alfred. (See Chambers and Basden.)						
Bashaw, John N., Lake Geneva, Wis. Tire-puller.....	612,188	Oct. 11	1051	253	85	216
Baskin, William H., assignor of one-half to W. M. Toomer, Way Cross, Ga. Cotton-gin.....	616,761	Dec. 27	2884	668	85	2027
Basle Chemical Works. (See Brack, Johan J., assignor.)						
Bass, W. Alexander, et al. (See Sterne, Alfred J., assignor.)						
Bassett, Fred H., Waterbury, Conn. Bicycle.....	602,536	Apr. 19	1633	372 373	83	340
Bassett, George B., Buffalo, N. Y. Water-meter.....	608,168	Aug. 2	3	1	84	655
Bassett, James A., Albany, Tex. Back and shoulder brace.....	596,839	Jan. 4	672	155	82	131
Bassett, Liston B., and E. E. Castle, Norwich, N. Y.; said Castle assignor to said Bassett. Sleeping-car.....	606,910	July 5	491	107	84	98
Bassett, Norman C., Lynn, Mass., assignor to B. L. Toquet, Westport, Conn. Protective covering or shield for chain belting.....	613,637	Nov. 1	741	172	85	758
Bassford, Isaac F., Milwaukee, Wis., assignor of one-half to C. F. Meyersieck, St. Louis, Mo. Locking device for wheel-hubs.....	597,757	Jan. 25	2240	521	82	486
Bassford, William K., Jr., Bound Brook, N. J. Commutator-brush holder.....	610,620	Sept. 13	879	202	84	1626
Bassford, William K., Jr., Bound Brook, N. J. Mold for shaping coiled wire.....	616,518	Dec. 27	2440	564	85	1942
Bassford, William K., Jr., Bound Brook, N. J. Mold for forming armature-coils.....	616,519	Dec. 27	2442	564 565	85	1942
Bastian, Charles L., Chicago, Ill. Carbonating apparatus.....	609,867	Aug. 30	3131	731 732	84	1324
Batchelder, Ernest F., Chicago, Ill. Bicycle attachment.....	615,783	Dec. 13	1039	244	85	1628
Batchelder, James H., Tama, Iowa. Egg-case machine.....	616,520	Dec. 27	2444	565 566 567	85	1942
Batcheller, Birney C., Philadelphia, Pa. Apparatus for locating obstructions in tubes.....	602,422	Apr. 19	1439	325	83	304
Batcheller, Birney C., Philadelphia, Pa. Pipe-boring machine.....	607,820	July 26	2388	507	84	517
Batcheller, Josiah W. (See Smith and Batcheller.)						
Batchelor, N. T. (See Brown, William, assignor.)						
Bate, Fenimore C., Cleveland, Ohio. Show-case.....	603,312	May 3	115	27	83	624
Bate & Sons, H. N. (See Nagle, William J., assignor.)						
Bate, William S., Brooklyn, N. Y. Rotary engine.....	602,930	Apr. 26	2336	532	83	489
Bateman, Miles, and W. C. F. Zimmerman, Lone Tree, Iowa. Stump-puller and grubbing-machine.....	599,214	Feb. 15	1942	460 461	82	1004
Bates, Alexander B., Binghamton, N. Y. Packing for pipe-joints, &c.....	613,053	Oct. 25	2592	614	85	542
Bates, Charles F. (See Borton and Bates.)						
Bates, Daniel L. and R. H., Dayton, Ohio. Electric fan.....	613,054	Oct. 25	2592	614 615	85	542
Bates, Eddo V., Lowell, Mass. Carding-engine.....	612,303	Oct. 11	1266	306	85	255
Bates, Francis A., Philadelphia, Pa., assignor to Morse Williams & Company, of Pennsylvania. Valve device.....	599,466	Feb. 22	2445	575	82	1123
Bates, Francis G. (See Raymond, Jean M., assignor.)						
Bates, George A., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine.....	609,770	Aug. 30	2963	693	84	1290
Bates, George A., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Knife for linotype-machines.....	614,602	Nov. 22	2464	562	85	1138
Bates, Jacob R. (See Barry, Richard V., assignor.)						
Bates, James H. (See Hendricks and Denton, assignors.)						
Bates, Lindon W., Chicago, Ill. Hydraulic dredge.....	604,015	May 17	1446	324	83	932
Bates, Lindon W., Chicago, Ill. Method of and apparatus for firing pneumatic ordnance.....	605,841	June 21	1462	335	83	1668
Bates, Lindon W., Chicago, Ill. Electrically-heated charge for cartridges or shells.....	605,842	June 21	1467	336 337	83	1669
Bates, Madison F., Lansing, Mich. Gas-engine.....	607,536	July 19	1854	385 386	84	399
Bates, Peter S., assignor of three-fourths to E. W. Loucks, York, Pa. Letter-box.....	604,956	May 31	3141	722	83	1294
Bates, Russell H. (See Bates, Daniel L. and R. H.)						
Bates, Solomon W., Portland, Me. Machine for making match-cards.....	605,593	June 14	972	225	83	1559
Batey, John, Dublin, Ireland. Mechanism for heating and bending wire spokes.....	599,436	Feb. 22	2389	561	82	1114
Batey, John, Dublin, Ireland. Screw-cutting machine.....	600,133	Mar. 8	979	218	82	1425
Batey, John, Dublin, Ireland. Manufacture of wire spokes for wheels.....	602,931	Apr. 26	2338	533	83	489
Batt, Charles F., New York, N. Y. Cycle-saddle.....	615,129	Nov. 29	3454	792	85	1345
Battersby, James, Philadelphia, Pa. Bicycle retainer and lock.....	602,279	Apr. 12	1202	264	83	242
Batton, Richard H. (See Gregory and Batton.)						
Bauchère, Antoine, Boulogne, France. Kiln for burning lime, cement, &c.....	598,893	Feb. 15	1396	336 337	82	901
Baudoin, Louis M. H. R., and P. E. L. Schribaux, Paris, France. Apparatus for concentrating liquids.....	611,404	Sept. 27	2326	536	84	1941
Bauer, Alonzo F., Fort Madison, Iowa. Earth-auger.....	601,116	Mar. 22	2647	604	82	1776
Bauer, Carl E., assignor, by mesne assignments, to Simplex Railway Appliance Company, Chicago, Ill. Car-truck.....	597,667	Jan. 18	2085	488	82	440
Bauer, Carl E., assignor to Simplex Railway Appliance Company, Chicago, Ill. Bolster.....	601,032	Mar. 22	2516	572	82	1750
Bauer, Carl E., assignor to Simplex Railway Appliance Company, Chicago, Ill. Carbolster.....	604,555	May 24	2457	559	83	1141
Bauer, Carl E., assignor to Simplex Railway Appliance Company, Chicago, Ill. Metal bolster.....	604,556	May 24	2458	559	83	1142
Bauer & Cie. (See Bauer and Busch, assignors.)						
Bauer, Felix, Berlin, and A. Busch, Elberfeld, assignors to Bauer & Cie., Berlin, Germany. Albumen preparation soluble in water.....	601,995	Apr. 5	710		83	134



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Bauer, Peter, Cologne-Ehrenfeld, assignor to Lebach & Company, Gesellschaft mit Beschränkter Haftung, Cologne, Germany. Garbage-wagon	604,573	May 24	2496	568	83	1150
Bauer, William. (See Bickelberger, Frank M., assignor.)						
Bauer, William F., Springfield, Ohio, assignor to Warder, Bushnell & Glessner Company, Springfield, Ohio, and Chicago, Ill. Roller-bearing	603,869	May 10	1145	258	83	839
Bauer, William M., Chicago, Ill. Piano	604,166	May 17	1718	387	83	983
Bauercamper, Charles C. A., Omaha, Nebr. Permutation-padlock	598,971	Feb. 15	1545	367	82	929
Baugh, Thomas R., assignor to J. Neu, Phillipsburg, Mont. Rotary engine	597,872	Jan. 25	2443	569	82	525
Baughner, Joseph T. (See Litchfield and Baughner.)						
Baughn, Nathan, Buffington, Mo. Nut-lock	602,715	Apr. 19	1952	443	83	400
Baulieu, William J., assignor of one-half to J. D. Carpenter, Bridgeport, Conn. Acetylene-gas generator	611,885	Oct. 4	509	123	85	101
Bault, William, <i>et al.</i> (See Greenwood, John T., assignor.)						
Baum, Edward F. (See Jordan and Baum.)						
Baum, Frank W., Springfield, Mass., assignor to F. Wesel Manufacturing Company, New York, N. Y. Make-ready press	609,650	Aug. 23	2780	648	84	1241
Baum, Georg, Rorschach, Switzerland. Embroidering-machine	611,097	Sept. 20	1721	395	84	1808
Baum, Heinrich, Dudweiler, Germany. Safety device for elevators	604,557	May 24	2459	559 560	83	1142
Bauman, Dederick, <i>et al.</i> (See Vollath, George, assignor.)						
Bauman, Henry G., Pittsburg, Pa. Steam and hot-water boiler	609,771	Aug. 30	2965	693	84	1290
Baumann, Gerhard, Monmouth, N. J. Trace-holder	606,639	July 5	4	1	84	3
Baumann, Gustave A., Philadelphia, Pa. Weighing-receptacle	607,010	July 12	677	147	84	154
Baumann, Rudolf, Oerlikon, Switzerland. Self-heating crucible-furnace	608,747	Aug. 9	1035	237	84	878
Baumbach, August, <i>et al.</i> (See Pettes, Moses M., assignor.)						
Baumeister, Leopold, assignor of one-half to J. F. Seifert, Bridgeport, Conn. Cooler for beverages	608,169	Aug. 2	4	1, 2	84	655
Baumgartner, Joseph P., Philadelphia, Pa. Bung	614,603	Nov. 22	2466	563	85	1138
Baur, William, and W. C. Reuss, Chicago, Ill. Clipper-sharpener	614,822	Nov. 29	2853	657	85	1230
Bausch, Edward, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Magnifying-glass	597,758	Jan. 25	2242	521	82	486
Bausch, George, Syracuse, N. Y. Spectacles. (Reissue)	11,663	May 17	2085	467	83	1055
Bausch, Henry, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Mouth and throat mirror	610,518	Sept. 13	709	161	84	1591
Bausch, John J., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-cutting machine	607,009	July 12	673	146 147	84	153
Bausch & Lomb Optical Company. (See Bausch, Edward, assignor.)						
Bausch & Lomb Optical Company. (See Bausch, Henry, assignor.)						
Bausch & Lomb Optical Company. (See Bausch, John J., assignor.)						
Bauschlicher, August, Zbirow, Austria-Hungary, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Process of and apparatus for making acetone	608,019	July 26	2776	591	84	593
Baxter, Berry A., <i>et al.</i> (See Hurst, Willis T., assignor.)						
Baxter, Channing, New York, assignor to A. S. De Veau, Mount Vernon, N. Y. Electrical hinge-contact	615,209	Nov. 29	3633	834	85	1381
Baxter, Charles, Waukesha, Wis. Wire-fence spacer	606,182	June 28	2122	487	83	1809
Baxter, Charles, and A. Schrader, Waukesha, Wis.; said Schrader assignor to said Baxter. Fence-stay-weaving device	606,266	June 28	2303	533	83	1847
Baxter, Edgar I. (See Dailey, Charles E., assignor.)						
Baxter, Edwin D., <i>et al.</i> (See Hurst, Willis T., assignor.)						
Baxter, Emmett C., <i>et al.</i> (See Hurst, Willis T., assignor.)						
Baxter, John. (See Buchanan, Marque, assignor.)						
Baxter, John G., assignor of one-half to C. E. McCollum, Emporia, Kans. Fire-extinguisher and blower for traction-engines	611,598	Oct. 4	5	1	85	4
Baxter, John L., Elora, Tenn. Wire clothes-pin	613,023	Oct. 25	2536	603	85	531
Bay State Corset Company. (See Andrews, James C., assignor.)						
Bay State Electric Heat and Light Company. (See Porter, Edwin F., assignor.)						
Bay State Shoe Machinery Company. (See Bertrand, Joseph E., assignor.)						
Bayer, Joseph C., Portland, Oreg. Tile roofing	600,606	Mar. 15	1800	413	82	1601
Bayer, Philip, Knight's Ferry, Cal. Plow	611,027	Sept. 20	1589	364	84	1782
Bayley, Arthur J., Milwaukee, Wis. Steam-radiator base	614,818	Nov. 22	2844	655	85	1212
Bayley, Charles H., Boston, Mass., assignor to Amazeen Machine Company, Portland, Me. Leather-skiving machine	609,868	Aug. 30	3134	732	84	1325
Bayley, John C. (See Rigg and Bayley.)						
Bayliss, Thomas A., Birmingham, England. Rail-joint	598,070	Feb. 1	2	1	82	603
Bayne, James, <i>et al.</i> (See Lisle, Myron C., assignor.)						
Beach, Clarence E., and H. W. Doughty, Binghamton, N. Y., assignors to Star Electric Company, of New York. Electromechanical striking mechanism	615,057	Nov. 29	3327	764	85	1321
Beach, Daniel L., Chicago, Ill. Feed-indicator for lubricators	601,204	Mar. 22	2801	640	82	1804
Beach, Edward A., Altoona, Pa. Colander	610,789	Sept. 13	1172	270	84	1685
Beach, Henry, London, England. Tire-lever	602,252	Apr. 12	1152	253	83	232
Beach, James E., Routier, Cal. Almond-huller	611,765	Oct. 4	296	71	85	60
Beach, Seth, Toledo, Ohio. Catamenial sack and womb-supporter	599,955	Mar. 1	521	118	82	1311
Beach, William H., Bridgenorth, England. Thermocauter-lancet	615,784	Dec. 13	1040	245	85	1628
Beacock, George, Brockville, Canada. Manufacture of dress-stays	614,823	Nov. 29	2854		85	1230
Beadle, Clayton. (See Cross, Bevan, and Beadle.)						
Beagham, Thomas E., assignor of one-half to H. B. Reid, Shenandoah, Va. Blast-pipe and bridle for blast-furnaces	599,668	Feb. 22	2827	657	82	1199
Beal, Daniel M., Catskill, N. Mex. Ter. Non-refillable bottle	601,117	Mar. 22	2648	604	82	1776
Beale, Lillie G., <i>et al.</i> (See Runser, John, assignor.)						
Beale, Lillie G., <i>et al.</i> (See Stewart, Robert A., assignor.)						
Beale, Oscar J., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Device for generating gear-teeth	616,648	Dec. 27	2678	620	85	1985
Beale, Oscar J., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Device for generating gear-teeth	616,649	Dec. 27	2681	621	85	1986
Beale, William S., <i>et al.</i> (See Runser, John, assignor.)						
Bealer, Harrison K., and H. G. Schelden, Allentown, Pa. Combination-tool	616,179	Dec. 20	1796	415	85	1794
Beall, Benjamin M., Washington, D. C. Commode-chair	601,312	Mar. 29	3033	683	82	1876
Beall, Thomas H. C., Cicero, Ind. Combination fly and burglar proof window or door screen	600,904	Mar. 22	2302	525	82	1709
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Planter	597,485	Jan. 18	1790	414 415	82	386
Beals, Frederick W., assignor of one-half to J. Greene, St. Louis, Mo. Folding attachment for sewing-machines	614,824	Nov. 29	2855	657	85	1230
Beals, Frederick W., assignor of one-half to J. Greene, St. Louis, Mo. Folding attachment for sewing-machines	614,825	Nov. 29	2857	657	85	1230
Beam, Waldo, Cotton Hill, Ill. Cultivator	599,093	Feb. 15	1737	412	82	968



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Beam, Waldo P., Beamington, Ill. Vessel-closure .....	604,359	May 24	2094	469	83	1076
Beamisderfer, Joseph A., Syner, Pa. Wire-fence tool .....	602,932	Apr. 26	2340	534	83	490
Bean, Charles, and G. W. Watson; said Watson assignor to W. A. Heywood and J. C. Stanton, Pawtucket; said Bean assignor of one-half to A. H. Shaw, Providence, R. I. Toy bowling-alley .....	598,894	Feb. 15	1398	337	82	902
Bean, Charles E., assignor of one-half to N. L. Severson, Newton, Mass. Uncurling attachment for sewing-machines .....	599,679	Mar. 1	4	1	82	1218
Bean, Edwin E., Boston, Mass. Shoe-sewing machine .....	612,150	Oct. 11	985	239 240 241	85	203
Bean, Ivory, Brookline, Mass. Valve .....	605,989	June 21	1760	404	83	1723
Bean, James F., Martinez, Cal. Railway signal-light .....	600,214	Mar. 8	1110	253	82	1451
Bean, John, Los Gatos, Cal., and R. Bean, Hudson, Mich. Spraying-nozzle .....	604,873	May 31	3010	691	83	1268
Bean, John C., Cambridge, assignor of one-half to L. W. Barnes, Attleborough, Mass. Bottle .....	615,951	Dec. 13	1333	312	85	1684
Bean, Roscoe. (See Bean, John and R.)						
Beard, J. Shuey, <i>et al.</i> (See White, Charles S., assignor.)						
Beard, John W., Udell, Iowa. Non-refillable bottle .....	605,843	June 21	1471	337	83	1669
Beard, George M., Angola, Ind. Adjustable handle-bar for bicycles .....	601,624	Apr. 5	2	1	83	3
Beard, George M., Angola, Ind. Bicycle crank-shaft .....	602,049	Apr. 12	799	173	83	163
Beard, James W., Bienville, La. Vehicle-wheel hub .....	616,650	Dec. 27	2682	621	85	1986
Beardall, John P., New York, N. Y. Registry-chart .....	613,655	Nov. 8	765	175	85	783
Bearden, George W. (See Allen and Bearden.)						
Beardsell, Arthur W., Milford, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom-shuttle .....	596,840	Jan. 4	673	156	82	131
Beardslee, Nathan S., Warsaw, N. Y. Salt-grainer .....	612,230	Oct. 11	1124	269	85	230
Beardsley, Decker R., Huntsburg, Ohio. Sap-bucket .....	611,229	Sept. 27	1981	457	84	1877
Beardsley, Frank W. (See Tanner, Albert C., assignor.)						
Beardsley, Frank W., Bayonne, N. J., and W. Calhoun, New York, N. Y. Coin-operated bicycle-lock .....	614,826	Nov. 29	2859	658	85	1231
Beardsley, William N., and S. A. North, Bridgeport, Conn., assignors to M. Hartley and M. Graham, New York, N. Y. Bicycle-lantern .....	599,467	Feb. 22	2446	575	82	1123
Bearman, Thomas, Owen Sound, Canada. Lumber circular-saw machine .....	614,924	Nov. 29	3049	699	85	1267
Beasley, Maria E., Chicago, Ill. Means for preventing derailment of railway-cars .....	604,513	May 24	2380	542	83	1128
Beasley, William F., Baltimore, Md. Bag or pouch .....	605,068	June 7	2	1	83	1353
Beasley, William F., Baltimore, Md. Seal .....	607,821	July 26	2391	508	84	517
Beasley, William F., Baltimore, Md. Seal-lock .....	607,822	July 26	2392	508	84	518
Beastow, William H., assignor to S. H. Brooks and R. A. Doxey, Manchester, England. Gear-cutting machine .....	606,700	July 5	116	5, 6	84	25
Beaton & Corbin Manufacturing Company. (See Muus, Arthur H., assignor.)						
Beatty Felting Co. (See Roos, Edward, assignor)						
Beatty, George. (See Altenbaugh, William F., assignor.)						
Beatty, George W. (See Siefkes, John L., assignor.)						
Beatty, James S., Simpsonville, Ky. Washing-machine .....	604,292	May 17	1952	437	83	1029
Beatty, John F., New London, N. C. Folding stool .....	601,118	Mar. 22	2649	605	82	1777
Beatty, Orin C., Cleveland, Ohio. Elevating mechanism .....	605,467	June 14	759	174	83	1519
Beatty, Raymond M., Newark, assignor to J. W. Fiske, Red Bank, N. J. Turnstile .....	614,077	Nov. 15	1485	341	85	944
Beatty, Robert, Tarentum, Pa. Wire-splicing pliers .....	601,929	Apr. 5	582	121	83	110
Beaty, Alfred S. (See O'Neil and Beaty.)						
Beaty, Gilbert M., and F. Mazzei, Denison, Tex. Metal cutter and roller .....	611,599	Oct. 4	6	1, 2	85	4
Beau, Henri, Paris, France. Hydraulic hammer or stamp .....	607,910	July 26	2571	545	84	551
Beauchamp, Francis, London, England. Apparatus for reducing vibration in cycles, &c. .....	615,521	Dec. 6	570	130	85	1522
Beaudette, Eli, and L. Miller, Chippewa Falls, Wis. Apparatus for grinding sickles .....	598,843	Feb. 8	1307	317	82	868
Beaudin, Elie, assignor of one-half to A. B. Baker, Rhinelander, Wis. Ice-velocipede .....	598,760	Feb. 8	1183	284	82	844
Beaudry, Zotique, Lynn, Mass., assignor to Xpedite Machine Company, Berwick, Me. Tool for finishing boot or shoe heels .....	616,432	Dec. 20	2258	527	85	1886
Beaumont, David W., Brooklyn, N. Y. Fountain-pen .....	603,463	May 3	396	89	83	677
Beaumont, Frederick E. B., London, England. Bicycle-brake .....	615,785	Dec. 13	1042	245	85	1629
Beauregard, Victor. (See Gooding and Beauregard.)						
Beauregard, Victor, Boston, and C. S. Gooding, Brookline, assignors, by mesne assignments, to Siegel Labeling Machine Company, Boston, Mass. Bottle-labeling machine .....	614,689	Nov. 22	2623	596 597	85	1168
Beaver, Burd P., Conshohocken, Pa. Inhaler .....	601,228	Mar. 29	2852	651	82	1841
Beaver, James A. (See Rogers, William, assignor.)						
Beavers, Porter, Easonville, Ala. Can-opener .....	604,016	May 17	1447	324	83	932
Bebout, Freeman, and J. H. Brandon, assignors of one-third to J. C. Deidrick, East Liverpool, Ohio. Shaft-hanger .....	606,327	June 28	2410	559	83	1868
Beccaro, Giovanni, Acqui, Italy. Demijohn .....	608,824	Aug. 9	1205	281	84	907
Becher, James A., Mishawaka, Ind. Sewing-cutting machine .....	599,924	Mar. 1	471	106	82	1303
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Printing-press .....	604,293	May 17	1953	438 439	83	1029
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Shifting tympan for printing-presses .....	613,055	Oct. 25	2591	615	85	543
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Shifting tympan for printing-presses .....	613,056	Oct. 25	2598	615 616	85	544
Bechmann, Heinrich. (See Koser, Georg, assignor.)						
Bechtel, Henry, and L. Fritz, Philadelphia, Pa. Signal for steam-boilers .....	601,699	Apr. 5	131	26	83	28
Bechtold, William S., Newark, N. J. Non-refillable bottle .....	597,135	Jan. 11	1190	279	82	248
Bechtold, William S., Newark, N. J. Cuff-button .....	603,396	May 3	262	58	83	650
Bechtoldt, Edward. (See Flindt, Carl J. H., assignor.)						
Beck, Adam H., <i>et al.</i> (See Crane and Esch, assignors.)						
Beck, Charles E., Baltimore, Md. Luggage-carrier for bicycles .....	603,018	Apr. 26	2474	561	83	514
Beck, Edward, Chicago, Ill. Means for hanging and guiding sashes .....	605,069	June 7	4	1, 2	83	1353
Beck, Edwin S., Duncannon, Pa. Propeller .....	612,511	Oct. 18	1611	385	85	334
Beck, George H. (See Robinson, John, assignor.)						
Beck, George W., <i>et al.</i> (See Garnier, Thomas R., assignor.)						
Beck, James L., <i>et al.</i> (See Wright, Edwin, assignor.)						
Beck, Matthias A., Milwaukee, assignor to Milwaukee Sander Manufacturing Company, Green Bay, Wis. Paper-fastening for sander-cylinders .....	597,048	Jan. 11	1036	244 245 486	82	217
Beck, Milton, Racine, Wis. Gas-engine .....	602,820	Apr. 26	2144	487	83	451
Beck, Thomas, Watsonville, Cal. Fruit-drier .....	607,209	July 12	1070	231	84	223
Beck, Warren F., and F. C. Ruffhead, Elmira, N. Y.; said Ruffhead assignor to said Beck. Manifolded pass-book .....	611,600	Oct. 4	8	2	85	4
Becker, Charles G., and M. Osborn, Westfield, Mass. Treating rawhide for use in manufacturing whips .....	608,315	Aug. 2	259	59	84	706
Becker, Charles L., Keokuk, Iowa. Stovepipe or other coupling .....	613,229	Nov. 1	7	2	85	618



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Becker, Francis L., New York, N. Y. Upright-pianoforte action	599,585	Feb. 22	2658	622	82	1165
Becker, Frederick W., Newark, N. J. Key-holder	603,247	May 3	8	2	83	602
Becker, George. (See Becker, John and G.)						
Becker, Heinrich. (See Popp and Becker.)						
Becker, John and G., Hays Mill, Pa. Dumping-wagon	602,151	Apr. 12	982	215	83	197
Becker, John E. M., New York, assignor to E. M. Dunton, Hollis, N. Y. Vehicle-wheel	605,070	June 7	8	2, 3	83	1354
Becker, Nicholas F., Cincinnati, Ohio, assignor to C. Dickinson, Chicago, Ill. Automatic sack filling and sewing machine	608,567	Aug. 9	705	160 161	84	815
Becker, Nicholas F., Cincinnati, Ohio, assignor to C. Dickinson, Chicago, Ill. Bag-holder	608,638	Aug. 9	850	195	84	842
Becker, Nicholas F., Cincinnati, Ohio, assignor to C. Dickinson, Chicago, Ill. Sack-sewing machine	608,639	Aug. 9	851	195 196	84	842
Beckers, Denie, San Pedro, Cal. Tide-water air-compressor	610,790	Sept. 13	1173	270 271	84	1685
Beckett, John C., <i>et al.</i> (See Harris, William, assignor.)						
Beckett, Naomi L., Port Huron, Mich. Ironing-board	598,761	Feb. 8	1185	285	82	844
Beckett, Richard C., West Point, Miss. Car-coupling	610,519	Sept. 13	710	161	84	1591
Beckfield, John C., assignor to Monarch Water Heater Company, Pittsburg, Pa. Water-heater	608,972	Aug. 9	1477	349	84	959
Beckman, Fredrick W., Denver, Colo. Drawing-table	615,130	Nov. 29	3455	792	85	1345
Beckwith, Clarence D., Goodell, Iowa. Hay or grain elevator and distributor	597,096	Jan. 11	1131	267	82	236
Beckwith, Frank W., assignor to himself and H. W. Fairbanks, Chicago, Ill. Wrench	613,230	Nov. 1	8	2	85	618
Beckwith, Grove R., and W. F. McCollum, Minneapolis, assignors to T. Cochran, Jr., St. Paul, Minn. Window-screen	609,134	Aug. 16	1810	430 431	84	1035
Beckwith, James M., Streator, Ill. Display-rack	599,925	Mar. 1	472	106	82	1303
Bedell, Amelia. (See Bedell, Otis T., assignor.)						
Bedell, Otis T., Cairo, N. Y., assignor of one-half to A. Bedell, Pasadena, Cal. Rail-joint bridge	598,844	Feb. 8	1311	317	82	869
Bedells, George W., <i>et al.</i> (See Collieran, Thomas, assignor.)						
Bedford, Hugh L., Bailey, Tenn. Kitchen utensil	601,070	Mar. 22	2577	588	82	1762
Bedford, John M., Millersburg, Ky. Car-door lock	610,427	Sept. 6	539	118	84	1542
Bedford, Seth, Charleston, Mo. Car-coupling and operating device therefor	616,395	Dec. 20	2191	512	85	1872
Bediant, Clayton S., Hudson, Ohio. Evaporating-pan	615,131	Nov. 29	3456	793	85	1346
Bedoret, Victor, Havay, Belgium. Ridge-drill	608,748	Aug. 9	1036	237	84	878
Beebe, Charles S., Racine, Wis. Bicycle	598,237	Feb. 1	290	66	82	657
Beebe, Charles S., Racine, Wis. Bicycle	612,393	Oct. 18	1415	341 342	85	297
Beebe, Dillon, Newark, N. J. Faucet-bung	603,464	May 3	398	89	83	678
Beebe, Dillon, Newark, N. J. Racking or barrel-filling apparatus	607,328	July 12	1296	277 278	84	268
Beebe, Gaylord W., Minneapolis, Minn. Combined paper-weight and pencil-sharpener	597,370	Jan. 11	1577	367	82	324
Beebe, Samuel S., Wisner, Nebr. Bicycle-support	609,869	Aug. 30	3137	733	84	1325
Beebe, Walter H., New York, N. Y. Truck	607,329	July 12	1303	278 279	84	270
Beecher, Thomas, assignor of one-half to H. Fisher, New Haven, Conn. Bicycle-stand	611,672	Oct. 4	142	35	85	31
Beechey, Charles G. (See Moss and Beechey.)						
Beede, Warren H., and A. G. C. Cannon, assignors to C. B. Tuttle, trustee, Lynn, Mass. Veterinary tooth-cutter	599,586	Feb. 22	2660	623	82	1165
Beeghly, David E., Dayton, Ohio. Miter-frame	600,905	Mar. 22	2303	525	82	1710
Beek, Horace W. (See Hoffmann, George E., assignor.)						
Beeker, Charles W. (See Godman, Forgas O., assignor.)						
Beekman, Gerard, New York, N. Y. Back-pedaling brake	609,651	Aug. 23	2781	648 649	84	1241
Beekman, Gerard, New York, N. Y. Safety device for bicycles	609,652	Aug. 23	2783	649 635	84	1241
Beeman, Joseph S., London, England. Machinery for finishing ends of cigarettes	614,783	Nov. 22	2778	636 637	85	1200
Beeman, Joseph S., assignor to C. E. Lambert, C. and W. Butler, London, England. Can-opener	606,701	July 5	119	26	84	26
Beeman, William S., assignor of one-half to G. B. Rinehart, Ashland, Wis. Engine	603,601	May 3	647	145	83	727
Beer, Walter, London, England. Construction of metal bridges	609,001	Aug. 16	1554	369	84	989
Beermann, Henry C. (See Lester, James S., assignor.)						
Beers, Charles L., Scranton, Pa. Protective bank-check system	604,926	May 31	3101	713	83	1285
Beers, Frederic C. (See Beers, Ira F. and F. C.)						
Beers, George E., New York, N. Y. Golf-hose	613,656	Nov. 8	766	175	85	783
Beers, Ira F. and F. C., Rochester, N. Y. Thermostat	615,669	Dec. 13	836	193	85	1589
Beers, Philo M., Bridgeport, Conn. Needle-grooving machine	609,223	Aug. 16	1978	470	84	1068
Beerstecher, Charles F., Centreville, Mich. Railway foot-guard	606,501	June 28	2719	627	83	1929
Beesley, George, Sutton, England. Furnace	610,791	Sept. 13	1175	271 272	84	1686
Beetison, Israel, Ashland, Nebr. Skate-blade	612,127	Oct. 11	953	230	85	196
Reever & Hindes <i>et al.</i> (See Edmunds, Eddie, assignor.)						
Begins, Joseph, Lisbon, Me. Picker-stick	602,297	Apr. 12	1235	271	83	248
Behr, Hans C., and R. E. Browne, San Francisco, Cal. Hoisting-machine	611,311	Sept. 27	2139	494 495	84	1907
Behren, John F. von, Bryan, Ohio. Combined chair and ladder	596,841	Jan. 4	675	156	82	131
Behrens, Henry, Huntingburg, Ind. Variable-speed gear	598,762	Feb. 8	1186	285	82	844
Behring, Emil, Halle-on-the-Saale, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Diphtheria antitoxin and making same	606,042	June 21	1862	-----	83	1741
Beiderhase, George B., New York, N. Y. Brush	597,873	Jan. 25	2445	570	82	525
Beighler, Henry E. (See Dodds, Horace G., assignor.)						
Beisel, Charles P., Wilkes-Barré, Pa. Skate	609,401	Aug. 23	2304	544	84	1152
Beittenmiller, Fredrich W. (See Rice and Beittenmiller.)						
Belaire, Alfred, assignor of two-thirds to J. T. and N. Yon, North Adams, Mass. Shoe	613,958	Nov. 8	1289	293	85	883
Bélanger, Victor, assignor to J. Quincy, Boston, Mass. Mechanical movement for bicycles	605,844	June 21	1472	337	83	1670
Bélanger, Victor, assignor to J. Quincy, trustee, Boston, Mass. Change-speed mechanism	605,845	June 21	1475	338	83	1670
Bélanger, Victor, assignor to B. F. Weed, Boston, Mass. Mechanical movement	606,157	June 21	2070	476	83	1781
Bélanger, Victor, assignor to B. F. Weed, Boston, Mass. Mechanical movement	606,158	June 21	2073	476 477	83	1781
Belden, Eugene H., Horton, assignor of one-half to W. F. Cowham, Jackson City, Mich. Vessel for holding liquids	604,514	May 24	2381	542	83	1128
Beldin, George D., Marengo, Ill. Combined pitchfork and shovel	611,312	Sept. 27	2142	495	84	1907
Belding, Austin M., and C. A. Rice, Osakis, Minn. Washing-machine	610,117	Aug. 30	3563	826	84	1410
Beler, Adolf, Allegheny, assignor to Monarch Water Heater Company, Pittsburg, Pa. Gas-burner	608,540	Aug. 2	652	147	84	784



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Belknap, Frank D., New York, N. Y. Stencil-printing machine.....	609,402	Aug. 23	2307	544 545	84	1152
Belknap, Frank D., New York, N. Y. Stencil-printing machine.....	613,405	Nov. 1	351	81	85	682
Belknap Motor Company. (See Chapman, William H., assignor.)						
Bell, Albert J., Clinton, Mass. Means for preventing rugs from slipping.....	613,487	Nov. 1	504	114	85	712
Bell, Albert M., Chadwicks, N. Y. Commode.....	597,381	Jan. 18	1598	371	82	345
Bell, Arthur F. L., Carpinteria, Cal. Exploitation and conveyance of bituminous material.....	596,468	Jan. 4	3	2	82	3
Bell, Carrie D., Nicholasville, Ky. Gate.....	606,502	June 28	2721	627	83	1929
Bell, Charles P., Staunton, Va. Copying-press.....	609,606	Aug. 23	2675	624 625	84	1220
Bell, E. Irving. (See Shettleworth, Frederick W., assignor.)						
Bell, Emil F., Cherokee, Iowa. Water-filter.....	612,151	Oct. 11	991	241	85	203
Bell, Enos T. (See Forsyth and Bell.)						
Bell, Frank M., assignor of one-half to W. Pollack, New York, N. Y. Safety device for elevators.....	604,360	May 24	2095	469 470 471	83	1076
Bell, Frank M., assignor of one-half to W. Pollack, New York, N. Y. Safety device for elevators.....	604,361	May 24	2101	471 472	83	1077
Bell, Frank M., assignor of one-half to W. Pollack, New York, N. Y. Valve.....	610,253	Sept. 6	204	45	84	1481
Bell, Frank M., assignor of one-half to W. Pollack, New York, N. Y. Electric-lamp socket.....	612,152	Oct. 11	993	241	85	204
Bell, Frank M., assignor of one-half to W. Pollack, New York, N. Y. Bicycle-lock.....	614,604	Nov. 22	2469	563	85	1139
Bell, Fred C., assignor to N. S. Paul, Cœur d'Alene, Idaho. Adjustable hanger for incandescent lights.....	601,930	Apr. 5	583	121	83	111
Bell, George W., Liverpool, England. Velocipede.....	598,280	Feb. 1	376	87	82	672
Bell, Harold J., assignor to Niagara Falls Acetylene Gas Machine Company, Niagara, Canada. Acetylene-generator.....	597,937	Jan. 25	2544	594	82	543
Bell, Harold J., Niagara, Canada, assignor to himself, E. E. and W. H. Almy, Rochester, N. Y. Acetylene-gas generator.....	608,541	Aug. 2	653	148 149	84	784
Bell, Henry C., <i>et al.</i> (See Kerst, John G., assignor.)						
Bell, Ira J., <i>et al.</i> (See Kerst, John G., assignor.)						
Bell, Isaac R., assignor of one-half to J. D. Long, Owensborough, Ky. Combined ladder and scaffold.....	616,762	Dec. 27	2886	669	85	2028
Bell, John C., Springfield, Mass. Making-wire for paper-making machines.....	600,352	Mar. 8	1340	307	82	1495
Bell, John W., Mercer, Pa. Eaves-trough hanger.....	616,446	Dec. 27	2285	533	85	1912
Bell, Joseph, Flora, Ind. Adjustable table.....	598,895	Feb. 15	1399	337	82	902
Bell, Robert, Aimisfield, and R. Maguire, Springburn, Scotland. Hoisting or lowering gear.....	599,437	Feb. 22	2391	562	82	1114
Bell, Robert J., <i>et al.</i> (See Finch, Edgar, assignor.)						
Bell Telephone Company of Missouri. (See Dean, William W., assignor.)						
Bell, Thomas, <i>et al.</i> (See Finch, Edgar, assignor.)						
Bell, William F., <i>et al.</i> (See Morse, Frederick H., assignor.)						
Bell, William G., Boston, Mass. Apparatus for making meat-packages.....	607,676	July 19	2112	441	84	445
Bell, Winslow M., New York, N. Y. Knitted fabric.....	599,438	Feb. 22	2392	562	82	1114
Bellanger, Frank S., Waterbury, Conn., assignor to D. J. Barry & Co., New York, N. Y. Egg-beater.....	602,152	Apr. 12	983	216	83	197
Bellefeuille, Olivier, Montreal, Canada. Shoe-sewing machine.....	599,761	Mar. 1	155	37, 38	82	1245
Bellefeuille, Olivier, Montreal, Canada. Needle-guard for sewing-machines.....	603,100	Apr. 26	2620	595	83	541
Belleme, Charles. (See Belleme, Richard T. and C.)						
Belleme, Richard T., Sydney, and C. Belleme, Woollahra, New South Wales. Vehicle-wheel.....	597,938	Jan. 25	2547	595	82	543
Belles, Reub O., Pittsburg, and G. A. Hess, Allegheny, Pa.; said Hess assignor to Richmond Safety Gate Co., Richmond, Ind. Elevator-gate.....	612,811	Oct. 25	2182	519	85	462
Bellew, James, <i>et al.</i> (See Hodges, John D., assignor.)						
Bellinger, Albert D., West Superior, Wis. Grain-spout.....	605,375	June 7	612	137	83	1469
Bellis, Daniel A. (See Weddel, Jewett, Taylor, and Bellis.)						
Bellis, Thomas K. (See Hewett, Thomas, assignor.)						
Bellman, John J., and C. T. Rittenhouse, New York, N. Y. Electric transformer.....	605,194	June 7	246	58 139 140 141 142 143 144 145 146 227 228	83	1397
Bellows, Benjamin F., Cleveland, Ohio, assignor, by mesne assignments, to Electric Com- positor Company, Wheeling, W. Va. Machine for making type-bars.....	598,408	Feb. 1	571	142 143 144 145 146 227 228	82	712
Bellows, Benjamin F., Cleveland, Ohio, assignor, by mesne assignments, to Electric Com- positor Company, Wheeling, W. Va. Justifying mechanism.....	598,622	Feb. 8	948	229 230 231	82	800
Bellows, Perry E. (See Dustin and Bellows.)						
Bellows, Stephen H., Athol, Mass. Micrometer-gage.....	612,601	Oct. 18	1776	419	85	364
Belmer, Charles G., Revere, Mass. Sole-edge-trimming tool.....	607,391	July 12	1414	302	84	290
Belt, William E., and E. Bruckner, Chicago, Ill. Eye and cheek protector.....	613,186	Oct. 25	2797	660	85	584
Belville, Martin, and W. Oltmer, Salmon City, Idaho. Work-box.....	616,763	Dec. 27	2888	669	85	2028
Bem, Francisco V. de, Gloucester, Mass. Signaling at sea.....	608,387	Aug. 2	391	86, 87	84	733
Bem, Francisco V. de, Gloucester, Mass. Indicating-chart for marine signaling-codes.....	615,604	Dec. 6	714	164	85	1553
Beman, Henry C. (See Beman, Roy D. and H. C.)						
Beman, Josephine E., Meadville, Pa. Game-board.....	613,876	Nov. 8	1167	267	85	859
Beman, Roy D. and H. C., Meadville, Pa. Liquid-dispensing vessel.....	612,477	Oct. 18	1564	374 375	85	324
Bemis, Harry E., York, Pa., assignor to Castelberg National Jewelry Company, Baltimore, Md. Eyeglass-case.....	608,640	Aug. 9	854	196	84	843
Bender, Frank D., assignor to E. Bement's Sons, Lansing, Mich. Standard and coupling for plows or cultivators.....	615,786	Dec. 13	1043	245	85	1629
Bender, Fritz, assignor to Farbwerk Mühlheim, vormals A. Leonhardt & Co., Mühlheim, Germany. Blue dye.....	606,436	June 28	2623	-----	83	1910
Bender, Fritz, assignor to Farbwerk Mühlheim, vormals A. Leonhardt & Co., Mühlheim, Germany. Amidonaphtholdisulfo-acid and making same.....	606,437	June 28	2624	-----	83	1910
Bender, Fritz, assignor to Farbwerk Mühlheim, vormals A. Leonhardt & Co., Mühlheim, Germany. Blue-black dye.....	606,438	June 28	2625	-----	83	1910
Bender, Fritz, assignor to Farbwerk Mühlheim, vormals A. Leonhardt & Co., Mühlheim, Germany. Green disazo dye.....	606,439	June 28	2626	-----	83	1910
Bender, Hiram, assignor of one-third to W. H. Worthington, Milwaukee, Wis. Force-pump.....	615,470	Dec. 6	476	111	85	1504



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Bender, John B., Wymore, Nebr. Wire-reel .....	613,553	Nov. 1	603	139	85	731
Bender & Martiny. (See Tribuzio, Catello, assignor.)						
Bendheim, Ferdinand, <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Benedict & Burnham Manufacturing Company. (See Kenworthy, Abel, assignor.)						
Benedict & Burnham Manufacturing Company. (See Webb, James N., assignor.)						
Benedict, Fred, Niles, Mich. Insulator-support for electrical conductors .....	600,607	Mar. 15	1801	413	82	1601
Benedict, Michael, Newark, N. J. Vending-machine .....	602,185	Apr. 12	1046	228 229	83	210
Beneké, George, Southport, England. Explosive and making same .....	608,316	Aug. 2	260		84	707
Benes, Francis, Bluff, Tex. Dividers or compasses .....	613,814	Nov. 8	1065	242	85	839
Benes, John J., Boston, Mass. Automatic railway-switch .....	609,753	Aug. 23	2936	686 687	84	1271
Benesh, Charles, Wahpeton, N. D. Coat-holder .....	612,623	Oct. 18	1833	435	85	376
Benét, Laurence V., Paris, France. Gas-operated gun .....	606,115	June 21	2000	459	83	1768
Benét, Laurence V., Paris, France. Gun-mounting .....	615,522	Dec. 6	572	131	85	1523
Benét, Laurence V., and H. A. Mercié, Paris, France, assignors to Hotchkiss Ordnance Company, Limited, London, England. Gun-mounting .....	601,543	Mar. 29	3410	774	82	1952
Bengert, John F., Brooklyn, N. Y. Bicycle-stand .....	607,330	July 12	1307	279	84	270
Benham, Elijah B., Mystic, Conn., and H. E. Barlow, Providence, R. I.; said Barlow assignor to F. F. Tripp, Boston, Mass. Machine for making toothpicks .....	609,075	Aug. 16	1692	403	84	1015
Benicke, Georg, Offenbach-on-the-Main, Germany. Protective cover for emery-wheels .....	608,417	Aug. 2	453	101	84	746
Benjamin, John H., Smith's Landing, N. Y. Match-box .....	607,537	July 19	1858	386	84	399
Benjamin, Newton, Elmira, N. Y. Rail-joint .....	612,891	Oct. 25	2335	556	85	490
Benner, Ernest W. (See Bosca and Benner.)						
Bennett, Abijah B., Opelika, Ala. Invalid-bed .....	607,011	July 12	678	147	84	154
Bennett, Arthur E. (See Webster and Bennett.)						
Bennett Combination Saw-Tool Company. (See Bennett, Richard, assignor.) (Reissue.)						
Bennett, Darius, Nelsonville, Ohio. Car-dumping mechanism .....	616,071	Dec. 20	1556	363	85	1746
Bennett, Elwood, Kokomo, Ind. Combined hoisting and telescoping apparatus for threshing-machine chutes .....	598,071	Feb. 1	2	1	82	603
Bennett, Eralza A. (See Bennett, William C. and E. A.)						
Bennett, Fredrick R. (See Noble and Bennett.)						
Bennett, Herbert O. (See Johnston, Jonathan, assignor.)						
Bennett, Hiram H. T., assignor of one-half to E. L. Parker, Detroit, Mich. Corn or bunion plaster .....	615,240	Dec. 6	15	3	85	1414
Bennett, James G. (See Ormond, Albert E., assignor.)						
Bennett, James G., <i>et al.</i> (See Bernardin and Pattenau, assignors.)						
Bennett, Joe, Coleman, Tex. Branding-chute .....	602,716	Apr. 19	1953	444	83	400
Bennett, John, Paris, Me. Bonding and tying .....	605,468	June 14	761	174	83	1519
Bennett, John E., Gouverneur, N. Y. Brooder .....	596,469	Jan. 4	5	2	82	3
Bennett, John T., Cape Town, Cape Colony. Apparatus for removing saccharin or other impurities from wine .....	604,927	May 31	3102	713	83	1286
Bennett, Killam E. (See Kellom, Charles F., assignor.)						
Bennett, Lawrence J., Solvay, N. Y. Switch-operating device .....	611,193	Sept. 20	1888	436	84	1840
Bennett, Leslie A., Malden, and G. W. Loring, Brockton, Mass. Portière-support .....	615,009	Nov. 29	3223	741	85	1302
Bennett, Richard, Newark, N. J., assignor to Bennett Combination Saw-Tool Company, of New York. Saw-tool. (Reissue) .....	11,661	Apr. 26	2856	651	83	587
Bennett, Robert J., Chicago, Ill. Organ-bellows .....	616,221	Dec. 20	1865	431 432 433	85	1807
Bennett, Robert J., assignor to Lyon & Healy, Chicago, Ill. Reed-organ .....	599,439	Feb. 22	2393	562 563	82	1114
Bennett, Thomas E., New Britain, Conn. Toilet-fixture .....	613,231	Nov. 1	9	3	85	619
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Primer for ordnance .....	606,440	June 28	2627	604	83	1910
Bennett, Thomas G., and W. Mason, assignors to Winchester Repeating Arms Company, New Haven, Conn. Magazine-firearm .....	599,587	Feb. 22	2662	623 624	82	1165
Bennett, Walter E., assignor to Hendrick Manufacturing Company, Limited, Carbondale, Pa. Elevator safety device .....	604,957	May 31	3142	722 723	83	1294
Bennett, Walter E., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Button-punch press .....	611,988	Oct. 4	679	165 166	85	133
Bennett, Walter E., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Button-punching machine .....	611,989	Oct. 4	684	166 167	85	134
Bennett, Walter E., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Machine for removing buttons from finishing-trays .....	612,375	Oct. 11	1385	335 336	85	277
Bennett, Walter E., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Machine for finishing buttons .....	614,784	Nov. 22	2781	637 638	85	1200
Bennett, Walter E., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Device for holding buttons for enameling, &c. .....	614,785	Nov. 22	2787	639	85	1201
Bennett, Walter E., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Button-carding machine .....	614,786	Nov. 22	2788	639 640	85	1202
Bennett, William C. and E. A., Schaller, Iowa. Wire-gate tightener .....	598,494	Feb. 8	726	175	82	757
Bennett, William H., assignor of one-half to D. F. Rhodes, Athlone, Va. Plow and cultivator .....	601,544	Mar. 29	3413	774	82	1953
Bennik, Arie W. F., Apeldorn, Netherlands. Tube-coupling .....	604,224	May 17	1830	410	83	1005
Bennik, Hendrik, Hamburg, Germany. Door-operating appliance .....	606,640	July 5	5	1, 2	84	4
Benning, Joseph H., San Francisco, Cal. Swinging cot .....	600,116	Mar. 1	898	206	82	1390
Bennum, George W., Georgetown, Del. Submarine boat .....	604,185	May 17	1764	397 398	83	993
Bennum, George W., assignor of three-eighths to E. Rushton, W. F. Tunnell, R. H. Fooks, F. M. Jones, A. J. Lynch, J. C. Smith, and A. B. Robinson, Georgetown, Del. Railway-joint .....	601,220	Mar. 22	2834	647	82	1811
Bennwitz, Aurel J. (See Abbee, Sewall, and Bennwitz.)						
Bennwitz, Aurel J. (See Sewall and Bennwitz.)						
Benoit, Joseph F., assignor of one-half to G. B. Goodall and H. J. Hope, Sanford, Me. Picker-staff for looms .....	608,542	Aug. 2	656	149	84	785
Benschmidt, Herman, <i>et al.</i> (See Stephenson, John R., assignor.)						
Benscoter, Frank J. (See Gardner and Benscoter.)						
Bensel, Edmund. (See Kröning and Bensel.)						
Bensene, Charles, Tess Corners, Wis. Wagon-seat support .....	605,846	June 21	1480	338	83	1671
Bensinger, Moses, Chicago, Ill., assignor to Brunswick-Balke-Collender Company, Chicago, Ill., and Cincinnati, Ohio. Billiard-cushion .....	612,765	Oct. 18	2083	494	85	422
Benson, Andrew, assignor to Rouse, Hazard & Company, Peoria, Ill. Rear-wheel-adjusting device .....	609,403	Aug. 23	2309	545	84	1152
Benson, Charles B., Chicago, Ill. Rotary engine .....	610,700	Sept. 13	1002	232 233	84	1652
Benson, Charles E., Wallingford, Conn. Steam-pipe coupling for railway-cars .....	602,821	Apr. 26	2148	487	83	452



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Benson, George, Belfast, Ireland. Window-blind mounting	612,812	Oct. 25	2183	519	85	462
Benson, George N., Baltimore, Md. Hinge	604,713	May 31	2750	628	83	1218
Benson, John, <i>et al.</i> (See Halin, John, assignor.)						
Benson, John H., and L. Greenwald, Leadville, Colo. Damper-fastener for stoves or stovepipes	609,135	Aug. 16	1813	431	84	1036
Benson, Nels F., New York, N. Y. Lock for bicycles	596,974	Jan. 11	909	214	82	194
Benson, Peter, Minneapolis, Minn. Capo tasto	608,278	Aug. 2	186	45	84	691
Benson, Peter, Minneapolis, Minn. Guitar	608,279	Aug. 2	187	45	84	692
Benson, William A. S., London, England. Jug or vessel for containing liquids	605,071	June 7	9	3	83	1354
Benson, William E., Kansas City, Mo. Bulletin-board	603,248	May 3	9	2	83	602
Benstead, Thomas. (See Fowler and Benstead.)						
Bent, George W., Hyde Park, Mass. Supporting device for movable parts of tables	596,975	Jan. 11	910	214	82	194
Bent, Richard M., New York, N. Y. Pedal for musical instruments	613,232	Nov. 1	10	3	85	619
Bente, Henry K., <i>et al.</i> (See Barker, Henry C., assignor.)						
Bentley, Alfred and J., Paterson, N. J. Measuring and registering device for looms	613,959	Nov. 8	1291	293	85	883
Bentley, Charles E., New York, N. Y. Seam for sewed fabrics	599,215	Feb. 15	1944	461	82	1004
Bentley & Gerwig Furniture Company. (See Baker, William H., assignor.)						
Bentley, John. (See Bentley, Alfred and J.)						
Bentley, William, assignor to Rex Cash Register Company, Limited, Toronto, Canada. } Cash-register	609,384	Aug. 16	2259	534 535	84	1124
Bentley, William H., and J. E. Roberts, Jamestown, N. Y. Vehicle-hub	608,099	July 26	2905	622	84	619
Benton, Francis E., Stoughton, Mass. Hand-strap for cars	605,990	June 21	1762	404	83	1724
Benton, Francis E., Stoughton, Mass. Wooden clothes-pin	609,261	Aug. 16	2059	488	84	1085
Benton, George E., Brooklyn, assignor of one-half to G. S. Elliott, New York, N. Y. Nut-lock	605,811	June 14	1383	317	83	1635
Benton, Henry B., Stetson, Mich. Automatic wagon-brake	614,362	Nov. 15	2024	467	85	1045
Benton, William S. (See Scott and Benton.)						
Bentz, Charles. (See Brobst, Ulysses S. G., assignor.)						
Bentz, Olivier, Paris, France. Photographic finder	607,583	July 19	1947	404	84	415
Benville, Benedict, assignor of one-half to J. S. Muriaty, Chelsea, Mass. Cleaning and polishing compound	614,787	Nov. 22	2792		85	1202
Berbecker, Julius, Waterbury, Conn. Curtain-ring	615,339	Dec. 6	205	50	85	1453
Berchold, Anton, Innsbruck, Austria-Hungary. Cooking vessel	609,569	Aug. 23	2606	609	84	1208
Berck, Charles C., Boelus, Nebr. Bicycle motor attachment	597,255	Jan. 11	1380	322	82	283
Berck, George, Boelus, Nebr. Scoop-handle attachment	607,154	July 12	978	211	84	206
Berg, Anton, Chicago, Ill. Machine for making bricks, tiles, &c	598,554	Feb. 8	830	198 199	82	778
Berg, Anton, Chicago, Ill. Mold for brick-machines	607,787	July 19	2297	485	84	480
Berg, Clarence A. F., Providence, R. I. Bicycle saddle-post	606,775	July 5	269	56	84	54
Berg, Conrad. (See Rakovsky, Abraham, assignor.)						
Berg, John V., assignor to T. E. Brown, Chicago, Ill. Barrel-lining	601,803	Apr. 5	339	69	83	63
Berg, Ludvig H., Brigham City, Utah. Vulcanizing apparatus	607,823	July 26	2395	508	84	518
Berg, Sven O., St. Louis, Mo. Smoke-consuming furnace	608,435	Aug. 2	480	108	84	751
Berg, Theodore O. (See Knudtson, Thomas, assignor.)						
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Bicycle-lamp	609,192	Aug. 16	1908	454	84	1053
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Lamp	609,193	Aug. 16	1910	455	84	1053
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Bicycle-lamp	609,222	Aug. 16	1976	469	84	1068
Berger, Alfred A. R., and F. Herrmann, New York, N. Y. Hanger for shades, &c	611,886	Oct. 4	510	124	85	102
Berger, Andrew, and H. Hildenbrand, New York, N. Y. Tapping apparatus	604,596	May 24	2526	575	83	1156
Berger, Franz, assignor of one-half to G. Honegger, Milwaukee, Wis. Sled-propeller	616,285	Dec. 20	1990	463	85	1833
Berger, Joseph A., assignor of one-half to J. P. Larson, Chicago, Ill. Pneumatic-tire fastener	611,230	Sept. 27	1982	458	84	1877
Berger, Paul E., Chicago, Ill. Coin-controlled vending-machine	612,656	Oct. 18	1894	448	85	387
Bergeron, Célestin, New York, N. Y. Awning	610,020	Aug. 30	3422	792	84	1380
Bergh, Jefferson L., Cobleskill, assignor of two-thirds to G. H. Thacher and L. Balch, Albany, N. Y. Process of and apparatus for clarifying milk	607,109	July 12	891	192	84	191
Berghaus, Gustav, Gummersbach, Germany. Tobacco-pipe	610,520	Sept. 13	711	161	84	1592
Berglund, Andrew, Manistee, Mich. Pocket-knife	598,896	Feb. 15	1401	337	82	902
Bergman, John A., Chicago, Ill. Combined chair and bed	607,538	July 19	1860	387	84	400
Bergmann, Charles. (See Holtmann and Bergmann.)						
Bergmann, Frederick. (See Henneberg and Bergmann.)						
Bergmann, Sigmund, assignor to Sprague Electric Company, New York, N. Y. Lining for interior conduits	603,230	Apr. 26	2836	647	83	584
Bergmann, Sigmund, New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Electric-arc lamp	611,601	Oct. 4	10	2.3	85	4
Bergmüller, Anton, Munich, Germany. Grain-washing apparatus	598,495	Feb. 8	727	175	82	757
Bergqvist, Axel F., Fairfield, Iowa. Plow	609,492	Aug. 23	2481	579 580	84	1184
Bergström, Carl J., Finshyttan, Sweden. Dry-house for lumber, &c	603,837	May 10	1085	242	83	826
Bergstrom, John A., Passaic, N. J. Drawing instrument	605,692	June 14	1166	269	83	1595
Bergstrom, John H., Danbury, Conn. Bicycle	606,854	July 5	414	88	84	82
Bergstrom, Louis. (See Millen, George, assignor.)						
Beringer, Carl. (See Scheele, Walter T., assignor.)						
Beringer, Walter C., <i>et al.</i> (See McIntire, Charles S., assignor.)						
Berkebile, Robert F. (See Weitz and Berkebile.)						
Berkemeyer, Ferdinand, assignor of one-half to C. N. Cressman, Sellersville, Pa. Printing-press for cutting ribbons and counting same	605,173	June 7	205	51, 52	83	1389
Berkey, William A., <i>et al.</i> (See Lisle, Myron C., assignor.)						
Berkovitz, Charles, New York, assignor, by mesne assignments, of one-half to M. Kaufman, Brooklyn, N. Y. Hat-fastener	599,031	Feb. 15	1651	390	82	951
Berkowitz, Janet, Providence, R. I. Clothes-lifter	613,439	Nov. 1	416	95	85	695
Berkstresser, John E., Sylacauga, Ala. Horse-detacher	609,194	Aug. 16	1912	455	84	1054
Berliner, Emile. (See Jenkins, Charles F., assignor.)						
Bernard, John. (See Dierks, John.)						
Bernard, William, New York, N. Y. Match-holder	609,404	Aug. 23	2310	545	84	1153
Bernardi, Joseph A., Salem, Oreg. Gasket	612,394	Oct. 18	1417	342	85	297
Bernardin, Dosithe, St. Eustache, and Z. Pattenaude, assignors of forty-nine one-hundredths to J. G. Bennett and H. G. Wilson, Winnipeg, Canada. Automatic railway-gate	615,787	Dec. 13	1045	246	85	1629
Bernardini, Walter B. (See Ely and Bernardini.)						
Berneis, Josef, Langenbielau, Germany. Bottle-stopper	603,034	Apr. 26	2499	567	83	519
Berneis, Josef, Langenbielau, Germany. Sealing device for bottle-stoppers	603,035	Apr. 26	2500	567	83	519



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Bernhard, Louis, assignor to C. Lee, Bridgeport, Conn. Boiler-setting.....	602,717	Apr. 19	1955	444	83	401
Bernhardt, Charles, assignor of one-half to J. Kaufmann, Philadelphia, Pa. Chute-wagon.....	605,535	June 14	861	202	83	1539
Berninghaus, Eugene, Cincinnati, Ohio. Barber's chair.....	609,002	Aug. 16	1555	370	84	989
Berns, John. (See Roche, John W., assignor.)						
Bernson, Charles W., assignor to Bernson Manufacturing Company, New York, N. Y. Chain adjustment for bicycles.....	604,294	May 17	1960	439	83	1031
Bernson Manufacturing Company. (See Bernson, Charles W., assignor.)						
Bernson Manufacturing Company. (See Savage, George C., assignor.)						
Bernstein, Alexander, Boston, Mass. Food product and making same.....	603,165	Apr. 26	2724		83	563
Bernstein, Charles, New York, N. Y. Fare-register-operating mechanism for cars.....	604,295	May 17	1961	439	83	1031
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Berri, William, New York, N. Y. Machine for casting justifying-spaces and justifying lines of type.....	612,010	Oct. 11	728	180	85	156
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Berri, William, New York, N. Y. Type-comb.....	615,340	Dec. 6	206	51	85	1453
Berry, Charles E., Cambridge, Mass. Collar and hame and fastening therefor.....	610,792	Sept. 13	1177	272	84	1686
Berry, Charles E., Cambridge, Mass. Draft apparatus.....	610,793	Sept. 13	1178	272	84	1686
Berry, Daniel A., Northampton, England. Heel and toe tip.....	607,729	July 19	2192	462	84	461
Berry, John, Nottingham, England. Machine for making bricks, tiles, &c.....	614,690	Nov. 22	2626	597	85	1169
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Berry, John F., et al. (See Patton, Oliver C., assignor.)						
Berry, Joseph, Tacoma, Wash. Charcoal-kiln.....	607,331	July 12	1308	279	84	270
Berry, Olin, Bird City, Kans. Door-lock.....	612,086	Oct. 11	884	214	85	183
Berry, William T. (See Montgomery and Berry.)						
Bersey, Walter C. (See Brougham and Bersey.)						
Bertles, Andrew F., Doylestown, Pa. Gearing.....	602,298	Apr. 12	1286	272	83	248
Bertolett, Edwin F., assignor to Bertolett Manufacturing Company, Philadelphia, Pa. Metal window frame and sash.....	609,984	Aug. 30	3361	780	84	1368
Bertolett Manufacturing Company. (See Bertolett, Edwin F., assignor.)						
Bertram, David N. (See Milne, Samuel, assignor.)						
Bertrand, Joseph E., Boston, Mass., assignor to Bay State Shoe Machinery Company, Portland, Me. Thread-waxing device for sewing-machines.....	603,359	May 3	196	45	83	639
Bertrand, Joseph E., Boston, Mass., assignor to Bay State Shoe Machinery Company, Boston, Mass., and Portland, Me. Thread-waxing device for sewing-machines.....	607,332	July 12	1310	280	84	270
Bertrand, Joseph E., Boston, Mass., assignor to Bay State Shoe Machinery Company, Boston, Mass., and Portland, Me. Sewing-machine.....	607,404	July 12	1439	306	84	294
Bertrand, Lewis. (See Kummer and Bertrand.)						
Bertsch, Charles A. (See Guild and Bertsch.)						
Bertsch & Co. (See Guild, George, assignor.)						
Bertsch & Co. (See Guild and Bertsch, assignors.)						
Beshel, John J., Trevorton, Pa. Case for exhibiting articles.....	614,691	Nov. 22	2627	598	85	1169
Besso, Marco. (See Pignotte, Lori, Regnoli, Besso, and Pantaleoni.)						
Bessonette, Charles L., Waco, Tex. Baling-press.....	603,249	May 3	11	3	83	602
Bessonette, Charles L., Waco, Tex. Baling cotton.....	603,250	May 3	13	4	83	603
Best, Albert S., New York, N. Y. Garment.....	598,335	Feb. 1	461	110	82	689
Best, Clearmont V., Canton, Ohio. Incandescent vapor-burner.....	615,010	Nov. 29	3224	741	85	1302
Best, Daniel, San Leandro, Cal. Oil-vapor traction-engine.....	602,594	Apr. 19	1729	393	83	357
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Best, John A., Augusta, Ga. Index.....	602,718	Apr. 19	1956	444	83	401
Best, Thomas J., Montreal, Canada. Hot-water furnace.....	612,153	Oct. 11	995	241	85	204
Best, William, Sr., Abingdon, Ill. Display-rack.....	610,163	Sept. 6	6	2	84	1444
Best, William, assignor to Ackroyd & Best, Limited, Morley, England. Miner's safety-lamp.....	610,511	Sept. 6	697	157	84	1573
Best, William J., Grand Rapids, Mich. Bicycle-saddle.....	606,818	July 5	342	73	84	68
Bestie, William, and W. F. Bilger, assignors to J. J. Dupuy, Memphis, Tenn., and B. W. Arnold, Mont Vale, Va. Apparatus and composition for repairing pneumatic tires.....	614,416	Nov. 15	2129	490	85	1065
Bejtemann, George W., and W. Candland, London, England. Lock-bottle.....	610,794	Sept. 13	1183	273	84	1688
Bettles, Alfred J. (See Newhouse, Bettles, and Weir.)						
Betts, Charles L., assignor to R. E. Dietz Company, New York, and Steam Gauge and Lantern Company, Syracuse, N. Y. Tubular lantern.....	598,072	Feb. 1	5	2	82	603
Betts, Edgar K., Lansingburg, N. Y. Collar.....	598,238	Feb. 1	291	66	82	657
Betts, George J., et al. (See Thurlow and Hignett, assignors.)						
Betts, Henry C., Middletown, Cal. Gate.....	607,333	July 12	1311	280	84	271
Betts Machine Company. (See Moreton, George W., assignor.)						
Beucus, John. (See Beucus and Black, assignors.)						
Beucus, Thomas, and L. Black; said Black assignor to J. Beucus, Cedar Springs, Mich. Acetylene-gas generator.....	613,790	Nov. 8	1013	231	85	830
Beutelspacher, Henry, Bridgeport, Conn. Air-purifier for beer-pumps.....	609,493	Aug. 23	2484	580	84	1185
Bevan, David. (See Anderson and Bevan.)						
Bevan, Edward J. (See Cross, Bevan, and Beadle.)						
Bevan, Morgan. (See Roberts and Bevan.)						
Bevan, Walter. (See Plush and Noblit, assignors.)						
Bevans, William H., Washington, D. C. Gun-carriage.....	605,376	June 7	613	137	83	1469
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Bevans, William H., Washington, D. C. Field-mount for artillery.....	605,377	June 7	617	138	83	1470
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Bever, Augustus, Dewsbury, England. Valve-gear.....	609,772	Aug. 30	2967	694	84	1291
Bevin Brothers Manufacturing Company. (See Barker, William H., assignor.)						
Bevin Brothers Manufacturing Company. (See Scranton, Frederick A., assignor.)						
Bevington, James H., Akron, Ohio, assignor to Granite Railway Torpedo Company, Pittsburg, Pa. Railway-torpedo.....	597,256	Jan. 11	1382	323	82	284
Bevington, James H., and H. M. Fisher, Akron; said Fisher assignor, by mesne assignments, to G. C. Nott, Cleveland, Ohio. Railway-torpedo.....	608,020	July 26	2779	591	84	594
				445		
Bevins, Charles L., Newport, R. I. Connecting attachment for bicycles.....	614,317	Nov. 15	1931	446	85	1027
Beyer, Adolphe G. (See Beyer, Auguste F. and A. G.)						
Beyer, Auguste F. and A. G., Paris, France. Apparatus for molding soap or other material.....	615,421	Dec. 6	387	92, 93	85	1488



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Beyer, Emil O. (See Förster, Julius F., assignor.)						
Beyer, Gustav M., Milwaukee, Wis. Slate-frame cushion	608,247	Aug. 2	140	35	84	682
Bezer, Henry, New Rochelle, N. Y. Railway signaling apparatus	602,423	Apr. 19	1441	326 327	83	304
Bezer, Henry, New Rochelle, N. Y. Railway signaling system and apparatus	602,792	Apr. 19	2071	470 471	83	423
Bhise, Shanker A., Bombay, India. Weighing and measuring device	603,122	Apr. 26	2656	603 604	83	549
Bhise, Shanker A., Bombay, India. Advertising or sign lamp	603,251	May 3	14	4	83	603
Bibb, Charles E. (See Eastwood, Bibb, and McClintock.)						
Bibb, John T., et al. (See Barron, Reid, and McDonnell, assignors.)						
Bibb, John T., et al. (See Reid and McDonnell, assignors.)						
Bibbens, Stewart S. (See Floyd, Theodore B., assignor.)						
Bice, Edgar M., Adrian, Mo. Beefsteak-bruise	615,132	Nov. 29	3458	793	85	1346
Bickel, Casper, Shelburne Falls, Mass. Combination-wrench	598,897	Feb. 15	1402	338	82	902
Bickel, Casper, Shelburne Falls, Mass. Bicycle-pedal	601,607	Mar. 29	3507	799	82	1970
Bickel, Louis, Akron, Ohio. Wire-tightener	609,405	Aug. 23	2311	545	84	1153
Bickel, Willis F., McGregor, Iowa. Coasting-sled	613,110	Oct. 25	2676	633	85	559
Bickelberger, Frank M., Hyde Park, assignor of one-half to W. Bauer, Oakley, Ohio. Track-cleaner	601,229	Mar. 29	2854	652	82	1842
Bickelberger, Frank M., Hyde Park, assignor of one-half to W. Bauer, Oakley, Ohio. Folding car-step	609,136	Aug. 16	1814	431	84	1036
Bickford, Charles R., Elyria, Ohio. Gem-holder	612,813	Oct. 25	2185	519	85	462
Biddinger, Albert W., Harrison, Ohio, assignor of one-half to R. G. Frederick, West Harrison, Ind. Railway-signal	605,847	June 21	1481	339	83	1671
Biddle, Robert, Jr., and E. J. Frost, Philadelphia, Pa. Hydrocarbon incandescent burner	609,653	Aug. 23	2784	649	84	1242
Biddle, William, assignor to American Railway Electric Light Company, New York, N. Y. Electric car-lighting	613,406	Nov. 1	354	81	85	683
Bidwell, George A., Pittsfield, Mass. Hoisting apparatus	610,318	Sept. 6	342	73	84	1507
Bidwell, Robert G., Washington, D. C., assignor of one-fourth to S. G. French, Jr., Pensacola, Fla. Rotary boiler-flue cleaner	599,825	Mar. 1	288	65	82	1267
Bieber, George G., Phillipsburg, Mont. Bicycle	608,825	Aug. 9	1207	282	84	908
Biehn, George, North Yakima, Wash. Window-shade fixture and curtain-pole support	598,354	Feb. 1	486	117	82	694
Biele, Charles F., New York, N. Y. Show-case	606,911	July 5	493	107 108	84	98
Biele, Charles F., New York, N. Y. Show-case	615,788	Dec. 13	1048	246	85	1630
Bienenzucht, Samuel, New York, N. Y. Waist-belt	615,133	Nov. 29	3459	794	85	1346
Bienkowski, Peter T. (See Lange, Ferdinand H., assignor.)						
Bierbach, Albert G., Milwaukee, Wis. Double sliding doors	599,490	Feb. 22	2493	586	82	1132
Bierley, Henry A., Portsmouth, Ohio. Shaft-tug	602,050	Apr. 12	800	173	83	163
Biermann, Hermann, Breslau, Germany. Device for preventing accidents on railways	598,062	Jan. 25	2764	644	82	587
Bierwirth, William H., Torrington, Conn. Photographic-plate washer	607,677	July 19	2113	442	84	445
Biery, Lewis E., New Kensington, Pa. Bag-holder	611,347	Sept. 27	2201	508	84	1918
Biesmeyer, Lorenz F., Westphalia, Mo. Pessary	604,958	May 31	3143	723	83	1294
Bigelow, Elias A., Dash, Mich. Belt-tightener	613,960	Nov. 8	1293	293	85	883
Bigelow, Frank A., et al. (See Hall, Ezra M., assignor.)						
Bigelow, John, Minneapolis, Minn. Cigar-holder and tobacco-pipe	608,170	Aug. 2	6	2	84	656
Bigelow, John, Minneapolis, Minn. Smoking-pipe	610,597	Sept. 13	848	194	84	1619
Bigelow, Lewis L., Delta, Colo. Car-coupling	599,588	Feb. 22	2667	624	82	1166
Bigelow, Volney A., et al. (See Hall, Ezra M., assignor.)						
Bigger, Frank. (See Fellows, Charles, assignor.)						
Bigger, William M. (See Hoke, Campbell, and Bigger.)						
Biggs, Alden, Jr., Westhampton, N. Y. Basket	606,798	July 5	307	64	84	61
Biggs, Alden, Jr., Westhampton, N. Y. Means for securing tools on handles	610,733	Sept. 13	1060	243	84	1663
Biggs, George F., assignor of one-third to A. C. Stanley, St. Louis, Mo. Sample-shoe case	615,789	Dec. 13	1050	247	85	1630
Biggs, Lester E. (See Biggs, Lester M., assignor.)						
Biggs, Lester M., assignor to L. E. Biggs, Akron, Ohio. Toilet appliance	609,870	Aug. 30	3139	733 734	84	1326
Bihl, Ernest, et al. (See Ball, Samuel C., assignor.)						
Bilger, William F. (See Bestie and Bilger.)						
Bill, Fred W., deceased; J. L. Norris, Washington, D. C., administrator, assignor to L. A. Bill, Hanley, England. Fire and burglar alarm	614,494	Nov. 22	2280	522	85	1106
Bill, Lilian A. (See Bill, Fred W., assignor.)						
Billberg, Carl O. C., Lewisburg, and P. A. N. Winand, Philadelphia, Pa. Combined bearing and power-transmitting device	616,396	Dec. 20	2195	512	85	1873
Billburgh, Edward, Grand Rapids, Mich. Awning	605,625	June 14	1048	241	83	1572
Bille, Numa A., assignor of one-half to F. Müller, Philadelphia, Pa. Bicycle handle-bar	608,021	July 26	2780	591	84	594
Bille, Numa A., assignor of one-half to F. Müller, Philadelphia, Pa. Adjustable grip for handle-bars of bicycles	610,254	Sept. 6	205	46	84	1482
Billheimer, John C., et al. (See Horrall, William A., assignor.)						
Billing, Frederick. (See Sharp and Billing.)						
Billing, Frederick, W. E. Partridge, and W. S. Middleton, Birmingham, England. Tool for grooving and joining tubes	601,230	Mar. 29	2855	652	82	1842
Billing, Kaspar. (See Doflein and Billing.)						
Billingham, Francis, New York, N. Y. Lamp	611,806	Oct. 4	368	88	85	74
Billings, Charles E. (See Wilson, Thomas B., assignor.)						
Billings, Charles E., Hartford, Conn. Wrench	599,379	Feb. 22	2264	536	82	1088
Billings, Frederic C., Hartford, Conn. Drop-hammer	614,692	Nov. 22	2629	598 599	85	1169
Billings, Phlavo L., et al. (See Gannoe, Thomas A., assignor.)						
Billings, William R., and E. C. Collins, assignors to Taunton Locomotive Manufacturing Company, Taunton, Mass. Ice breaker and clearer for snow-plows	597,939	Jan. 25	2549	595	82	544
Billingsley, John, Eliasville, Tex. Gate	614,788	Nov. 22	2793	640 641	85	1202
Billwiller, Johann S., Untereggen, Switzerland. Burner for acetylene gas	602,424	Apr. 19	1444	327	83	305
Binckley, George S., assignor to Union Iron Works, San Francisco, Cal. Friction-clutch mechanism	596,648	Jan. 4	335	73	82	67
Bindemann, Harry O. F., Madrid, Spain. Electrical steering apparatus	603,886	May 10	1175	266	83	845
Binder, Carl, Chicago, Ill. Cellar construction	596,734	Jan. 4	497	113	82	96
Binder, Carl, Chicago, Ill. Roof	616,180	Dec. 20	1798	415	85	1794
Binder, Felix, assignor to Société de la Manufacture d'Indiennes, Emile Zundel, Moscow, Russia. Apparatus for singeing woven fabrics	602,813	Apr. 19	2123	479	83	432
Binder, Johann, Neunkirchen, assignor to Hirschwanger Holzschleiferei und Holzstoff-waaren Fabrik Schoeller & Company, Hirschwang, Austria-Hungary. Machine for manufacturing pasteboard boxes	597,940	Jan. 25	2550	596 597 598	82	544



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Binford, Elmer J., <i>et al.</i> (See Reece, Eli B., assignor.)						
Bingham, Alvah L., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-blowing machine	608,022	July 26	2781	591 592 593	84	594
Bingham, George S., <i>et al.</i> (See Russell, William, assignor.)						
Bingham, George S., Hamilton, Canada. Grain-shocking machine	597,703	Jan. 25	2153	504	82	469
Bingham, George W., Great Falls, Mont. Shutter-worker	599,053	Feb. 15	1680	397	82	957
Bingham, Osmore A., Keene, N. H. Window-screen	601,625	Apr. 5	4	1	83	3
Bings, Alexander. (See McClure and Bings.)						
Binkley, George K. (See Mengel and Binkley.)						
Binkley, George K. (See Mengel, Binkley, and Gerber.)						
Binn, Franklin, Trenton, N. J. Nut-lock	606,328	June 28	2411	559	83	1868
Binney, Charles R., London, England, assignor to W. N. Amory, New York, N. Y. Means for preventing vibration in vehicles	608,505	Aug. 2	594	133	84	773
Binney, Harold, <i>et al.</i> (See Nealon, John J., assignor.)						
Binney, Harold, trustee. (See Thomas, Eddy T., assignor.)						
Binns, William H., Chicago, Ill. Retainer for ball-bearings	607,584	July 19	1949	404	84	415
Binns, William H., assignor to A. Featherstone & Company, Chicago, Ill. Sprocket attachment for cycles	610,152	Aug. 30	3620	841	84	1422
Bintliffe, Caroline N., assignor of one-half to J. Walker, London, England. Machine for applying adhesive material to envelopes	597,453	Jan. 18	1735	401 402	82	370
Birch, Arthur, Arlington, Mass. Machine for mercerizing	612,189	Oct. 11	1052	253	85	216
Birch, Foster F., Dover, N. J. Steam-boiler	615,241	Dec. 6	15	4	85	1414
Birch, Thomas, Noblesville, Ind. Game apparatus	601,700	Apr. 5	133	26	83	28
Bird, Charles S., assignor of one-half to H. C. Ransom, Jackson, Mich. Muffler for gas-engines	598,845	Feb. 8	1312	317	82	869
Bird, Earle. (See Ryland, Thomas J., assignor.)						
Bird, Henry R., Buffalo, N. Y. Motor-carriage	605,243	June 7	341	78, 79	83	1415
Bird, Henry R., Buffalo, N. Y. Device for converting motion	614,645	Nov. 22	2539	579	85	1153
Bird, James H., and G. P. Carroll, Mankato, Minn. Clutch-sprocket	612,453	Oct. 18	1518	365	85	316
Bird, Ralph, Jersey City, N. J. Cradle	609,654	Aug. 23	2786	649	84	1242
Bird, Samuel E., Chicago, Ill. Sash-fastener	614,429	Nov. 15	2156	496	85	1069
Bird & Son, F. W. (See Marshall, Lewis C., assignor.)						
Bird, Stephen, Bird Point, Mo. Poison-distributor	599,216	Feb. 15	1945	461	82	1005
Birdsall, Benjamin S., Raceland, La. Liquid-elevating wheel	609,655	Aug. 23	2787	650	84	1242
Birely, Charles, Shelbyville, Ind. Wood-finishing device	608,171	Aug. 2	7	2	84	656
Birkett, Edward J. (See Graham and Birkett.)						
Birkicht, Adaline, St. Louis, Mo. Deflector for stoves	616,521	Dec. 27	2448	567	85	1943
Birkicht, George. (See Neeley, Maitland, and Birkicht.)						
Birkicht, George E., <i>et al.</i> (See Neeley, George S., assignor.)						
Birks, William, Nottingham, England. Carving-machine	605,773	June 14	1300	300	83	1620
Birmingham Brass Company. (See Curtis, Charles H., assignor.)						
Birmingham Iron Foundry. (See Coulter, William, assignor.)						
Birnbaum, Anton, Tampa, Fla. Resilient tire	598,763	Feb. 8	1187	286	82	844
Birner, Charles P., assignor to Monarch Cycle Manufacturing Company, Chicago, Ill. Bicycle-brake	600,474	Mar. 8	1552	357	82	1534
Birner, Charles P., assignor to Monarch Cycle Manufacturing Company, Chicago, Ill. Bicycle-brake	604,362	May 24	2104	472	83	1078
Birner, Charles P., assignor to Monarch Cycle Manufacturing Company, Chicago, Ill. Housing for screw-threaded cycle parts	611,194	Sept. 20	1889	436	84	1840
Birnie, Alfred. (See Holcomb, Charles M., assignor.)						
Birrell, Daniel S., Warrington, England. Loom for weaving wire	611,602	Oct. 4	12	3, 4	85	4
Birtwisle, John, Manchester, England. Tool for making joints	605,195	June 7	248	58	83	1397
Bisbee, Asa C., Carsonville, Mich. Book-holder	597,704	Jan. 25	2154	504	82	469
Bishop, Alfred. (See Bishop, Walter B. and A.)						
Bishop, Alice R., Atlanta, Ind. Curtain-ring	599,762	Mar. 1	156	38	82	1245
Bishop, Alice R., Atlanta, Ind. Table-cloth supporter	606,267	June 28	2303	533	83	1847
Bishop & Babcock Company. (See Champ, Joseph H., assignor.)						
Bishop & Co., George H. (See Wuest, Frederick, assignor.)						
Bishop, James D., New York, N. Y. Apparatus for electrically working metals	604,137	May 17	1670	375	83	973
Bishop, Jane E. (See Wells, Arthur W., assignor.)						
Bishop, Walter B. and A., London, England. Making piperazin salts	597,454	Jan. 18	1737		82	371
Bishop, Webster. (See Gould, William F., assignor.)						
Bisler, Gustav A., Philadelphia, Pa. Paper box	610,255	Sept. 6	206	46	84	1482
Bisler, Gustav A., Philadelphia, Pa., assignor to United States Playing Card Company, Cincinnati, Ohio. Duplicate-whist apparatus	616,433	Dec. 20	2263	528	85	1888
Bissell Carpet Sweeper Company. (See Drew, Walter J., assignor.)						
Bissell, Frank H. (See Neil and Bissell.)						
Bissell, Frank H. (See Tiffany, Albert R., assignor.)						
Bissell, Orrin A., New Milford, Ohio. Switch	600,302	Mar. 8	1260	287	82	1479
Bissett, George W., Brunswick, Md. Device for removing cylinder-heads	597,136	Jan. 11	1191	280	82	248
Bistline, Samuel N., Andersonburg, Pa. Sulky-cultivator	611,554	Sept. 27	2596	599	84	1992
Bitner, Harry, Chicago, Ill. Electric locomotive	600,134	Mar. 8	982	218 219	82	1426
Bittinger, F. D. (See Gardner, George L., assignor.)						
Bixby, Alfred, Evansville, Ind. Thill-coupling	616,820	Dec. 27	2982	695	85	2047
Bixby, John L., Arlington, assignor to N. Conant, Brookline, Mass. Annunciator gas-fixture	608,100	July 26	2907	622	84	619
Black, Albert B., Lexington, Mass. Cart-body	599,826	Mar. 1	290	65	82	1267
Black, Charles N., New Haven, Conn., assignor to Walker Company, Cleveland, Ohio. Electric-arc lamp	599,032	Feb. 15	1651	390 391	82	951
Black & Clawson Company. (See Black, Clawson, and Connelly, assignors.)						
Black & Clawson Company. (See Joslin and Schmidt, assignors.)						
Black & Clawson Company. (See Schmidt, Herman B., assignor.)						
Black, Clement B. (See Chambliss, Lee R., assignor.)						
Black, Crosby M. (See Dougherty, William, assignor.)						
Black, David, Shettleston, Scotland. Machine for molding bricks, tiles, &c	614,606	Nov. 22	2473	564	85	1140
Black, David G., <i>et al.</i> (See Gardanier, George W., assignor.)						
Black, Frank X., L. P. Clawson, and J. A. Connelly, assignors to Black & Clawson Company, Hamilton, Ohio. Evaporator	614,607	Nov. 22	2475	565	85	1140
Black, Henry C., Oakland, Cal. Drawing beer or similar liquids	607,979	July 26	2686	573	84	573
Black, J. H., <i>et al.</i> (See Dillon, Jerome B., assignor.)						
Black, Jennie L., Freeport, Ohio. Compressed-meat can	601,931	Apr. 5	584	121 122	83	111
Black, John L., assignor to Black Manufacturing Company, St. Louis, Mo. Valve	605,693	June 14	1168	269	83	1595



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Black, John W., <i>et al.</i> (See Adcock, Arthur, assignor.)						
Black, Joseph. (See Ramage, Alexander S., assignor.)						
Black, Joseph A., Parnell, Iowa. Sash-fastener	602,051	Apr. 12	801	173	83	163
Black, Laura M., San Antonio, Cal. Dust-pan	603,003	Apr. 26	2454	558	83	510
Black, Lee. (See Beucus and Black.)						
Black Manufacturing Company. (See Black, John L., assignor.)						
Black, Sam. (See Hearn, Robert, assignor.)						
Black, Thomas C., assignor to J. B. Jones and C. B. Myers, Little Rock, Ark. Cotton-seed-delinting machine	614,435	Nov. 22	2165	498	85	1086
Black, Walter, Chicago, Ill. Mortising-machine	605,774	June 14	1301	301	83	1620
Blackburn, Allen H., Petaluma, Cal. Fruit-drier	597,257	Jan. 11	1383	323	82	284
Blackburn, Monroe, Bedford, Ind. Truck	601,231	Mar. 29	2856	652 653	82	1842
Blackford, Atwell J., Cleveland, Ohio. Oil-burner	607,641	July 19	2051	427	84	435
Blackford, William H., assignor to Detroit Casket Company, Detroit, Mich. Burial-casket	609,262	Aug. 16	2059	489	84	1085
Blackman, Charles M., New York, N. Y. Atomizer	613,222	Oct. 25	2882	679	85	599
Blackman, Horace, H. Cone, and B. J. Neill, San Francisco, Cal. Wrapping and Package-containing paper	611,373	Sept. 27	2268	524	84	1930
Blackmarr, Frederick S., Minneapolis, Minn. Washing-machine	607,911	July 26	2572	545	84	551
Blackmore, Henry S., Mount Vernon, N. Y. Making sulfids	605,458	June 7	749		83	1497
Blackmore, Henry S., Mount Vernon, N. Y. Making cyanids	605,694	June 14	1168		83	1595
Blackmore, Henry S., Mount Vernon, N. Y., assignor to Pure Aluminium and Chemical Company, of West Virginia. Making aluminium sulfid	605,378	June 7	619		83	1470*
Blackmore, Henry S., Mount Vernon, N. Y., assignor to Pure Aluminium and Chemical Company, of West Virginia. Retort and making same	605,379	June 7	620		83	1470
Blackmore, Henry S., Mount Vernon, N. Y., assignor to Pure Aluminium and Chemical Company, of West Virginia. Producing aluminium sulfid and reducing same to metallic state	605,380	June 7	621		83	1470
Blackmore, Henry S., Mount Vernon, N. Y., assignor to Pure Aluminium and Chemical Company, of West Virginia. Making aluminium sulfid	605,812	June 14	1384	317	83	1635
Blackmore, John H. (See Tilby and Blackmore.)						
Blackmore, Joseph J., Jersey City, N. J. Water-tube safety-boiler	615,242	Dec. 6	17	4	85	1414
Blackmore, Lawrence R., Newark, N. J. Printing-stamp	605,945	June 21	1671	383	83	1708
Blackmore, Sidney P., assignor of two-thirds to R. O. G. Drummond and E. J. Way, Johannesburg, South African Republic. Rock or like drill	602,693	Apr. 19	1916	436	83	393
Blackmore, William. (See Harris and Blackmore.)						
Blackstone, Clarence W. (See Knapp and Blackstone.)						
Blackwell, Benjamin R., Jamaica, N. Y. Printer's chase	596,954	Jan. 4	870	204	82	169
Blackwell, Harry, assignor to Whitmore, Robinsons & Company, Akron, Ohio. Glazing-tub	597,835	Jan. 25	2384	555	82	514
Blackwell, Henry F., Jr., Brooklyn, N. Y. Automatic cut-out	601,492	Mar. 29	3329	753	82	1934
Blackwell, Mat, assignor of one-half to W. E. and O. S. Burns, Lebanon, Va. Pipe-wrench	612,454	Oct. 18	1520	365	85	316
Blackwood, Andrew J. (See Wingett and Blackwood.)						
Blackwood, Andrew J., Stirling, Kans. Attachment for tops of vessels used in making tea or coffee, &c.	608,641	Aug. 9	855	197	84	843
Blaine, William T. (See Hoff, John A., assignor.)						
Blair, C. C., <i>et al.</i> (See Downa, James R., assignor.)						
Blair, George W., Pittsburg, Pa. Manufacture of glassware	604,959	May 31	3145	723	83	1294
Blair, Herman E. (See Hobson and Blair.)						
Blair, Thomas H., Northborough, Mass. Kinetographic camera	611,231	Sept. 27	1984	458	84	1878
Blair, William, Longton, England. Inflating-nipple for pneumatic tires	615,670	Dec. 13	837	194	85	1590
Blais, Joseph, Sherbrooke, Canada. Vehicle-wheel	610,468	Sept. 6	614	137 138	84	1556
Blaisdell, James M., Winthrop, Mass, assignor to Perfection Labeling Machine Company, of Maine. Paper-feeding machine	604,892	May 31	3035	697	83	1273
Blake, Alonzo E., Wilmington, N. C. Seed-planter	604,017	May 17	1449	324	83	932
Blake, Frank O., Burlington, Vt. Apparatus for spraying poison on plants	598,846	Feb. 8	1313	318	82	869
Blake, Fred H., Worcester, Mass. Lock	597,382	Jan. 18	1599	372	82	345
Blake, Isabel W., and M. V. Hull, West Haven, Conn. Bowl-holder	600,506	Mar. 15	1634	373	82	1570
Blake, John H., New York, N. Y. Magazine bolt-gun	608,023	July 26	2787	593 594	84	595
Blake, Millard F., assignor of one-fourth to J. S. Bowers, Martinsburg, Pa. Freight-car	600,631	Mar. 15	1839	421	82	1608
Blake, William B., and S. Hubbard, Bedford, Ohio. Chemical fire-extinguisher	611,555	Sept. 27	2600	600	84	1993
Blakeslee, Cornelius. (See Blakeslee, Raymond I., assignor.)						
Blakeslee, Elmer M., <i>et al.</i> (See Parsons, Willard T., assignor.)						
Blakeslee, Raymond I., assignor to C. Blakeslee, Rutherford, N. J. Question-answering device	600,997	Mar. 22	2458	560	82	1739
Blanc, Louis M. V., Paris, France. Apparatus for preventing escape of steam from boilers in case of rupture of pipe	597,810	Jan. 25	2341	547	82	505
Blanchard, Allen I., Chicago, Ill., assignor to National Cash Register Company, Dayton, Ohio. Cash-register	610,379	Sept. 6	460	100 101	84	1527
Blanchard, A. H. (See Arnn, McKenzie, assignor.)						
Blanchard, Frederick G., assignor to American Optical Company, Southbridge, Mass. Lens-cutting machine	602,207	Apr. 12	1079	236 237	83	217
Blanchard, Helen A. (See Strain, Edwin, assignor.)						
Blanchard, Helen A., New York, N. Y. Sewing-machine	612,011	Oct. 11	750	185	85	157
Blanchard, John C., Jr., Hyde Park, Mass. Removable bicycle-handle	605,626	June 14	1049	241	83	1572
Blanchard, Kirk S., Albion, N. Y. Drier	596,470	Jan. 4	6	3	82	4
Blanchard, Marcus, Gloversville, N. Y. Detachable tip for fence-posts	614,436	Nov. 22	2168	498	85	1086
Blanchard, Roscoe H., Winsted, Conn., and F. B. Vaughn, Mooers Forks, N. Y. Stone-picker	597,491	Jan. 18	1800	417	82	383
Blanchard, William N., Southbridge, Mass. Eyeglasses	597,941	Jan. 25	2562	598	82	547
Bland, Henry, Waverly, assignor to J. Martin, Sydney, New South Wales. Sheep-shears	614,078	Nov. 15	1488	341 342	85	948
Blanding, Francis, New London, assignor of one-half to W. S. Johnson, Putnam, Conn. Safety device for elevators	613,791	Nov. 8	1015	232	85	830
Blane, Gilbert G., Windsor, England. Attachment for overalls, leggings, trousers, &c	602,299	Apr. 12	1238	272	83	249
Blaney, Frank M., <i>et al.</i> (See Evans, William F., assignor.)						
Blank, August. (See Krekeler and Blank.)						
Blank, August. (See Krekeler, Israel, and Blank.)						
Blankenship, John R., Houston, Mo. Adjustable gate-hinge	597,383	Jan. 18	1601	372	82	346
Blanton, Edward A., Jr., Ridley Park, Pa. Coupling for shafts	601,232	Mar. 29	2858	653	82	1842
Blanton, Edward A., Jr., Ridley Park, Pa. Filling-piece for cans	611,556	Sept. 27	2602	600	84	1993
Blase, William O., Wilkes-Barré, Pa. Smoke-deflector and cleaner for tobacco-pipes	612,657	Oct. 18	1896	449	85	387



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Blaser, Emanuel, California, Mo., assignor to C. G. Corrao, Mattapan, Mass. Electric-arc lamp	597,601	Jan. 18	1973	459	82	419
Blashfield, James M., Jackson, Mich. Adjustable handle-bar for bicycles	610,469	Sept. 6	615	138	84	1556
Blasse, Alfred R., Frostburg, Md. Hot-air furnace	603,809	May 10	1025	228	83	817
Bláthy, Otto T., and K. de Kándó, Buda-Pesth, Austria-Hungary. Means for preventing disturbances in telephonic circuits	606,912	July 5	494	108	84	98
Blatt, Michael, New York, N. Y. Wick for candles	613,440	Nov. 1	416	85	85	695
Blatter, George J., Chicago, Ill. Holder for designating-symbols	615,341	Dec. 6	208	51	85	1453
Blauhorn, Ludwig, <i>et al.</i> (See Rausch, Rudolf, assignor.)						
Blauvelt, Orlando W. (See Rudy, William W., assignor.)						
Blazer, Almer N., assignor of one-half to F. I. Otis, Mescalero, N. Mex. Ter. Power-wheel	611,098	Sept. 20	1722	395	84	1808
Blazer, Almer N., assignor of one-half to F. I. Otis, Mescalero, N. Mex. Ter. Rotary engine	612,304	Oct. 11	1267	306	85	255
Blazier, Oscar V., Gillette, assignor of one-half to W. A. Woodruff, Plainfield, N. J. Bottle	603,019	Apr. 26	2475	562	83	514
Bleakly, Hugh, and F. L. Vessieriat, Alliance, Ohio. Filter	607,155	July 12	979	211 212	84	206
Blechynden, Alfred, Barrow-in-Furness, England. Feed-water regulator for boilers	608,568	Aug. 9	710	161 162	84	816
Bleier, Otto, Vienna, Austria-Hungary. Apparatus for gas analysis	605,991	June 21	1762	404	83	1724
Blekkink, Evert J., Amsterdam, N. Y. Detachable hinge	607,156	July 12	980	212	84	206
Blend, Wellington, Yonkers, N. Y. Penholder	597,942	Jan. 25	2563	598	82	547
Blenkhorn, H. Z., <i>et al.</i> (See Rowley, Tracy D., assignor.)						
Blenkner, Fred C., Columbus, Ohio. Die for producing jewel-receiving pins	607,597	July 19	1972	409	84	419
Blessing, John G., assignor to A. Tuerk, Chicago, Ill. Time-stamp	602,026	Apr. 5	757	162 163 164	83	143
Blessing, Louis. (See Likins, William H., assignor.)						
Bleyer, Samuel T. (See Ferreira, Charles E., assignor.)						
Blickenderfer, Richard. (See Rote, Charles V., assignor.)						
Bligh, Samuel L., Custards, Pa. Fire-kindler	611,232	Sept. 27	1987	458	84	1878
Blimline, Emanuel J., <i>et al.</i> (See Wetzler, Leo, assignor.)						
Bliss, Annie L., Springfield, Mass. Cooking utensil	597,535	Jan. 18	1859	431	82	395
Bliss, Dwight J., and E. J. Richmond, Carthage, Mo. Roller-shade fixture	598,409	Feb. 1	595	146	82	716
Bliss, Dwight J., and E. J. Richmond, Carthage, Mo. Water-filter	611,426	Sept. 27	2370	544	84	1948
Bliss, John L., New York, N. Y. Ship's log	615,422	Dec. 6	389	93	85	1489
Bliss, Rosa A., Omaha, Nebr. Bonnet or hat	612,796	Oct. 18	2143	509	85	435
Bliss, William G., Constantinople, Turkey. Privy-stool	604,597	May 24	2528	575	83	1156
Bliss, William L., Brooklyn, N. Y. System of electrical distribution	601,233	Mar. 29	2860	653	82	1843
Bloch, Adolph, <i>et al.</i> (See Kraemer, Frank, assignor.)						
Bloch, Isidore, Paris, France. Hermetic fastening for preserve or other tins	601,787	Apr. 5	317	63	83	60
Block, Carl, St. Louis, Mo. Horse-collar	609,328	Aug. 16	2173	513	84	1108
Block, Harry, <i>et al.</i> (See Heath, Heber L., assignor.)						
Block, Leopold, <i>et al.</i> (See Heath, Heber L., assignor.)						
Block, Willard T. (See Kimburg, Peter A., assignor.)						
Blodgett, Aaron D., Newton, Mass. Secondary electric clock	604,453	May 24	2260	508	83	1108
Blodgett, Alden B., assignor to C. H. McEvoy, Lowell, Mass. Tip for electric conductors	598,972	Feb. 15	1548	367	82	930
Blodgett, Charles S., Central City, Iowa. Corn-harvester	600,853	Mar. 22	2220	506	82	1695
Blodgett, Harrison H., Omaha, Nebr. Wood-preserving composition	606,702	July 5	121	84	84	26
Blodgett, Henry. (See Noel, Louis, assignor.)						
Blodgett, Stephen H., Cambridge, Mass. Safety gas-burner	615,011	Nov. 29	3226	742	85	1303
Blom, Tage, Copenhagen, Denmark. Lubricator	610,222	Sept. 6	150	34	84	1471
Blomén, Jonas E., Washington, D. C., assignor to Joveite Manufacturing Company, of Virginia. Making explosives	599,589	Feb. 22	2668	82	82	1166
Blomstrom, Charles, Minneapolis, Minn. Hand-vice	598,898	Feb. 15	1404	338	82	903
Blondel, André, and G. Sautter, Paris, France. Converter for monophase currents	596,567	Jan. 4	187	42	82	38
Blood, Charles W. H. (See Tillison and Blood.)						
Blood, Charles W. H., Boston, Mass. Self-oiling loose pulley	613,657	Nov. 8	767	176	85	784
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Self-oiling bearing	607,980	July 26	2688	573	84	573
Blood, George B., Pittsburg, Pa. Reflector-holder	609,004	Aug. 16	1558	371	84	990
Blood, John B., <i>et al.</i> (See Cooper, William, assignor.)						
Blood, Louis H., Hartford, Conn. Turret mechanism	612,154	Oct. 11	997	242	85	205
Blood, Louis H., Hartford, Conn. Turret mechanism	612,155	Oct. 11	1004	242	85	206
Bloom, Benjamin D. (See Wampler and Bloom.)						
Bloom, C. C. (See Maddox, John A., assignor.)						
Bloom, Samuel S. (See Page and Bloom.)						
Bloomer, Reuben H., Council Bluffs, Iowa. Wire fencing	611,673	Oct. 4	144	35	85	31
Bloomer, Reuben H., Council Bluffs, Iowa. Woven-wire fence	615,671	Dec. 13	839	194	85	1590
Bloomer, Samuel, Stillwater, Minn. Cloth-holder	599,072	Feb. 15	1711	406	82	963
Bloomfield, Joseph H. (See Nelson, Charles F., assignor.)						
Blossom, Edwin F., Lynn, assignor to Goodyear Shoe Machinery Company, Boston, Mass. Shoe	601,234	Mar. 29	2867	654	82	1845
Blossom, Herbert, New York, N. Y. Saddle for velocipedes	607,651	July 19	2072	432	84	438
Blount, Frederick R., New York, N. Y. Hydrocarbon-burning apparatus or lamp	614,079	Nov. 15	1492	342	85	945
Blount, Frederick R., New York, N. Y. Hydrocarbon-burning apparatus or lamp	614,080	Nov. 15	1495	342	85	946
Blount, Frederick R., New York, N. Y. Hydrocarbon-burning apparatus or lamp	614,081	Nov. 15	1496	343	85	947
Blount, Frederick R., New York, N. Y. Hydrocarbon-burning apparatus or lamp	614,417	Nov. 15	2130	490	85	1065
Blount, Frederick R., New York, N. Y. Hydrocarbon-burning apparatus or lamp	614,418	Nov. 15	2131	491	85	1065
Blount, John G. (See Fox, Blount, and Noyes.)						
Blount Manufacturing Company. (See Russell, Frederic T., assignor.)						
Blower, J. W. (See Jones, John P., assignor.)						
Blum, Leon, <i>et al.</i> (See Labatt and Lewis, assignors.)						
Blum, Rudolf, New York, N. Y. Chimney top and ventilator	612,638	Oct. 18	1861	440	85	380
Blum, Sylvain. (See Eldridge, Clark, and Blum.)						
Blum, Sylvain, <i>et al.</i> (See Clark, George G., assignor.)						
Blumenberg, Henry, Jr., New York, N. Y. Transforming potential energy of carbon into electrical energy	599,094	Feb. 15	1738	412	82	968
Blumenthal, Louis, New York, N. Y. Time-stamp	612,697	Oct. 18	1956	463	85	399
Biye, Harry C. (See Koch, Gustave, assignor.)						
Blyer, William, St. Louis, Mo. Bicycle-lock	615,659	Dec. 6	819	189 190	85	1574
Boak, Gurley, and E. A. Erickson, Bandon, Oreg. Oar-lock	598,847	Feb. 8	1315	318	82	870
Boalt, William L. (See Holzhausen, Friedrich von, assignor.)						
Board, James L. (See Holden and Board.)						
Boardman, Charles H., Columbus, Ohio. Chain for mining-machines	596,673	Jan. 4	379	85	82	76
Boardman, Samuel H. (See Clark, John L., assignor.)						
Boardman, Walter L., Decatur, Ill. Wagon-brake	606,403	June 28	2552	591	83	1894



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Boas, Moritz. (See Terrot, Charles, assignor.)						
Boas, Moritz, <i>et al.</i> (See Choquette, Joseph, assignor.)						
Boasso, Eugene D., assignor of one-half to H. M. Cotten, Charenton, La. Weighted nut-lock	609,325	Aug. 16	2170	513	84	1107
Bobrick, Gabriel A., Boston, Mass. Adjustable furniture	605,306	June 7	476	107	83	1442
Bobsien, August, New York, N. Y. Machine for ironing brims of straw hats	602,280	Apr. 12	1203	264	83	242
Boch, John W., East Liverpool, Ohio. Electrical insulator and making same	600,475	Mar. 8	1553	357	82	1534
Boch, John W., assignor to R. Thomas & Sons Company, East Liverpool, Ohio. High-potential insulator	601,195	Mar. 22	2785	637	82	1801
Boch, Philipp, Long Island City, assignor of two-thirds to J. D. Strahmann and C. Herrmann, New York, N. Y. Automatic switch	601,049	Mar. 22	2539	577 578	82	1755
Boch, Philipp, Long Island City, assignor of two-thirds to J. D. Strahmann and C. Herrmann, New York, N. Y. Railway-switch	601,050	Mar. 22	2541	578	82	1755
Bock, Alexander, Copenhagen, Denmark. Candle-burning lantern for vehicles, &c	611,099	Sept. 20	1724	396	84	1809
Bock, Johannes, Radebeul, Germany. Process of and apparatus for obtaining crystals	616,821	Dec. 27	2983	695	85	2047
Bockhoff, William F., Indianapolis, Ind. Cash-register	616,866	Dec. 27	3119	722 723 724	85	2075
Bocquet, Albert E., Maromme, France. Gas cock or valve	615,243	Dec. 6	20	5	85	1415
Boddam, Edmund M. T., assignor of one-tenth to G. G. Turri, Melbourne, Victoria. Pneumatic gun	605,216	June 7	291	67, 68	83	1405
Boddam, Edmund M. T., assignor of one-tenth to G. G. Turri, Melbourne, Victoria. Producing and storing gas under high pressure	605,217	June 7	298	69	83	1407
Bodeman, Henry W., assignor of one-half to M. H. Logan, San Francisco, Cal. Fender for street-cars	599,281	Feb. 15	2054	488	82	1026
Boden, Edmund P., Santa Clara, Cal. Tree or vine puller	599,217	Feb. 15	1946	462	82	1005
Bodine, Gust. (See Halm and Bodine.)						
Bodine, William I. (See Meyer, Bodine, and Rule.)						
Bodley, James W. (See Mallon, James, assignor.)						
Bodley, James W., Staunton, Va. Apparatus for unloading sugar-cane from cars, &c	611,167	Sept. 20	1849	426	84	1832
Bodnar, Franz X., and S. L. Kreppel, Vienna, Austria-Hungary. Coin-operated lock mechanism	610,578	Sept. 13	808	185	84	1610
Bodwell, Sanford, Providence, R. I. Glove-case	615,790	Dec. 13	1051	247	85	1631
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Oil-stove	603,123	Apr. 26	2659	604	83	550
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Blue-flame oil-stove	603,124	Apr. 26	2661	604 605	83	550
Boeckenkamp, George H. (See Lufsky, Charles, assignor.)						
Boedeker, Hermann, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Making sulfonic acids of asymmetric rhodamins	615,791	Dec. 13	1052	-----	85	1631
Boehler, Joseph A., Chicago, Ill. Copy-holder	599,889	Mar. 1	407	90, 91	82	1290
Boehm, Abraham, <i>et al.</i> (See Rowan, James H., assignor.)						
Boehm, Charles J., Milwaukee, Wis. Tellurian	613,111	Oct. 25	2678	633 634	85	559
Boehmer, Frank A., <i>et al.</i> (See Pugsley, William E., assignor.)						
Boehmer, Henry. (See Foster, William C., assignor.)						
Boehner, William, Chicago, Ill. Bookbinding	607,012	July 12	680	148	84	155
Boehringer & Soehne, C. F. (See Fischer, Emil, assignor.)						
Boehringer Sohn, C. H. (See Dreher, Carl, assignor.)						
Boening, Ernest, assignor of three-fourths to W. D. Baldwin, Yonkers, and J. H. Walling, Brooklyn, N. Y. Measuring-faucet	603,983	May 10	1326	304	83	874
Boening, Ernest, assignor of three-fourths to W. D. Baldwin, Yonkers, and J. H. Walling, Brooklyn, N. Y. Beer-measuring faucet	603,984	May 10	1328	304	83	874
Boening, Ernest, assignor of three-fourths to W. D. Baldwin, Yonkers, and J. H. Walling, New York, N. Y. Measuring-faucet	612,658	Oct. 18	1897	449	85	387
Boeschstein, Albert E., assignor to Manhattan Electric Company, St. Louis, Mo. Reflector	615,471	Dec. 6	479	111	85	1504
Boettler, William D., Olden, Mo. Wagon-coupling	612,814	Oct. 25	2186	520	85	462
Bofinger, Eugene A., New York, N. Y. Palette	616,286	Dec. 20	1991	463	85	1833
Bogani, Arthur H., assignor to Foot Manufacturing Company, New York, N. Y. Composition for buffing-wheels	609,326	Aug. 16	2171	-----	84	1107
Bogart, Adrian L., Jamaica, assignor to W. B. M. Jordan, New York, N. Y. Static-induction electric generator	597,137	Jan. 11	1192	280	82	248
Bogart, Adrian L., Jamaica, assignor to W. B. M. Jordan, New York, N. Y. Induction-coil	605,174	June 7	207	52	83	1390
Bogart, Adrian L., Jamaica, assignor to W. B. M. Jordan, New York, N. Y. Insulating electrodes for electric gas-lighting burners	605,661	June 14	1106	255	83	1583
Bogart, Charles V., Fitchburg, Mass. Centering-gage	610,021	Aug. 30	3423	793	84	1381
Bogel, Henry F., assignor of two-thirds to H. Stelling and G. M. Lawton, San Francisco, Cal. Curtain-hanger	609,179	Aug. 16	1888	449	84	1048
Boggis, Elizabeth, Philadelphia, Pa. Stamp and envelop moistener	608,642	Aug. 9	856	197	84	843
Boggis, Henry, Philadelphia, Pa. Stovepipe	613,554	Nov. 1	606	139	85	731
Bogisch, Alfred, assignor to Firm of J. Hauff, Feuerbach, Germany. Photographic developer	608,147	July 26	2978	-----	84	633
Bogisch, Alfred, assignor to J. Hauff & Co., Gesellschaft mit Beschränkter Haftung, Feuerbach, Germany. Photographic developer and process of developing	615,792	Dec. 13	1053	-----	85	1631
Bogle, Walter S. (See Notter, Charles H., assignor.)						
Bogler, Philip, Alamosa, Colo. Metal railway-tie	598,692	Feb. 8	1077	259	82	824
Bogroff, Carl, Odessa, Russia. Steam-radiator	605,775	June 14	1303	301	83	1620
Bohler, John F., Pandora, Ohio. Bolster-spring	610,841	Sept. 13	1256	290	84	1703
Böhm, Ludwig K., New York, N. Y., assignor to Electro Gas Company, of West Virginia. Acetylene-gas tip	606,441	June 28	2629	604	83	1911
Böhm, Ludwig K., New York, N. Y., assignor to Electro Gas Company, of West Virginia. Acetylene-gas generator	609,494	Aug. 23	2486	581	84	1185
Böhmer, Eduard, Schröttersdorf, Germany. Balance	598,073	Feb. 1	7	2	82	604
Bohn, René, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue-black dye and making same	609,327	Aug. 16	2171	-----	84	1107
Bohner, George, Chicago, Ill. Crushed-fruit dish	599,651	Feb. 22	2795	650	82	1193
Bohrisch, Richard, East Las Vegas N. Mex. Ter. Sash-supporter	600,707	Mar. 15	1977	450	82	1634
Boice, Martin, Mitchell, S. D. Harvester	598,848	Feb. 8	1316	318	82	870
Boig, James H., Liverpool, England. Game apparatus	607,013	July 12	681	148	84	155
Boimare, Pierre, Paris, France. Furnace	608,826	Aug. 9	1208	282	84	908
Bois, James M., East Aurora, N. Y. Apparatus for manufacturing gas	615,523	Dec. 6	574	131 132	85	1523
Boissier, Hermann R., New York, N. Y. Electroplating apparatus	611,100	Sept. 20	1725	396	84	1809
Bokelmann, Herman H., assignor of one-half to H. Purcell, Newark, N. J. Fruit or other jar	603,020	Apr. 26	2476	562	83	514



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Boland, Ella E., <i>et al.</i> (See Boland, Joseph, assignor.)						
Boland, Ella E., <i>et al.</i> (See Wagener, Otto E., assignor.)						
Boland, John, Decatur, assignor of one-half to C. E. Peebles, Raymond, Ill. Acetylene-gas-generating apparatus	608,643	Aug. 9	857	197	84	843
Boland, Joseph, assignor to C. H. Lloyd and E. E. Boland, Pittsburg, Pa. Curtain-pole bracket	608,870	May 10	1146	258	83	839
Boldt & Vogel. (See Mentze, Hugo W. E., assignor.)						
Bole, William A., and T. J. Hogan, Pittsburg, Pa. Igniting device for gas-engines	611,348	Sept. 27	2202	508 509 510	84	1918
Boleman, Sidi K. (See Oden and Boleman.)						
Boleman, Thomas F. (See Seymour and Macy, assignors.)						
Bolen, Charles. (See Wilson, Nelson, assignor.)						
Bolens, Harry W., Port Washington, Wis. Chair	600,854	Mar. 22	2223	506	82	1696
Boley, Benjamin. (See Griffin, James A., assignor.)						
Boley, Benjamin. (See Sussman, Jokub W., assignor.)						
Boley, Max W. (See Harris, Jonathan, assignor.)						
Bolinder, Erik A., Stockholm, Sweden. Self-closing cock or tap-valve	607,210	July 12	1072	232	84	223
Bolinski, Herman J., New London, Wis. Stock feeder and waterer	609,728	Aug. 23	2897	677	84	1264
Bollée, Léon, Le Mans, France. Self-propelling vehicle	601,545	Mar. 29	3414	775	82	1953
Bolles, Archibald L., assignor of one-half to F. C. Kohart, New York, N. Y. Window-sash	612,921	Oct. 25	2377	566 567	85	498
Bolman, Robert, <i>et al.</i> (See Klose, Karl A., assignor.)						
Bolsom, A. J. (See Savage, Alexander J., assignor.)						
Bolton, Calvin O., Denver, Mich. Whiffletree-hook	605,381	June 7	623	139	83	1471
Bolton, Orrin B., assignor of three-fourths to F. A. Baldwin, V. M. Tuthill, Grand Rapids, Mich., and M. D. Baldwin, Kalispell, Mont. Bandsaw-grinder	612,698	Oct. 18	1958	464	85	399
Bolzani, Anton, Berlin, Germany. Brake for hoists or similar apparatus	606,268	June 28	2304	533 534	83	1847
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen	599,590	Feb. 22	2670	624	82	1166
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen	599,591	Feb. 22	2670	625	82	1167
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen	599,592	Feb. 22	2671	625	82	1167
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen	610,428	Sept. 6	542	119	84	1542
Bomford, Benjamin. (See Bomford and Evershed.)						
Bomford, Raymond, Salford Priors, B. Bomford, Harrington, and H. Evershed, Salford Priors, assignors to Road Breaking Company, (Voysey and Hosacks Patents,) Limited, London, England. Apparatus for scarifying and breaking roads	606,641	July 5	8	2	84	4
Bonafede, Carlo, Rome, Italy. Automatic funnel	610,521	Sept. 13	712	161 162	84	1592
Bonardi, Jean F. G. de, Versailles, and A. D. F. de Villepigue, Paris, France. Garbage-burning furnace	600,855	Mar. 22	2224	507	82	1696
Bond, Charles, Whifflet, Scotland. Gas-heated furnace	613,961	Nov. 8	1294	294	85	884
Bond, Henry F., Newton, Mass. Hay-tedder	598,623	Feb. 8	958	231	82	802
Bond, James, Toronto Junction, Canada. Coal stove or furnace	616,651	Dec. 27	2683	621	85	1986
Bond, John J. C., <i>et al.</i> (See Cozine, Charles G., assignor.)						
Bond, Samuel H., Washington, D. C. Automatic fruit-gatherer	601,235	Mar. 29	2868	654	82	1845
Bond, Walker J., Atoka, Ind. Ter. Lumber-wagon	608,644	Aug. 9	859	198	84	844
Bond, William F., Morrisdale Mines, Pa. Combination railway-tie	598,764	Feb. 8	1188	286	82	845
Bond, William H., Nesquehoning, Pa. Rotary engine	612,962	Oct. 25	2443	582	85	512
Bone, William L., Manchester, England. Low-water-alarm and safety valve	606,832	July 5	371	79	84	74
Bones, George J., and L. H. Hart, Melbourne, Victoria. Cycle racing or exercising machine	613,962	Nov. 8	1296	294 295	85	884
Bonet, Leopold, Chicago, Ill. Velocipede-saddle support	609,076	Aug. 16	1693	403	84	1015
Bonham, Gray, Shreveport, La. Apparatus for draining dishes	614,827	Nov. 29	2861	658	85	1231
Bonham, S. R., <i>et al.</i> (See Bonham, William P., assignor.)						
Bonham, William P., assignor to S. R. Bonham and O. C. Sprinkle, Marion, Va. Wheel-repairing device	597,455	Jan. 18	1738	402	82	371
Böniger, Melchior, assignor to Chemische Fabrik, vormals Sandoz, Basle, Switzerland. Blue-black mixed trisazo dye	601,083	Mar. 22	2518		82	1750
Böniger, Melchior, assignor to Chemische Fabrik, vormals Sandoz, Basle, Switzerland. Brown azo dye	608,024	July 26	2794		84	597
Bonnell, Bertrand L., Donnellson, Iowa. Railway-switch	608,569	Aug. 9	711	163	84	817
Bonnell, Russell. (See Schmitt and Bonnell.)						
Bonnett, John C., Brookville, Pa. Automatic overhead joist-boring machine	596,471	Jan. 4	8	3	82	4
Bonsall, Seymour W., New York, N. Y. Dress-skirt and wardrobe trunk	604,346	May 17	2070	463	83	1051
Bonta Glass Pipe and Conduit Company. (See Bonta, James W., assignor.)						
Bonta, James W., Wayne, assignor to Bonta Glass Pipe and Conduit Company, Scranton, Pa. Process of and apparatus for annealing glass pipe	614,529	Nov. 22	2324	533 440	85	1114
Bontempi, Augusto, Florence, Italy. Sculpturing-machine	599,160	Feb. 15	1859	441	82	988
Bonus, Peter, assignor of two-thirds to R. Knerr and O. Gessner, Philadelphia, Pa. Safety-gate for drawbridges	612,581	Oct. 18	1743	413	85	358
Bonwell, William H., Jr., Whitcomb, Ind. Car-coupling	607,334	July 12	1313	280	84	271
Bonzagni, Vincenzo, Boston, Mass. Apparatus for cleansing beer-pipes, &c	598,301	Feb. 1	413	97	82	680
Bonzano, Adolphus, Philadelphia, Pa. Strut-tie for preventing creeping of rails	611,101	Sept. 20	1728	396	84	1810
Booker, Charles, Toronto, Canada. Device for preventing refilling of bottles	596,472	Jan. 4	10	3	82	5
Boone, George R., assignor of one-half to J. T. Ditto, Decatur, Ill. Inscription-holder for umbrellas, &c	614,197	Nov. 15	1698	390	85	984
Boonen, Louis, Paris, France. Bicycle	604,487	May 24	2341	531	83	1121
Booraem, John F., New York, N. Y. Brick	616,652	Dec. 27	2684	621	85	1986
Boorman, David, A. P. Sharp, and J. O'Neil, Altoona, Pa. Apparatus for removing snow	608,827	Aug. 9	1209	282	84	908
Boorman, David, A. P. Sharp, and J. O'Neil, Altoona, Pa. Apparatus for melting and removing snow	614,198	Nov. 15	1699	390	85	984
Boorum, William B., New York, N. Y. Binding for blank-books	606,116	June 21	2002	459	83	1769
Boos, Charles. (See Stallings, Francis J., assignor.)						
Boos, Joseph B., Carroll, Iowa. Suspenders	609,329	Aug. 16	2175	513	84	1108
Boot, Johannes C., Bath Beach, N. Y. Producing alcohol and yeast	600,708	Mar. 15	1979		82	1635
Booth, George, Toronto, Canada. Dental cuspidor	597,384	Jan. 18	1602	372	82	346
Booth, George, assignor to Toronto Steel Clad Bath and Metal Company, Toronto, Canada. Bath-tub	601,236	Mar. 29	2870	654	82	1845
Booth, Henry A., and J. P. Plummer, assignors of one-fourth to B. Mann, Petersburg, Va. Traveling-trunk	602,027	Apr. 5	761	164	83	144
Booth, Irving E., <i>et al.</i> (See Hatfield, Charles E., assignor.)						
Booth, John, Bellville, Tex. Well-strainer	604,651	May 24	2617	599	83	1174
Booth, John, Terre Haute, Ind. Bicycle-support	608,749	Aug. 9	1037	238	84	878
Booth, John C., and G. Amborn, Jr., assignors to J. H. Williams & Company, Brooklyn, N. Y. Rotary cutter	599,680	Mar. 1	5	2	82	1218



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Booth, Joseph, New York, N. Y. Automatic playing-card shuffler	609,729	Aug. 23	2899	678	84	1265
Booth, Joseph, New York, N. Y. Apparatus for shuffling cards	609,730	Aug. 23	2900	678	84	1265
Booth, Quentin W., <i>et al.</i> (See Hatfield, Charles B., assignor.)						
Booth, T. W. (See Sachse, Paul C., assignor.)						
Booth, Thomas W., Windsor, Canada, assignor to Oscillating Truss Company, Detroit, Mich. Truss	603,004	Apr. 26	2455	559	83	510
Boothman, John, assignor of one-half to W. B. Wood, New Bedford, Mass. Shutter-faster	601,546	Mar. 29	3417	776	82	1953
Borchardt, Hugo, Berlin, Germany. Automatic lighting device for gas-burners	613,057	Oct. 25	2601	616	85	545
Borchardt, Hugo, Berlin, Germany. Automatic lighting device for gas-burners	613,058	Oct. 25	2603	616	85	545
Borcur, Charles M., Dodge City, Kans. Guitar or like instrument	601,071	Mar. 22	2578	588	82	1763
Borcur, Tyoriz M., Dodge City, Kans. Bullet-mold	598,355	Feb. 1	488	117	82	694
Borden, Herbert E., and C. A. Niederstadt, Saginaw, Mich. Bulletin-board	607,419	July 19	1471	311	84	317
Borden, Joel S., Tom's Brook, Va. Window-sash	601,547	Mar. 29	3418	776	82	1954
Bordessoul, Felix, La Garenne-de-Colombes, France. Driving mechanism	614,693	Nov. 22	2633	599	85	1170
Bordner, William H., Burr Oak, Mich. Marsh-horseshoe	603,675	May 10	793	174	83	772
Borelli, Peter, Wapinitia, Oreg. Projectile	609,003	Aug. 16	1557	370	84	990
Borge, Frank, and J. E. Clary, Newman, Cal. Moldboard attachment for plows	611,349	Sept. 27	2207	510	84	1919
Borgfeldt, Heinrich G., Brooklyn, N. Y. Bicycle-step	598,356	Feb. 1	490	117	82	694
Borgström, Henrik E. H., Helsingfors, Russia. Carrying-frame	605,992	June 21	1763	404	83	1724
Borgström, Henrik E. H., Helsingfors, Russia. Carrying-frame	605,993	June 21	1765	405	83	1724
Borgzinner, Louis, Unter-Reichenbach, Germany, assignor to S. & A. Borgzinner, New York, N. Y. Watch-box	600,976	Mar. 22	2420	552	82	1731
Borgzinner, S. & A. (See Borgzinner, Louis, assignor.)						
Boring, William A., New York, N. Y. Building-truss	607,335	July 12	1315	281	84	271
Borios, Alphonse. (See Haigh and Borios.)						
Boris, Pierre J., Boston, Mass. Rotary engine	604,960	May 31	3145	723 724	83	1294
Borka, Joseph, Buffalo, N. Y. Device for suspending arc-lamps	611,766	Oct. 4	298	71	85	61
Borlinghaus, August and L., St. Louis, Mo., assignors to C. E. Udell, trustee. Machine for filling boxes	614,285	Nov. 15	1876	433 434	85	1016
Borlinghaus, August and L., St. Louis, Mo., assignors to C. E. Udell, trustee. Machine for covering boxes	614,286	Nov. 15	1878	434	85	1017
Borlinghaus, Louis. (See Borlinghaus, August and L.)						
Bornman, Fredrick H. and T. C., Summit, Miss. Cultivator	598,849	Feb. 8	1317	319	82	870
Bornman, Thomas C. (See Bornman, Fredrick H. and T. C.)						
Boroughs, George C. (See Jackson and Boroughs.)						
Borrer, William, Jr., Hurstpierpoint, England. Tool	596,568	Jan. 4	189	42, 43	82	38
Borrett, George, and J. R. Crispin, Magnolia, Mass. Mower attachment	615,134	Nov. 29	3460	794	85	1346
Borrmann, William, Norfolk, N. Y., assignor to F. C. Austin, Chicago, Ill. Balance-pump	613,233	Nov. 1	11	3	85	619
Borst, Charles L., Ackerland, Kans. Wire-stretcher	605,848	June 21	1483	339	83	1671
Börsum, Julius, Lillehammer, Norway. Threshing-machine	606,503	June 28	2722	627	83	1929
Bortmann, Gustav, and R. Munkwitz, Leipsic, Germany. Damper device for mechanical musical instruments	599,681	Mar. 1	10	2	82	1219
Bortmann, Gustav, and R. Munkwitz, Leipsic, Germany. Door-stop	610,886	Sept. 20	1342	307	84	1736
Borton, Chester C., assignor of one-half to E. C. Dodge, Chicago, Ill. Side bearing for railway-cars	604,186	May 17	1767	398	83	994
Borton, Fred S., and C. F. Bates, Cleveland, Ohio. Fare-receipt slip	603,826	May 10	1059	236	83	823
Borton, George W., <i>et al.</i> (See Nazel, John, assignor.)						
Borton, J. Harvey, <i>et al.</i> (See Nazel, John, assignor.)						
Borton, Stockton. (See Willcox, Carleton, and Borton.)						
Borton, Stockton. (See Willcox, Gibbs, and Borton.)						
Borton, Stockton, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine	608,317	Aug. 2	261	59, 60	84	707
Bortree, Mary H. (See Bortree, Moses K. and M. H.)						
Bortree, Moses K. and M. H., Grand Rapids, assignors, by mesne assignments, to E. C. Bowling, Detroit, Mich. Lacing-strip	603,313	May 3	116	27	83	624
Borts, Samuel T., <i>et al.</i> (See Gannoe, Thomas A., assignor.)						
Borwell, Frank L., Chicago, Ill. Waterproof material	596,842	Jan. 4	676	156	82	131
Bosanko, Alexander, assignor of one-half to J. Kempenaar, New York, N. Y. Bottle-washer	613,234	Nov. 1	14	4	85	620
Bosanko, Alexander, assignor of one-half to E. J. D. Mountford and W. M. Pindar, Mariner's Harbor, N. Y. Bolting-machine	605,946	June 21	1674	383	83	1708
Bosca, Anadore B., and E. W. Benner, Lowell, Mass. Apparatus for unwinding cylindrical cotton-bales	608,399	Aug. 2	415	91	84	738
Böse, Philipp J., Bremen, Germany. Telephone attachment	597,213	Jan. 11	1315	306 307	82	271
Boska, Henry. (See Brooks, John J., assignor.)						
Bosley, Daniel W., Chicago, Ill. Weather-strip	616,695	Dec. 27	2777	646	85	2005
Bosmann, Nicolas, Chicago, Ill. Refrigerator	600,943	Mar. 22	2367	538	82	1723
Boss, Addy A., assignor of thirty-one forty-eighths to A. C. and A. W. Varney, Detroit, Mich. Automatic temperature-regulator	596,955	Jan. 4	871	204 205	82	169
Bossert Electric Construction Company. (See Bossert and Pomeroy, assignors.)						
Bossert, Frederick, assignor of one-half to J. E. F. Uthes, Detroit, Mich. Signal-alarm	606,043	June 21	1863	429	83	1741
Bossert, Obadiah M., Oakmont, Pa. Combination push-button card receiver and ejector	604,296	May 17	1962	440	83	1031
Bossert, William F., and W. D. Pomeroy, assignors to Bossert Electric Construction Company, Utica, N. Y. Automatic circuit-breaking switch	610,887	Sept. 20	1343	307	84	1736
Bossong, Frank, Ellensburg, Wash. Twine-holder	604,961	May 31	3148	724	83	1295
Bossow, George, New York, N. Y. Hose-reel	611,767	Oct. 4	301	72	85	62
Bostedo, Louis C., Chicago, Ill. Terminal for pneumatic-despatch-tube systems	597,138	Jan. 11	1195	280	82	249
Bostian Automatic Burglar and Fire Alarm Co. (See Bostian, Charles P., assignor.)						
Bostian, Charles P., assignor to Bostian Automatic Burglar and Fire Alarm Co., Milton, Pa. Fire and burglar alarm system	598,410	Feb. 1	596	146 147	82	716
Bostley, Augustus H., South Williamsport, Pa. Car-brake	603,439	May 3	342	76	83	665
Bostock, Ralph. (See Cheatham and Bostock.)						
Boston Check and Ticket Company. (See Jones, Frank L. and E. C., assignors.)						
Boston Fast Color Eyelet Company. (See Kempshall, Eleazer, assignor.)						
Boston, James H., Washington, Kans. Veterinary obstetrical support	600,608	Mar. 15	1802	413	82	1602
Boston Woven Hose and Rubber Company. (See Cowen, Robert, assignor.)						
Boston Woven Hose and Rubber Company. (See Price, Raymond B., assignor.)						
Bostwick, Chauncey B., Pittsburg, Pa. Power mechanism for traction-engines	607,014	July 12	682	148 149	84	155
Bostwick, George W., V. Kraske, and R. Lorang, assignors to Barrows Music Company, Saginaw, Mich. Mandolin	597,352	Jan. 11	1540	359	82	316
Boswell, Henry G., Lihue, Hawaii. Vacuum-pan	604,598	May 24	2529	576	83	1156



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Bosworth, Charles B., Everett, and J. H. Millett, Malden, assignors to Crosby Steam Gage and Valve Company, Boston, Mass. Pressure-gage	596,674	Jan. 4	381	85, 86	82	76
Bosworth, Lorenzo P., Pawtucket, R. I. Machine for securing metal points to lacings	599,548	Feb. 22	2589	607	82	1151
Botelho, Antonio M., Cintra, Portugal. Portable furnace or stove	607,642	July 19	2054	427	84	435
Bothwell, George S., <i>et al.</i> (See Smith and Freir, assignors.)						
Bottini, Enrico, San Francisco, Cal. Air-compressing apparatus for vessels	604,962	May 31	3150	724	83	1295
Botulinski, Dmitro M., Boston, Mass. Bale or box hook	608,172	Aug. 2	8	2	84	656
Bouchet, John P. (See Manning and Bouchet.)						
Boudreau, Ernest A. (See Lombas, Joseph A., assignor.)						
Boudreaux, Louis, Paris, France. Manufacturing printing-blocks in copper, nickel, &c.	608,248	Aug. 2	140		84	682
Boughner, William W., Hamilton, Canada. Lawn-mower grinder	606,117	June 21	2003	459	83	1769
Boughton, Claudius V., Buffalo, N. Y. Signal-telegraph	597,536	Jan. 18	1861	431	82	396
Boughton, William G., Frostburg, Md. Sad-iron	606,642	July 5	11	432	84	5
Bougleux, Alberto. (See Bougleux, Eugenio and A.)						
Bougleux, Eugenio and A., Livorno, Italy. Sterilizing corn for making dough	607,981	July 26	2690		84	574
Bouhey, Philippe. (See Roux, Charles, assignor.)						
Boulanger, Emile, St. Louis, Mo. Drum	614,694	Nov. 22	2635	599	85	1170
Boulard, Joseph, Boston, Mass., assignor, by mesne assignments, to Globe Match Company, Portland, Me. Machine for making matches	614,925	Nov. 29	3051	699 700 701 702	85	1268
Bouldry, William W., Weymouth, Mass. Instrument for determining angles in framing buildings	614,259	Nov. 15	1839	425	85	1009
Bourbeau, Frederick A., assignor of one-half to F. Sittkus, Balsam Lake, Wis. Stump-puller	613,555	Nov. 1	607	140	85	731
Bourcart, Emmanuel, assignor to Compagnie Parisienne de Couleurs d'Aniline, Creil, France. Green dye and making same	615,472	Dec. 6	481		85	1505
Bourke, Henry W. L. M., London, England. Apparatus for manufacturing cycle-hubs	616,764	Dec. 27	2889	670	85	2028
Bourke, William J., Chicago, Ill. Game apparatus	613,658	Nov. 8	768	176	85	784
Bourne, Edwin H., Downieville, Cal. Rock-drill chuck	603,101	Apr. 26	2620	595	83	541
Bourne, Philip, Brooklyn, N. Y., assignor of one-half to C. L. Dubar and E. F. Vacheron, of New York. Extension-ladder	605,469	June 14	762	175	83	1520
Bournonville, Antoine, Philadelphia, Pa. Flexible electric conductor	600,058	Mar. 1	793	181	82	1369
Boutilier, Charles W., Britt, Iowa. Rotary engine	613,223	Oct. 25	2383	679 680	85	599
Boutilier, Peter, Britt, Iowa. Faucet	597,631	Jan. 18	2020	472	82	428
Bouton, Samuel, assignor of one-half to W. F. Ruwell and A. Henwood, Philadelphia, Pa. Explosive-engine	606,504	June 28	2723	627 628	83	1929
Bouvang, Nels, Rockford, Ill. Photographic opaque negative and printing therefrom	603,936	May 10	1260	287	83	861
Bovee, Manley W., Goodwill Hill, assignor to himself, E. R. Young, Titusville, L. D. Paterson, Tidioute, and F. A. Wood, Grand Valley, Pa. Device for separating gas and oil from water	597,258	Jan. 11	1384	323	82	284
Bovensiepen, Gustav, Mettmann, Germany. Process of and apparatus for hardening points of cards	610,022	Aug. 30	3425	793	84	1380
Boveroux, George L., Oakland, Cal. Ball-caster	601,726	Apr. 5	199	39	83	39
Boveroux, George L., Oakland, Cal. Ball-caster	613,352	Nov. 1	242	54	85	664
Bovey, Frank A. (See Johnson, Frederick C., assignor.)						
Bovio, Francisco, Buenos Ayres, Argentina. Combined rotary pump and water-motor	616,397	Dec. 20	2196	513	85	1874
Bowden, Ernest M., London, England. Mechanism for transmitting motion or power	609,570	Aug. 23	2606	609 610	84	1208
Bowden, Junius A., Detroit, Mich. Filter	601,392	Mar. 29	3161	714	82	1900
Bowdlear, William H., Boston, Mass. Floor-wax	613,750	Nov. 8	950		85	818
Bowell, George B. (See Hope-Jones and Bowell.)						
Bowen, Frank E. W., London, England. Filament for incandescent lamps	597,492	Jan. 18	1802		82	384
Bowen, George M., assignor to M. Bowen, Talbott, Tenn. Wagon-seat	609,607	Aug. 23	2677	625	84	1220
Bowen, Harry D. (See Smart, Herbert D., assignor.)						
Bowen, James A., assignor to Rand, McNally & Company, Chicago, Ill. Copy-book	601,393	Mar. 29	3163	715	82	1901
Bowen, John, Newark, N. J., assignor of one-half to A. Radel, Bridgeport, Conn. Face-protector for motormen	600,709	Mar. 15	1980	450	82	1635
Bowen, Mary. (See Bowen, George M., assignor.)						
Bowen, Robert S., Boston, Mass., assignor to Chickering & Sons, New York, N. Y. Piano.	598,693	Feb. 8	1078	260	82	824
Bowen, Samuel C., Medina, N. Y. Wire-fence tightener	606,505	June 28	2724	628	83	1929
Bowen, Samuel C., Medina, N. Y. Compensator for wire fences	606,506	June 28	2725	628	83	1930
Bowen, Shelby, Poppa, W. Va., assignor of one-half to S. Herald and J. T. Vinson. Lock	609,224	Aug. 16	1981	471	84	1069
Bowen, William E., Worcester, Mass. Tablet-check	616,653	Dec. 27	2685	622	85	1986
Bowen, William J., and C. A. Federer, assignors to L. Sands, Cleveland, Ohio. Automatic cut-out for magneto-generators	610,023	Aug. 30	3426	793 794	84	1381
Bower, Burroughs F., and W. H. Kennell, Cleveland, Ohio. Machine for printing in colors	613,488	Nov. 1	505	114	85	712
Bower, Elijah C., Milwaukee, Wis. Cell-case	606,913	July 5	495	109	84	98
Bower, Frederick T., <i>et al.</i> (See Thurlow and Hignett, assignors.)						
Bower, Harry A., Chelsea, assignor to W. P. Lee and W. H. Breen, Boston, Mass. Heating and illuminating attachment for gas-burners	609,656	Aug. 23	2790	650	84	1243
Bowers, Anna E., Wilkensburg, Pa. Curtain-pole	608,101	July 26	2908	622	84	619
Bowers, Hiester A., Reading, Pa. Frying-pan lid	612,513	Oct. 18	1614	385	85	334
Bowers, Hiram G., Canton, Ohio. Surgical table	602,571	Apr. 19	1689	384	83	350
Bowers, John S. (See Blake, Millard F., assignor.)						
Bowers, La Mont M., Cleveland, Ohio. Anchor	602,719	Apr. 19	1957	445	83	401
Bowers, Lillie B., Grinnell, Iowa. Stove	610,795	Sept. 13	1184	273	84	1688
Bowers, William F., San Francisco, Cal. Concentrating-belt	599,926	Mar. 1	473	107	82	1303
Bowes, Richard, Darlington, England. Fireplace	602,933	Apr. 26	2341	534	83	490
Bowick, Thomas G., London, England. Propelling and steering boats	612,539	Oct. 18	1659	394	85	343
Bowie, Charles H., Lisbon Falls, Me. Scaffold-hanger	610,888	Sept. 20	1345	308	84	1736
Bowles, Lewis, San Francisco, Cal. Pneumatic bicycle-brake	597,456	Jan. 18	1739	402	82	371
Bowles, Lewis, and J. W. Hansbrough, San Francisco, Cal. Ice-locomotive	610,889	Sept. 20	1346	308	84	1736
Bowles, Walter J., and J. Layton; said Bowles assignor to H. Pilger, Custer, S. D. Fire-kindler	597,943	Jan. 25	2564	598	82	547
Bowley, James D., Houston, Tex. Wheel for bicycles	598,850	Feb. 8	1319	319	82	870
Bowley, Joseph H., Washington, D. C., assignor of one-half to J. W. Stockwell, Marengo, Ill. Electric-circuit controller. (Reissue.)	11,689	Aug. 30	3635	845	84	1425
Bowling, Claud. (See Johnson, Carroll H., assignor.)						
Bowling, Enoch C. (See Bortree, Moses K. and M. H., assignors.)						
Bowling, James R., and G. W. Gilliland, Meredosia, Ill. Coin-operated vending apparatus	603,810	May 10	1027	229	83	817
Bowling, William, assignor of one-half to E. W. Neilson, Troy, S. D. Puzzle	599,593	Feb. 22	2672	625	82	1167



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Bowman, Abraham. (See Bradford, Edward D., assignor.)						
Bowman, Daniel W., and E. R. Kinney, assignors to said Bowman and E. W. Kohne, Toledo, Ohio. Hydrocarbon-burner	608,025	July 26	2796	594	84	597
Bowman, David, Berlin, Canada. Combined bicycle lock and holder	606,118	June 21	2004	459	83	1769
Bowman, George T., Philadelphia, Pa. Hand-grip for bicycle handle-bars	615,793	Dec. 13	1054	247	85	1631
Bowman, Harvey, Forgy, Ohio. Orchard-ladder	610,890	Sept. 20	1348	308	84	1736
Bowman, John H., Hazelton, assignor of one-third to C. L. Allen, Beaver Meadow, Pa. Bicycle air-brake	610,796	Sept. 13	1186	273	84	1688
Bowman, John W., <i>et al.</i> (See Barker, Henry C., assignor.)						
Bowman, Joseph K., Grubbs, Del. Vehicle-wheel	596,735	Jan. 4	498	114	82	97
Bowman, Lewis H., assignor of one-fourth to R. McGahey, Walla Walla, Wash. Sash-holder	599,161	Feb. 15	1862	441	82	989
Bowman, Lewis H., assignor of one-fourth to R. McGahey, Walla Walla, Wash. Sash-fastener	608,102	July 26	2910	623	84	619
Bowman, Louisa J., Amoret, Mo. Sewing-machine threader	606,269	June 28	2306	534	83	1847
Bowman, Newton K., Lawrence, assignor to A. Hurford, Canton, Ohio. Mine-gate	608,436	Aug. 2	481	108	84	751
				109		
Bowman, Newton K., Lawrence, assignor to A. Hurford, Canton, Ohio. Mine-gate	608,506	Aug. 2	595	133	84	774
				134		
Bowman, Newton K., Lawrence, assignor to A. Hurford, Canton, Ohio. Mine-gate	608,645	Aug. 9	861	198	84	844
Bowman, Newton K., Lawrence, assignor to A. Hurford, Canton, Ohio. Mine-gate	612,012	Oct. 11	752	185	85	157
				186		
Bowman, Newton K., Lawrence, assignor to A. Hurford, Canton, Ohio. Mine-gate	613,751	Nov. 8	951	218	85	818
Bowman, Oliver S., Salt Lake City, Utah. Printing-machine	597,944	Jan. 25	2564	599	82	547
				600		
Bowman, Thomas H. (See Linton, Harvey, assignor.)						
Bowman, William, Mill Grove, Mich. Fence-post	603,166	Apr. 26	2726	619	83	563
Bowman, Willis M., assignor of one-half to J. Leisemen, Indianapolis, Ind. Folding stool	615,135	Nov. 29	3461	794	85	1346
Bowne, Eureka C., Trenton, N. J. Non-refillable bottle	606,507	June 28	2726	629	83	1930
Bowne, John D., assignor to J. L. Robertson, New York, N. Y. Filter	602,720	Apr. 19	1958	445	83	401
Bowser, Allen A., Fort Wayne, Ind. Washboard	596,976	Jan. 11	912	215	82	194
Bowser, Sarah E., Muff, Pa. Violin-bow	613,897	Nov. 8	1198	274	85	865
Box, Alfred E., Egremont, England. Coin-freed apparatus	608,750	Aug. 9	1038	238	84	878
Boxley, George, assignor to Mosher & Curtis, Troy, and A. Poindexter, New York, N. Y. Buttonhole-band	610,579	Sept. 13	811	185	84	1011
Boyce, Albert J., Augusta, Okla. Ter. Horse-power	615,473	Dec. 6	482	112	85	1505
Boyce, Thomas H., New York, N. Y. Shutter-worker	597,705	Jan. 25	2156	504	82	469
Boyd, Frank A., New Rochelle, N. Y. Rotary engine	600,710	Mar. 15	1981	451	82	1635
Boyd, George R., assignor of three-fourths to C. S. Carey and E. Lemen, Cairo, Ill. Cutter-head	601,932	Apr. 5	585	122	83	111
Boyd, John, Lucknow, Canada. Adjustable and reversible splint	612,087	Oct. 11	885	214	85	183
Boyd, Peter, assignor to Riverside Iron Works, Wheeling, W. Va. Apparatus for manufacturing pipe	606,159	June 21	2075	477	83	1782
				478		
Boyd, Peter, assignor to Riverside Iron Works, Wheeling, W. Va. Apparatus for wiping pipe	609,263	Aug. 16	2061	489	84	1085
Boyd, Thomas A., Glasgow, Scotland. Spindle for spinning-machines	613,112	Oct. 25	2680	634	85	560
Boyd, Walter E., Cincinnati, Ohio, assignor of one-third to M. C. Mahone, Bellevue, Ky. Speed-indicator for bicycles	613,187	Oct. 25	2798	660	85	584
Boyd, William H., Salt Lake City, Utah. Spring-tread horseshoe	596,649	Jan. 4	337	73	82	67
Boyer, Albert L., Otto, Ind. Handle for hoes, rakes, &c	603,550	May 3	568	125	83	711
Boyer, Jesse B., <i>et al.</i> (See Patton, Oliver C., assignor.)						
Boyer, Martin, Biglerville, Pa. Punching-machine	602,721	Apr. 19	1960	445	83	402
Boyer, Richard M. (See Weaver, Ira A., assignor.)						
Boyer, William S., Butte, Mont. Door-hanger	610,598	Sept. 13	850	195	84	1620
Boyes, David W., and J. R. Denison, Grand Rapids, Mich.; said Denison assignor to said Boyes. Range-boiler	602,722	Apr. 19	1961	445	83	402
Boykin, Christopher C., assignor of one-fourth to J. W. Steel and H. S. Hazlette, Norfolk, Va. Letter-file	606,508	June 28	2728	629	83	1930
Boyle, Fayette J., Tacoma, Wash. Automatic fishing-reel	599,138	Feb. 15	1822	432	82	983
Boyle, John, Peabody, Mass. Knife-sharpening mechanism for leather-shaving machines	605,627	June 14	1050	241	83	1572
Boyle, John T. (See Cavanagh, Harry L., assignor.)						
Boyle, Richard J. (See Patterson, Walter F., assignor.)						
Boyle, William M. (See Posson, Wallace S., assignor.)						
Boyles, Hyson, assignor of two-thirds to W. A. Jackson and W. W. Smith, Janelew, W. Va. Locking-bar for doors	596,956	Jan. 4	873	205	82	170
Boynton Furnace Company. (See Marshall, Aquila B., assignor.)						
Boynton, Horace G., and C. H. Fravel, New Albany, Ohio. Stopper for jugs	602,822	Apr. 26	2148	487	83	452
Boynton, Thomas W., Duffan, Tex. Kitchen-cabinet	604,454	May 24	2263	508	83	1108
Boynton, Willie A., Dublin, Tex. Wire-tightener	613,792	Nov. 8	1018	232	85	831
Braasch, Henry, Los Angeles, Cal. Ballot-box	602,798	Apr. 19	2096	473	83	427
Braatz, August, Wausau, Wis. Plow-clevis	606,509	June 28	2729	629	83	1931
Brabrook, George H., assignor to Reed & Barton Corporation, Taunton, Mass. Flat metal tableware	606,183	June 28	2123	487	83	1809
Brack, Johan J., assignor to Basle Chemical Works, Basle, Switzerland. Rhodol derivative and making same	613,113	Oct. 25	2681	-----	85	560
Bracken, Howard W., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Thread or yarn guide	604,599	May 24	2530	576	83	1156
Brackett, Cephas W., assignor to himself and S. L. Rockwell, Jordan, N. Y. Faucet	602,300	Apr. 12	1239	272	83	249
Bracklow, George C., Elmshorn, Germany. Cooling means for explosive-engines	615,672	Dec. 13	840	194	85	1590
Bradberry, William T., Allegheny, Pa. Fire-pot for stoves, &c	596,843	Jan. 4	677	156	82	131
Bradbury, Thomas H., Johannesburg, South African Republic, assignor to Bradbury's World Patent Drill Sharpener Company, Limited, London, England. Rock-drill sharpener	603,887	May 10	1178	266	83	846
				267		
Bradbury's World Patent Drill Sharpener Company. (See Bradbury, Thomas H., assignor.)						
Braddock, Edward I., Medford, Mass. Apparatus for manufacturing composite non-corrodible pipe	610,223	Sept. 6	151	34, 35	84	1472
Braddock, Edward I., Medford, Mass. Composite pipe	610,224	Sept. 6	155	35	84	1473
Braddock, Effie F., Philadelphia, Pa. Eyeglasses	604,928	May 31	3104	713	83	1286
Bradeen, Ansel R., Seattle, Wash. Rope-clamping hook	602,694	Apr. 19	1918	436	83	393
Braden, John R., Ronan, Iowa. Tree-protector	605,776	June 14	1304	301	83	1621
Bradford, Charles S., Lexington, S. C. Lamp-shade	612,305	Oct. 11	1269	306	85	255
Bradford, Edward D., assignor of one-half to A. Bowman, McLouth, Kans. Gate	613,235	Nov. 1	17	4, 5	85	621
Bradford, Walter C., Arbuckle, Cal. Wheeled dumping scraper and grader	603,421	May 3	306	69	83	659



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Bradish, Alonzo G., <i>et al.</i> (See Bradish, Frederick T., assignor.)						
Bradish, Frederick T., Boston, assignor of two-thirds to A. G. Bradish, Medford, and C. F. Fellows, Malden, Mass. Fastening device for tubs, boxes, &c.	605,470	June 14	764	175	83	1520
Bradish, Nelson P., Kansas City, Mo. Folding bedstead	599,380	Feb. 22	2265	536	82	1088
Bradish, Theodore H., Utica, N. Y. Animal-trap	596,800	Jan. 4	608	140	82	117
Bradley, Allen, Floris, Va. Wagon-scale	603,937	May 10	1261	287	83	861
Bradley, Andrew J., St. Louis, Mo., assignor to Bradley Stencil Machine Company, of Missouri. Blank for making dies	610,024	Aug. 30	3427	794	84	1382
Bradley, Andrew J., St. Louis, Mo., assignor to Bradley Stencil Machine Company, of Missouri. Stencil-machine	612,892	Oct. 25	2337	556 557	85	490
Bradley, Andrew J., St. Louis, Mo., assignor to Bradley Stencil Machine Company, of Missouri. Stencil-cutting machine	612,922	Oct. 25	2381	567	85	500
Bradley, Andrew J., St. Louis, Mo., assignor to Bradley Stencil Machine Company, of Missouri. Making punches	613,236	Nov. 1	20	5	85	621
Bradley, Andrew J., St. Louis, Mo., assignor to Bradley Stencil Machine Company, of Missouri. Apparatus for making punches	614,789	Nov. 22	2795	641	85	1203
Bradley, Charles S., Avon, N. Y. Electric furnace	597,945	Jan. 25	2571	600 601	82	548
Bradley, Charles S., Avon, N. Y. Electric condenser	603,722	May 10	866	192	83	785
Bradley, Charles S., Avon, N. Y. Alternating-current motor	610,025	Aug. 30	3428	794	84	1382
Bradley, Charles S., Avon, N. Y. Method of and apparatus for electrically transmitting power	615,673	Dec. 13	841	194	85	1590
Bradley, Charles S., Avon, N. Y. Alternating-current generator	615,952	Dec. 13	1337	313	85	1685
Bradley, Charles S., Avon, N. Y. Controlling alternating-current motors	615,953	Dec. 13	1338	313	85	1685
Bradley, Charles S., Avon, N. Y., assignor to General Electric Company, of New York. Alternating-current induction-motor	608,249	Aug. 2	141	35	84	682
Bradley, Charles S., Avon, N. Y., assignor to General Electric Company, of New York. Alternating-current motor and operating same	614,076	Nov. 15	1483	340	85	944
Bradley, Charles S., Avon, N. Y., assignor to General Electric Company, of New York. Changing period and phase of alternating currents	615,954	Dec. 13	1340	313	85	1686
Bradley, Christopher C., Syracuse, N. Y. Thill-coupling	609,928	Aug. 30	3236	757	84	1344
Bradley, Christopher C., assignor to C. C. Bradley, Jr., Syracuse, N. Y. Thill-coupling	612,942	Oct. 25	2410	575	85	505
Bradley, Edwin M., New Haven, assignor of one-half to F. B. Street, East Haven, Conn. Double or compound fork	606,372	June 28	2495	580	83	1883
Bradley, Francis W., Sharpsburg, Pa. Permutation-padlock	601,034	Mar. 22	2519	573	82	1750
Bradley, Francis W., Sharpsburg, Pa. Boiler-tube cleaner	608,418	Aug. 2	454	101	84	746
Bradley, Frank S., New Haven, Conn. Stapling-machine	602,121	Apr. 12	918	200 201	83	186
Bradley, Frank S., and F. A. Cotton, New Haven, Conn. Hack-saw machine	604,714	May 31	2751	629	83	1218
Bradley, Hazen W., Ilion, N. Y., assignor to Remington Arms Company, of New York. Chain and sprocket-wheel	616,072	Dec. 20	1558	364	85	1746
Bradley, Hiram T., Oakland, Cal. Carbureter	611,674	Oct. 4	145	36	85	31
Bradley & Hubbard Mfg. Co. (See Jauch, Joseph, assignor.)						
Bradley & Hubbard Mfg. Co. (See Penfield, William A., assignor.)						
Bradley, John, Chelmsford, Mass. Knitting-machine	601,548	Mar. 29	3420	776	82	1954
Bradley, John J. (See Maguire, Thomas R., assignor.)						
Bradley, Joseph M., <i>et al.</i> (See Ogden, Otto G., assignor.)						
Bradley, Josiah, T. W. Otto, and J. L. Wolfe, assignors to Prospecting Tool Co., Stamford, Conn. Prospecting tool and drill	615,794	Dec. 13	1055	248 415 416	85	1631
Bradley, Peter B., Hingham, Mass. Device for handling and storing coal	616,181	Dec. 20	1799	416	85	1794
Bradley, Rodney D., assignor of one-half to F. X. Mudd, Chicago, Ill. Bicycle-keeper	605,628	June 14	1051	242	83	1572
Bradley Stencil Machine Company. (See Bradley, Andrew J., assignor.)						
Bradley, William H., Bellevue, Pa. Water-heater and smoke-consumer	598,973	Feb. 15	1549	368	82	930
Bradley, William J., Troy, N. Y., assignor to Continuous Rail-Joint Company of America, Newark, N. J. Metal-rolling machinery	611,603	Oct. 4	15	4	85	5
Bradney, Edward D. (See Haines, Lewis B., assignor.)						
Bradshaw, Charles T., Philadelphia, Pa. Figure-sign	600,486	Mar. 8	1567	360	82	1536
Bradshaw Improved Window Company. (See Bradshaw, Silas S., assignor.)						
Bradshaw, Silas S., Brooklyn, assignor to Bradshaw Improved Window Company, New York, N. Y. Sash-holder	598,239	Feb. 1	291	66	82	657
Bradt, Charles E., <i>et al.</i> (See Pringle, Eugene, assignor.)						
Bradt, Chauncey D., assignor to G. Bradt, Green Island, N. Y. Apparatus for attaching color specimens to sample-sheets	596,977	Jan. 11	914	215 216	82	195
Bradt, Georgianna. (See Bradt, Chauncey D., assignor.)						
Bradt, Horace, and J. Kindleberger, assignors of one-half to J. W. Sefton, San Diego, Cal. Cash-register	601,423	Mar. 29	3211	724 725	82	1910
Bradt, Samuel E., <i>et al.</i> (See Pringle, Eugene, assignor.)						
Brady, Charles N. (See Henry and Brady.)						
Brady, Charles N., Washington, Pa. Apparatus for making articles of glassware	608,828	Aug. 9	1210	282	84	908
Brady, James M., Philadelphia, Pa. Machine for trimming wall-paper	602,253	Apr. 12	1153	253	83	232
Brady, James T., Bridgeport, Conn. Device for attaching force-pumps and hose to strainers	597,259	Jan. 11	1386	324	82	285
Brady, John, New York, N. Y. Can-opener and ice-pick	609,406	Aug. 23	2312	546	84	1153
Brady, John, New York, N. Y. Elevated railway	609,407	Aug. 23	2312	546	84	1153
Brady, Joseph H., Kansas City, Mo. Clean-out trap for range-closets	598,899	Feb. 15	1406	338	82	903
Brady, William B., Austin, Tex. Nailing-machine	597,097	Jan. 11	1132	267 268	82	237
Brady, William J., San Francisco, Cal. Mud-drum and boiler connection	600,059	Mar. 1	794	181	82	1370
Braender, Philip. (See Power, Nicholas, assignor.)						
Bragg, Albert C., assignor of two-thirds to New Home Sewing Machine Company and A. E. Emery, Orange, Mass. Combined ticket-holder and advertising medium	600,848	Mar. 15	2204	504	82	1678
Bragg, Hattie V., <i>et al.</i> (See Secoy, Samuel E., assignor.)						
Bragg, John, Cleveland, Ohio. Deodorizing and purifying petroleum-oil	604,515	May 24	2382		83	1128
Bragger, John W., assignor to Hitchcock Lamp Company, Watertown, N. Y. Bicycle-lamp	597,385	Jan. 18	1603	372 373	82	346
Bragger, John W., assignor to Hitchcock Lamp Company, Watertown, N. Y. Flushing-valve	597,946	Jan. 25	2574	601	82	549
Bragger, John W., assignor to Hitchcock Lamp Company, Watertown, N. Y. Holder for bicycle-lamps	597,947	Jan. 25	2575	601	82	549
Bragger, John W., assignor to Hitchcock Lamp Company, Watertown, N. Y. Lantern-bracket	602,122	Apr. 12	921	201	83	186
Bragger, John W., assignor to Hitchcock Lamp Company, Watertown, N. Y. Incandescent gas-burner	605,562	June 14	912	213	83	1549
Bragger, John W., assignor to Hitchcock Lamp Company, Watertown, N. Y. Clamp for ball-and-socket joints	606,914	July 5	496	109	84	99



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brahm, Adam. (See Mechwart and Brahm.)						
Braid, Fountain S., Brooklyn, N. Y. Elevator-controller	605,471	June 14	765	175	83	1520
Braime, James H. (See Braime, Thomas F. and J. H.)						
Braime, Thomas F. and J. H., Leeds, England. Apparatus for cooking or baking pies, &c.	613,752	Nov. 8	952	218	85	818
Brainard, Julius D., St. Paul, Minn. Currycomb	610,891	Sept. 20	1349	309	84	1737
Brainard, La Gee, Valkaria, Fla. Cooking or heating utensil	611,955	Oct. 4	625	152	85	122
Brainard, Walter A. (See Smith and Brainard.)						
Brainerd, Fred E., Carbondale, Ill. Rotary engine	607,678	July 19	2114	442 443	84	445
Braithwaite, Robert W., <i>et al.</i> (See Colleran, Thomas, assignor.)						
Brake, Alfred, and R. J. McKee, Wellington, New Zealand; said McKee assignor to said Brake. Aerated-water fountain or engine	606,373	June 28	2498	580	83	1884
Brake, Eulalia V., Toledo, Ohio. Machine for cutting noodles	616,449	Dec. 27	2287	533	85	1913
Braley, Alexander, Langsville, Ohio. Mail-sack fastening	600,399	Mar. 8	1414	324	82	1509
Braley, Thurman, Proctorville, Ohio. Postal advertising-card	614,695	Nov. 22	2637	600	85	1171
Braley, William E., Fall River, Mass. Guard for shutter-fasteners	608,318	Aug. 2	266	60	84	708
Braly, Louis. (See Syssoyeff and Braly.)						
Braly, Louis. (See Tachauer and Braly.)						
Bramlette, Andrew J., Downey, Cal. Pipe splitter and perforator	602,301	Apr. 12	1240	272	83	249
Brammer, Henry F., Davenport, Iowa. Mechanical movement	606,044	June 21	1865	430	83	1741
Bramwell, Joseph W., Philadelphia, Pa. Bicycle	609,005	Aug. 16	1559	371	84	990
Branagan, James, Mayview, Kans. Weed-cutter	610,164	Sept. 6	7	2, 3	84	1444
Branch, Stephen R. (See Ferguson, William P., assignor.)						
Branch, W. W. (See Wilson, Samuel T., assignor.)						
Brand, George, Brooklyn, N. Y. Reversible rail-grip for bedsteads	605,286	June 7	435	98	83	1435
Brand, Theodore, assignor of one-half to M. Fehrmann, Brooklyn, N. Y. Lock	596,473	Jan. 4	12	4	82	5
Brande, Frank L. (See Harvey, James E., assignor.)						
Brandell, Claus, Chicago, Ill. Saw-set	616,398	Dec. 20	2198	513	85	1874
Brandell, John, Walpole, N. H. Plane	600,767	Mar. 15	2074	475	82	1654
Brandell, Peter, Council Bluffs, Iowa. Mail-distributing indicator	610,621	Sept. 13	880	202	84	1626
Brandenburg, Albert F., Dayton, Ohio. Rain-apron fastener	601,334	Mar. 29	3066	691	82	1883
Brandenburg, Albert F., Dayton, Ohio. Storm-apron for vehicles	616,566	Dec. 27	2518	583	85	1956
Brandes, Herman H., Corydon, Ky. Fence	605,849	June 21	1484	340	83	1672
Brandon, Frances L., and A. Roop, Hicksville, Ohio. Rim-joint for vehicle-wheels	602,123	Apr. 12	922	201	83	186
Brandon, James H. (See Bebout and Brandon.)						
Brands, Gerhard J. (See Wiens and Brands.)						
Brandstaedter, Friedrich, Louvain, Belgium. Screening or bolting machine	615,524	Dec. 6	576	132	85	1524
Brandt, Edward J., Watertown, Wis. Coin-delivery apparatus	604,600	May 24	2531	576 577 578	83	1157
Brandt, Fredrick A. (See Harris and Brandt.)						
Brandt, John, Chicago, Ill. Banjo	601,804	Apr. 5	341	69	83	64
Brandt, John, Chicago, Ill. Head-piece for stringed instruments	609,531	Aug. 23	2540	595	84	1195
Brandt, Louis. (See Heinze, Ali, assignor.)						
Brandt, Reinhold, and A. Oertel, Cleveland, Ohio. Safety-brake for elevators	612,540	Oct. 18	1661	394 395	85	343
Branham, Alvin J., Springfield, Mo. Egg-case	612,395	Oct. 18	1418	342	85	297
Branham, Horace C. (See Westerfield, Granville G., assignor.)						
Branitzky, William T., Chicago, Ill. Bicycle-gearing	613,753	Nov. 8	953	218	85	818
Brann, Oscar B., Washington, D. C. Wetter and wiper for dental grindstones	597,235	Jan. 11	1346	315	82	277
Brann, Oscar B., Washington, D. C. Puzzle	616,765	Dec. 27	2891	670	85	2028
Brannan, Edward I., Richmond, Va. Circle-cycle	605,629	June 14	1052	242	83	1572
Bransford, Gideon J., Cayce, Ky. Colter for plows	616,450	Dec. 27	2288	534	85	1913
Branson, A. L. (See Barry, Jefferson D., assignor.)						
Branson, James L. (See Groupe, Andrew V., assignor.)						
Branzell, Charley. (See Larson and Branzell.)						
Brashears, Ira, Washington, D. C. Fire-extinguisher	596,844	Jan. 4	678	157	82	131
Brasington, John M., Morven, N. C., assignor of one-half to C. S. McCall, Bennettsville, S. C. Pea-thresher	596,978	Jan. 11	916	216	82	195
Bratt, Charles E., Stockholm, Sweden, assignor to Bratt's Stave and Cask Syndicate, Limited, London, England. Stave-jointing machine	611,587	Sept. 27	2668	614 615	84	2004
Bratten, Herschel A. (See Killman and Bratten.)						
Bratton, Henry C., Lafayette, Tenn. Singletree	608,949	Aug. 9	1436	338	84	951
Bratt's Stave and Cask Syndicate. (See Bratt, Charles E., assignor.)						
Brauch, Robert H., Paterson, N. J. Suspenders	615,474	Dec. 6	483	112	85	1505
Brauchler, Charles A., Canton, Ohio. Tire-patcher	602,052	Apr. 12	802	173	83	163
Brault, Camille, Paris, France. Secondary battery	605,695	June 14	1169	269	83	1595
Braun, Frederick. (See Eisner, Theodor D., assignor.)						
Braunbeck, Peter. (See Oberfeld and Braunbeck.)						
Braunlich, Eugene A. E., New York, N. Y. Sash-balance	599,313	Feb. 22	2133	506	82	1063
Brautigam, Joseph A., New York, N. Y. Sewing-machine	611,768	Oct. 4	302	72, 73	85	62
Bray, Edward W., Indianapolis, assignor of two-thirds to F. A. Williams and L. B. Hughes, Needham, Ind. Bicycle-saddle	604,347	May 17	2072	464	83	1051
Bray, Mellen N. (See Lizotte, Joseph, assignor.)						
Brayman, John W., Silver Springs, N. Y. Ice-creeper	610,842	Sept. 13	1258	290	84	1703
Brayton, James T., assignor to Geneva Optical Company, Chicago, Ill. Lens-measure	611,350	Sept. 27	2208	510	84	1919
Brazell, Wiley W., Copenhagen, Tenn. Churn-dasher	600,400	Mar. 8	1415	324	82	1509
Brazelton, John F., assignor of one-half to G. C. English, Butte, Mont. Scale-weight	604,715	May 31	2755	629	83	1218
Brazenor, Edward L., <i>et al.</i> (See Leask, John and T. W., assignors.)						
Breakell, Edward. (See Buist and Breakell.)						
Breath, William L., Brooklyn, N. Y., assignor to Dynamite Ordnance and Armaments Company, of New Jersey. Pneumatic gun	599,549	Feb. 22	2590	607 608	82	1151
Breckenridge, Firman S., Caledonia, Mo. Check-row attachment for planters	600,711	Mar. 15	1983	451 452	82	1636
Breckenridge, Hugh, Lynden, Wash. Polishing-machine for broom-handles	607,730	July 19	2192	463	84	461
Breckenridge, William A. (See Taylor, George W., assignor.)						
Brecknell, William, assignor to G. Chattaway, West Hartlepool, England. Means for raising or lowering door or like curtains or screens	615,605	Dec. 6	715	165	85	1553
Bredow, John F., Davenport, Iowa. Aquatic swing or rocker	598,900	Feb. 15	1408	338 339	82	903
Breed, Chancy, Farwell, Mich. Door-closer	604,716	May 31	2755	630	83	1219
Breeden, Horace S., Minneapolis, Minn. Duplex pen	611,050	Sept. 20	1629	372	84	1790
Breedlove, William H., Louisville, Ky. Window	613,114	Oct. 25	2682	634	85	560
Breen, William H., <i>et al.</i> (See Bower, Harry A., assignor.)						
Breiding, Henry, Sterling, Ill. Antirattler for thill-couplings	612,306	Oct. 11	1269	307	85	255
Breininger, Frederick H. W., King's Norton, England. Velocipede holder or stand	613,963	Nov. 8	1298	295	85	885



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Breinl, Anton R., Graslitz, Austria-Hungary. Apparatus for teaching arithmetic .....	604,963	May 31	3151	725	83	1295
Breitenstein, Henry, Laramie, Wyo. Bottle .....	600,632	Mar. 15	1840	421	82	1609
Breitenstein, Henry, Laramie, Wyo. Pneumatic hammer .....	614,160	Nov. 15	1637	376	85	972
Breithut, Oscar P., assignor of one-half to M. J. Reinhold, Williamsport, Pa. Bicycle-support .....	608,543	Aug. 2	657	150	84	785
Bremmerman, Frank B., Indianapolis, Ind. Neck for musical instruments .....	600,507	Mar. 15	1636	373	82	1570
Brendel, Michael, New York, N. Y. Resilient tire .....	603,036	Apr. 26	2500	567	83	519
Brendner, Joseph, Pacific, Mo. Garden-tool .....	598,173	Feb. 1	177	41	82	636
Breneman, Joseph T., Walnut Creek, Cal. Wave and stream motor .....	596,801	Jan. 4	610	141	82	117
Brengman, John, Florissant, assignor to H. C. Hamilton, R. Gapsch, J. Everman, and H. Trowbridge, Cripple Creek, Colo. Nut-lock .....	602,891	Apr. 26	2247	511	83	471
Brennan & Co. Southwestern Agricultural Works. (See Brennan and Christman, assignors.)						
Brennan & Co. Southwestern Agricultural Works. (See Christman, Edward, assignor.)						
Brennan & Co. Southwestern Agricultural Works. (See Christman, Brennan, and Homire, assignors.)						
Brennan, Dennis, J. R. Wirley, and E. Goldthwait, Elkhart, Ind. Device for bending angle-bars .....	608,829	Aug. 9	1211	283	84	909
Brennan, Edward, <i>et al.</i> (See Little, Alexander F., assignor.)						
Brennan, Francis A., Brockville, Canada. Motor .....	605,382	June 7	624	139	83	1471
Brennan, Frank W., assignor of one-half to J. C. Wickers, New York, N. Y. Game apparatus .....	610,734	Sept. 13	1061	243	84	1663
Brennan, Mark P., New York, N. Y. Mucilage-bottle .....	604,245	May 17	1869	419	83	1012
Brennan, Patrick, Syracuse, N. Y. Crank-hanger .....	616,073	Dec. 20	1559	364	85	1746
Brennan, Paul C., New York, N. Y. Asphalt-scale .....	615,423	Dec. 6	391	93	85	1489
Brennan, Thomas, Jr. (See Christman, Brennan, and Homire.)						
Brennan, Thomas, and E. Christman, assignors to Brennan & Co. Southwestern Agricultural Works, Louisville, Ky. Shoe for grain-drills .....	613,115	Oct. 25	2684	635	85	560
Brenner, George K., Porterville, Kans. Disk cultivator .....	603,167	Apr. 26	2726	620	83	563
Brenner, John F. (See Phelps and Brenner.)						
Brenner, Karl F. G. (See Schneider and Brenner.)						
Brent, Richard N., Wellington, Kans. Washing-machine .....	599,594	Feb. 22	2673	625	82	1167
Brenzinger, Julius, assignor to M. Ams, New York, N. Y. Machine for lining covers of metal cans .....	597,386	Jan. 18	1606	373 374	82	346
Bresman, John, San Francisco, Cal. Spring-heel for boots or shoes .....	601,549	Mar. 29	3421	776	82	1954
Bresnahan, Maurice V. (See Heys, John J., assignor.)						
Bresson, Louis, Lyons, France. Electric furnace .....	612,943	Oct. 25	2411	575	85	506
Brett, Henry E. (See Woodward and Brett.)						
Brett, Henry W., Boston, Mass. Gate for cars .....	604,225	May 17	1831	410	83	1005
Brett, Thomas, Geneva, Ohio. String instrument .....	601,788	Apr. 5	318	63	83	60
Breul, Richard A., Bridgeport, Conn. Hat and coat hook .....	600,255	Mar. 8	1185	268	82	1464
Brewer, Edward G. (See Burford, Henry G., assignor.)						
Brewer, Henry. (See Johnson and Brewer.)						
Brewer, J. H. (See Buchanan, Robert H., assignor.)						
Brewer, Jacob H., New Straitsville, Ohio. Centering-machine .....	603,888	May 10	1180	267	83	846
Brewington, Henry S., Baltimore, Md. Garment-supporter .....	601,745	Apr. 5	241	48	83	46
Brewington, Henry S., Baltimore, Md. Safety-pin .....	606,374	June 28	2500	581	83	1884
Brewster, J. K., Jr., <i>et al.</i> (See Parks, James H., assignor.)						
Breyer, Henry, <i>et al.</i> (See Phillips, Elwood C., assignor.)						
Breyer, Henry, Jr., Chicago, Ill. Waste-plug .....	601,394	Mar. 29	3164	715	82	1901
Brice, Alfred L., Minneapolis, Minn. Clip for bicycle-pedals .....	605,536	June 14	862	202	83	1539
Brice, Thomas S. (See Calkins, James S., assignor.)						
Brice, Stewart M., <i>et al.</i> (See Schaill, Michael S., assignor.)						
Bricker, Skiles W., Ore, Mo. Baling-press .....	600,353	Mar. 8	1341	307	82	1495
Bridge, Thomas R., assignor of one-half to J. Pfeiffer, Akron, Ohio. Vehicle-wheel .....	612,376	Oct. 11	1388	336	85	278
Bridgeport Brass Company. (See Rhind, Frank, assignor.)						
Bridges, James T., Hancock, Md., assignor of one-half to E. W. Venable, Hampden Sidney, Va. Nut-lock .....	612,478	Oct. 18	1566	375	85	325
Briegel, Johan G., assignor of one-fourth to J. Keller, Philadelphia, Pa. Water-tube boiler .....	601,335	Mar. 29	3067	691	82	1883
Brien, James T. and T. R., assignors of one-half to H. W. Stone, Hoosick Falls, N. Y. Hot-air furnace .....	607,793	July 19	2306	486 487	84	482
Brien, Theodore R. (See Brien, James T. and T. R.)						
Brierly, Frank F., <i>et al.</i> (See Henning, George, assignor.)						
Brigalant, Gaston, Barentin, France. Machine for preparing and reducing leather offal .....	611,956	Oct. 4	626	152	85	122
Brigden, Charles H., Canton, Mass., assignor of two-thirds to S. M. Hawes, Jr., Yonkers, N. Y. Night-latch .....	598,472	Feb. 1	688	168	82	733
Brigden, Charles H., Canton, Mass., assignor to S. M. Hawes, Jr., Yonkers, N. Y. Latch mechanism .....	604,516	May 24	2385	542	83	1129
Brigden, Charles H., Canton, Mass., assignor to S. M. Hawes, Jr., Yonkers, N. Y. Lock .....	604,576	May 24	2498	568	83	1150
Brigden, Charles H., Canton, Mass., assignor to S. M. Hawes, Jr., Yonkers, N. Y. Pad-lock .....	604,577	May 24	2499	568	83	1150
Brigg, Thomas H., Bradford, England. Means for connecting draft-animals to vehicles .....	596,569	Jan. 4	190	43	82	38
Brigg, Thomas H., Bradford, England. Bicycle .....	609,006	Aug. 16	1559	371	84	990
Briggs, Charles E., Avery, Md. Combination ironing-board and clothes-rack .....	598,901	Feb. 15	1409	339	82	904
Briggs, Clarence F. (See Ingerson, Harry F., assignor.)						
Briggs, Edward R., Amesbury, Mass. Traveler's toilet-case .....	602,494	Apr. 19	1560	355	83	326
Briggs, Henry S., Rochester, N. Y. Washboard-fastener .....	603,252	May 3	16	4	83	603
Briggs, Jennie L., Taunton, Mass. Bouquet-holder .....	613,059	Oct. 25	2603	616	85	545
Briggs, Jerome C., Columbus, Ohio. Toy .....	611,887	Oct. 4	512	124	85	102
Briggs, John N., Coeymans, N. Y. Gage for teeth of ice plows and markers .....	598,240	Feb. 1	292	66, 67	82	657
Briggs, John S., Poland, Me. Compound condensing-engine .....	598,357	Feb. 1	491	118	82	694
Briggs, Thomas A., Arlington, Mass., assignor to Standard Machinery Company, Mystic River, Conn. Paper-feeding machine .....	609,954	Aug. 30	3291	767 768	84	1356
Briggs, Thomas A., Arlington, Mass., and F. L. Cross, assignors to Standard Machinery Company, Mystic, Conn. Paper-feeding machine .....	613,793	Nov. 8	1020	232 233 234	85	831
Brigham, Ernest A., Cincinnati, Ohio, assignor to Wyckoff, Seamans & Benedict, of New York. Type-writing machine .....	607,405	July 12	1442	307	84	294
Brigham, Lyscom, Decatur, Mich. Soft-ground horseshoe .....	600,960	Mar. 22	2391	545	82	1727
Brigham, Martin E., Philadelphia, Pa. Evaporating apparatus .....	614,926	Nov. 29	3057	703	85	1269
Brigham, Orman H., Chatsworth, Ill. Air-compressor .....	604,717	May 31	2756	630	83	1219
Bright, Charles M., and W. O. Ballard, Fancy Farm, Ky.; said Bright assignor to said Ballard. Transom fastener and pivot .....	608,544	Aug. 2	659	150	84	785
Bright, Thomas C., Kansas City, Mo. Car-ventilator .....	596,650	Jan. 4	338	73, 74	82	67
Bright, Thomas C., Kansas City, Mo. Rotary engine .....	612,815	Oct. 25	2187	520	85	463
Brightman, Latham H., Cleveland, Ohio. Shaft-straightening machine .....	613,754	Nov. 8	955	219	85	819



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Brightmore, Arthur W., Knighton, England. Steering mechanism for motor-vehicles	609,955	Aug. 30	3299	768	84	1357
Brightwell, Joseph W., Milton, W. Va. Cattle-guard	609,657	Aug. 23	2791	769	84	1243
Brill, George M., and S. M. Curwen, assignors to J. A. Brill, Philadelphia, Pa. Pivotal truck	610,118	Aug. 30	3564	826	84	1410
Brill, George M., and S. M. Curwen, assignors to J. A. Brill, Philadelphia, Pa. Pivotal truck	610,119	Aug. 30	3573	827	84	1413
Brill, John A. (See Brill and Curwen, assignors.)						
Brill, John A., Philadelphia, Pa. Car-truck	598,074	Feb. 1	8	3	82	604
Brill, John A., and W. S. Adams, Philadelphia, Pa.; said Adams assignor to said Brill. Differential brake mechanism	603,723	May 10	866	193	83	786
Brillhart, Elmer L., Pentwater, Mich. Vehicle-spring	597,161	Jan. 11	1231	290	82	256
Brilliant, Mark, assignor of one-half to F. A. Plaisted, San Francisco, Cal. Folding sofa-bed	612,816	Oct. 25	2189	520	85	463
Brillié, Lucien V. (See Vigreux and Brillié.)						
Brims, James. (See Shotwell and Brims.)						
Brinckerhoff, Francis M., et al. (See Rowell and Brinckerhoff.)						
Briner, Frederick E., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Electric motor	605,850	June 21	1486	340	83	1672
Briney, Charles E., Allegheny, Pa. Smoke-consuming device	609,225	Aug. 16	1982	471	84	1069
Brinker, Henry, Pittsburg, Pa. Heel-shaver for shoemakers' use	610,512	Sept. 6	698	157	84	1573
Brinkerhoff, Nelson M., Gibsonburg, Ohio. Sample-holder for boxes, drawers, &c.	615,795	Dec. 13	1056	248	85	1632
Brinkhaus, Anna, et al. (See Brinkhaus, Hugo, assignor.)						
Brinkhaus, Eugenia, et al. (See Brinkhaus, Hugo, assignor.)						
Brinkhaus, Hugo, Denver, Colo., assignor to A. and E. Brinkhaus, New York, N. Y. Energy-storing apparatus for vessels	596,957	Jan. 4	876	205	82	170
Brinkman, Benjamin F. (See Rutgers and Brinkman.)						
Brinkman, Louis H., New York, N. Y. Tube-bending apparatus	614,242	Nov. 15	1806	417	85	1003
Brinkman, Louis H., assignor to New York Pipe Bending and Machine Company, Brooklyn, N. Y. Ball-cock	598,133	Feb. 1	102	24	82	622
Brinkman, Sebastian G., New York, N. Y. Tile-cutting machine	600,856	Mar. 22	2228	507	82	1696
Brinser, George H., Lancaster, Pa. Thill-coupling	596,474	Jan. 4	14	4	82	5
Brinton, William F., Washington, Iowa. Bicycle	607,500	July 19	1793	373	84	387
Briquette Coal Company. (See Corning, Gardner, assignor.)						
Brisben, William W., Cleveland, Ohio. Machine for making steel balls	607,015	July 12	683	149	84	155
Brisbin, Eugene, Bowling Green, Ohio. Portable wire fence	600,401	Mar. 8	1416	324	82	1509
Bristol Bell Company. (See Gale, Herbert N., assignor.)						
Bristol Bell Company. (See Rockwell, Edward D., assignor.)						
Bristol Bell Company. (See Tredwell, Charles A., assignor.)						
Bristol Brass and Clock Company. (See Holley and Fowler, assignors.)						
Bristol, Henry, New Haven, Conn. Folding drying-frame for woolen garments	605,383	June 7	625	140	83	1472
Bristol, William H., Hoboken, N. J. Belt-fastener	596,690	Jan. 4	412	93	82	82
Bristow, George O., Nowata, Ind. Ter. Match-safe	612,699	Oct. 18	1960	465	85	400
Brite, John B., assignor of one-half to J. W. Jameson, Tehachapi, Cal. Jointed-frame gang-plow	612,377	Oct. 11	1390	336	85	278
British Blahnik Arc Light Company. (See Worsley, Frederic S., assignor.)						
Britt, William L., and A. B. Enns, Dallas, Oreg. Fire-escape	611,888	Oct. 4	513	124	85	102
Brittan, Henry M., San Francisco, Cal., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Rope grip and propelling device	612,923	Oct. 25	2384	567	85	500
Brittania Motor Carriage Company. (See Sherrin, John V., assignor.)						
Britten, Percy J. (See Jackson and Britten.)						
Brittin, Frederick G. M., and B. W. Glass, Christchurch, New Zealand. Apparatus for freezing meats	612,817	Oct. 25	2191	521	85	464
Britton, Horace E., Stoughton, Mass. Folding music-rack	601,424	Mar. 29	3215	725	82	1911
Britton, James A., West Bethlehem, Pa. Fire-hose washer	615,012	Nov. 29	3227	742	85	1303
Britton, Thomas G., Louisville, Nebr. Boiler	596,979	Jan. 11	918	217	82	195
Broad, Harry L., assignor of one-half to R. G. Levyn, Alpena, Mich. Safety-pocket	610,513	Sept. 6	699	157	84	1573
Broadbooks, Peter, Batavia, N. Y. Combined wire-shears and parallel-jaw pliers	611,102	Sept. 20	1729	396	84	1810
Broadbooks, Peter, Batavia, N. Y. Combination-tool	615,955	Dec. 13	1342	313	85	1686
Broadbooks, Peter, Batavia, N. Y. Bolt-clipper	615,956	Dec. 13	1343	314	85	1686
Broadway, John B. B., et al. (See Lewis, George, assignor.)						
Brobst, Ulysses S. G., assignor of one-third to C. Bentz, Columbus, Ohio. Safety envelop	607,336	July 12	1315	281	84	271
Brock, Andrew L., Lockhart, Tex. Disk cultivator	608,830	Aug. 9	1213	283	84	909
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,933	Apr. 5	586	122	83	111
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,934	Apr. 5	594	124	83	112
Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,935	Apr. 5	598	125	83	112
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,936	Apr. 5	604	126	83	114
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,937	Apr. 5	610	127	83	115
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,938	Apr. 5	614	128	83	115
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,939	Apr. 5	619	129	83	116
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,940	Apr. 5	625	130	83	117
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,941	Apr. 5	629	131	83	118
Brock, Matthias, Boston, Mass., assignor to Consolidated & McKay Lasting Machine Company, Portland, Me. Lasting-machine	601,942	Apr. 5	633	132	83	118
Brock, Samuel, Williamson county, Tex. Planter attachment for cultivators	614,437	Nov. 22	2168	499	85	1086
Brock, Willis J., Tamaha, Ind. Ter. Portable fence	603,938	May 10	1262	287	83	862
Brockett, Atwater E., Everett, Mass. Folding seat	615,660	Dec. 6	820	190	85	1574
Brockett, Atwater E., Everett, assignor to W. G. Nixon, Braintree, Mass. Pipe-wrench	605,441	June 7	723	163	83	1492
Brockett, Atwater E., Everett, assignor to C. M. Martin, Boston, Mass. Key-fastener	615,380	Dec. 6	305	72	85	1472
Brockett, Atwater E., Everett, assignor to C. M. Martin, Boston, Mass. Puzzle-bank	615,381	Dec. 6	306	72	85	1472
Brockman, Tandy E., Franklin, assignor of one-half to J. S. Atwood, Edinburg, Ind. Hame-strap	615,342	Dec. 6	209	52	85	1454



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Brockton Folding Machine Company. (See Rogers, Charles C., assignor.)						
Brod, Crescent P., <i>et al.</i> (See Thoma, Julius L., assignor.)						
Brode, Arthur W., assignor of one-fifth to M. W. Newcomb, Downer's Grove, Ill. Permutation-padlock	598,974	Feb. 15	1551	368	82	930
Broder, Michael J. (See Mackay and Broder.)						
Brodie, Hiram S., Baltimore, Md. Cyclist's riding-record	602,053	Apr. 12	803	174	83	163
Brodie, John R., New York, N. Y. Permutation-padlock	615,525	Dec. 6	579	132	85	1524
Brogan, Anthony D., A. M. Malloch, Glasgow, and J. Craig, Motherwell, Scotland. Leer or kiln for annealing glass	614,199	Nov. 15	1700	390 391	85	984
Brogan, James A., Lawrence, Mass. Cuff	611,351	Sept. 27	2211	511	84	1919
Brogan, Jesse, Meservey, Iowa. Pneumatic grain-elevator	606,885	July 5	458	98	84	90
Brognard, Henry A., assignor to F. Jellenik, trustee, New York, N. Y. Lamp	615,244	Dec. 6	21	5	85	1415
Broich, Cornelius H., assignor of one-half to G. Kuhn, Elmira, N. Y. Clothes-wringer	614,219	Nov. 15	1746	401	85	993
Broichgans, Stephen, assignor of two-thirds to W. and H. Saefke, Milwaukee, Wis. Gas apparatus	606,703	July 5	121	27	84	26
Broken Hill Proprietary Company. (See Koehler, Walter J., assignor.)						
Brolich, Johann, Ips, assignor to A. Gans, Kemmlach, Austria-Hungary. Blowing-fan	609,571	Aug. 23	2607	610	84	1208
Brombacher, Emil, Buffalo, N. Y. Window-cleaner	600,609	Mar. 15	1803	413 414	82	1602
Bromley, Charles R. (See Lyon, Baxter, assignor.)						
Bromley, Daniel W., Wilmore, Ky. Wire fence	603,168	Apr. 26	2728	620	83	563
Bromley, F. F. (See Hawk, John A., assignor.)						
Bromley, Robert C., Pittsburg, Pa. Valve	605,384	June 7	626	140	83	1472
Bromley, William. (See Hann, Bromley, Price, Smith, and Radclyffe.)						
Bronson, Adelbert E., Cleveland, Ohio. Steel range	606,510	June 28	2730	629 630	83	1931
Brook, Edward, Huddersfield, England. Furnace	613,755	Nov. 8	956	219 220	85	819
Brooke, Isaac, Pottstown, assignor to Floyd, Wells & Co., Royersford, Pa. Wood-stove	610,026	Aug. 30	3430	794	84	1382
Brooker, Charles F., Ansonia, assignor to Coe Brass Manufacturing Company, Torrington, Conn. Edging attachment for rolling-mills	607,110	July 12	893	193	84	191
Brookes, Henry J., Cape Hill, and A. B. Davis, Winson Green, England. Manufacture of wheel-hubs and machinery therefor	608,950	Aug. 9	1437	338 339	84	951
Brookes, Robert C., Forest, Miss. Stirrup-fender	610,640	Sept. 13	912	209	84	1633
Brookfield, Henry M., assignor to W. Brookfield, New York, N. Y. Press for making insulators	596,651	Jan. 4	339	74, 75	82	67
Brookfield, Henry M., New York, and S. Kribs, Brooklyn, assignors to W. Brookfield, New York, N. Y. Press for making insulators	596,652	Jan. 4	343	75, 76	82	68
Brookfield, William. (See Brookfield, Henry M., assignor.)						
Brookfield, William. (See Brookfield and Kribs, assignors.)						
Brookfield, William. (See Kribs, Seraphin, assignor.)						
Brookmeyer, Hermann F. L., Osnabrück, Germany. Folding cart	611,675	Oct. 4	146	36	85	31
Brooks, Byron A., Brooklyn, N. Y. Printing-telegraph	606,329	June 28	2412	559 560	83	1868
Brooks, Byron A., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	598,653	Feb. 8	1004	242 243	82	810
Brooks, Byron A., assignor to Union Typewriter Company, New York, N. Y. Type-writing machine	608,831	Aug. 9	1214	284	84	909
Brooks, David, Verona, N. J. Cutting-machine	601,868	Apr. 5	482	99	83	90
Brooks, David W., and W. J. Van Dyke, Falls City, Neb. Wire-cloth holder and measurer	611,051	Sept. 20	1630	372	84	1790
Brooks, Edward, Milton, Mass. Bowling-alley	601,626	Apr. 5	6	2	83	4
Brooks, Edward J., East Orange, N. J. Post-office hand-stamp	596,932	Jan. 4	824	196	82	161
Brooks, Edward J., East Orange, N. J. Seal	599,827	Mar. 1	291	65	82	1268
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal	609,495	Aug. 23	2487	581	84	1186
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal	611,889	Oct. 4	515	125	85	103
Brooks, Frank C., assignor of one-half to Joyce-Cridland Company, Dayton, Ohio. Hydraulic jack	605,630	June 14	1054	242	83	1573
Brooks, Howard K., Chicago, Ill. Spring-post for bicycles	599,291	Feb. 15	2075	492	82	1029
Brooks, Isaac B., Oceana, W. Va. Coupling link or ring for chains	599,927	Mar. 1	474	107	82	1303
Brooks, James W., <i>et al.</i> , trustees. (See Ashton, Orrell, assignor.)						
Brooks, James W., <i>et al.</i> , trustees. (See Casgrain, Louis A., assignor.)						
Brooks, James W., <i>et al.</i> , trustees. (See Mayo, Benjamin F., assignor.)						
Brooks, James W., <i>et al.</i> , trustees. (See Raymond, Freeborn F., 2d, assignor.)						
Brooks, John, <i>et al.</i> , trustees. (See Mayo, Benjamin F., assignor.)						
Brooks, John, <i>et al.</i> , trustees. (See Raymond, Freeborn F., 2d, assignor.)						
Brooks, John B., Birmingham, England. Cycle-saddle	600,402	Mar. 8	1419	324 325	82	1510
Brooks, John B., Birmingham, England. Cycle-saddle	606,160	June 21	2079	478 479	83	1782
Brooks, John J., assignor of one-half to H. Boska, Athens, Ohio. Curtain-hanger	609,180	Aug. 16	1889	449	84	1049
Brooks, John S., Brooklyn, N. Y. Combined bail and cover for vessels	600,508	Mar. 15	1637	373	82	1571
Brooks, Leonard B., Independence, Iowa. Clothes-washer	610,120	Aug. 30	3575	828	84	1413
Brooks, Lettie A., administratrix. (See Brooks, Milton G.)						
Brooks, Milton G., deceased, Longton; L. A. Brooks, administratrix, assignor to I. M. Hackney, Wichita, and T. L. Hutchison, Valley Centre, Kans. Tire-setting machine	600,117	Mar. 1	900	206	82	1390
Brooks, Mott B., Oak Point, N. Y. Spraying-machine	597,948	Jan. 25	2576	601	82	549
Brooks, Robert A., Chicago, Ill. Hot-water cylinder and valve mechanism and connections therefor	608,148	July 26	2979	639	84	633
Brooks, Samuel H., <i>et al.</i> (See Beastow, William H., assignor.)						
Brooks, Samuel W., Brownsville, Tex. Protecting shores	611,588	Sept. 27	2671	615 616	84	2005
Brooks, T. H., <i>et al.</i> (See Cockburn, George G., assignor.)						
Brooks, William B., and T. Altman, Fairmont, W. Va. Rock-drill	610,892	Sept. 20	1350	309 310	84	1737
Brooks, William W., assignor of one-half to T. W. Carter, Memphis, Tenn. Propelling mechanism for bicycles	611,557	Sept. 27	2604	600 601	84	1993
Broome, Lewis H., Jersey City, N. J. Curtain-hanger	599,116	Feb. 15	1784	425	82	976
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	603,724	May 10	871	193	83	787
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	603,725	May 10	873	194	83	787
Broome, Lewis H., Jersey City, N. J. Swinging window-sash	610,380	Sept. 6	465	101	84	1527
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	614,828	Nov. 29	2863	658	85	1231
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	615,606	Dec. 6	717	165	85	1553
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	615,607	Dec. 6	719	165	85	1554



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Broome, Lewis H., Jersey City, N. J. Bottle-stopper	616,598	Dec. 27	2566	595	85	1964
Broome, Lewis H., Jersey City, N. J., and J. Buckingham, New York, N. Y. Tile	599,117	Feb. 15	1785	425 426	82	976
Broomell, Albert P., York, Pa. Multiple-tube water-heater	603,169	Apr. 26	2729	621	83	564
Brosius, Amos P. (See Wilson, Unger, Muma, Brosius, and Kuchel.)						
Brosius, Amos P. (See Wilson, Muma, Unger, Schneckloth, Brosius, and Kuchel.)						
Brosnaham, George O., Jr., Pensacola, Fla. Check-punch	599,163	Feb. 15	1864	442	82	989
Brosnaham, George O., Jr., Pensacola, Fla. Fishing-reel	615,526	Dec. 6	580	132	85	1524
Brosnihan, Thomas H., Livermore Falls, Me. Rowlock	609,957	Aug. 30	3303	769	84	1358
Brosnihan, Thomas H., assignor to Millett & Brosnihan, Livermore Falls, Me. Row-boat	609,956	Aug. 30	3301	769	84	1357
Brosnihan, Thomas H., assignor to F. A. Millett and T. H. Brosnihan, Livermore Falls, Me. Bow-facing oar	604,601	May 24	2537	578	83	1158
Brosnihan, Thomas H., assignor to F. A. Millett and T. H. Brosnihan, Livermore Falls, Me. Foot-propelled vehicle	615,796	Dec. 13	1057	248 249	85	1632
Brothers, Albert. (See Brothers, Wilfred C. and A.)						
Brothers, Wilfred C. and A., Lansingburg, N. Y. Sash-balance	601,425	Mar. 29	3217	725	82	1911
Brough, Thomas J., Baltimore, Md. Hydrocarbon-burner. (Reissue)	11,657	Mar. 22	2846	650	82	1818
Brougham, Reginald T. D., assignor to Electrical Vehicle Syndicate, Limited, London, England. Roller-bearing undercarriage	601,336	Mar. 29	3069	692	82	1883
Brougham, Reginald T. D., and W. C. Bersey, assignors to Electrical Vehicle Syndicate, Limited, London, England. Controller for electrically-propelled vehicles	600,509	Mar. 15	1638	373 374	82	1571
Brougham, Reginald T. D., and W. C. Bersey, assignors to Electrical Vehicle Syndicate, Limited, London, England. Suspending batteries on carriages	602,302	Apr. 12	1242	273	83	249
Brougham, Reginald T. D., and W. C. Bersey, assignors to Electrical Vehicle Syndicate, Limited, London, England. Safety device for electric carriages	604,874	May 31	3013	691	83	1268
Broughton, Henry S., Stayton, Oreg. Towel-rack	601,550	Mar. 29	3422	777	82	1954
Brouse, William H., et al. (See McCollum, James H. K., assignor.)						
Brouseau, Gilbert. (See Caron, Ernest, assignor.)						
Brower, Abraham T. H., Chicago, Ill. Lock-up for printers' forms	596,845	Jan. 4	680	157	82	132
Brower, Asher B. (See Bunnell and Brower.)						
Brower, Carrie E. and D. W., Paterson, N. J. Reclining high-chair	608,359	Aug. 2	344	75	84	724
Brower, Daniel W. (See Brower, Carrie E. and D. W.)						
Brower, Hiram B., Oxford, Conn. Seal-lock	599,956	Mar. 1	521	118 119	82	1311
Brower, John, San Francisco, Cal. Composite building material	598,624	Feb. 8	959	231	82	802
Brown, Aaron A., Baltimore, Md. Tide and wave motor	603,314	May 3	117	27, 28	83	624
Brown, Albert. (See Woolf, Brown, and Rickard.)						
Brown, Alexander T., Syracuse, N. Y. Type-writing machine	615,343	Dec. 6	210	52 53 54	85	1454
Brown, Alexander T., Syracuse, N. Y., assignor to W. L. Smith, trustee. System for electrical communication	606,620	June 28	2939	681 682	83	1971
Brown, Alvin, Aurora, Ill. Street-sweeper	605,385	June 7	628	140 141	83	1472
Brown, Anderson W., and J. Meiklejohn, Rhinelander, Wis. Sawing-machine	596,802	Jan. 4	612	141	82	118
Brown, Andrew J., Bold Spring, Ga. Sweep	601,627	Apr. 5	7	2	83	4
Brown, Augusta F., et al. (See Brown, Charles M., assignor.)						
Brown, B. W. (See Musgrave, Samuel M., assignor.)						
Brown & Bailey Company. (See Craw, Joseph T., assignor.)						
Brown, Basil D., et al. (See Penprase, Albert R., assignor.)						
Brown Brothers Manufacturing Company. (See Sullivan, Eugene J., assignor.)						
Brown, C. A. L., et al. (See Balcom, Charles, assignor.)						
Brown, Calvin, San Francisco, Cal. Apparatus for submarine mining and exploration	616,567	Dec. 27	2519	583	85	1956
Brown, Channing J. (See Moss, Jasper H., assignor.)						
Brown, Charles, assignor of one-half to L. C. Danzel, Chicago, Ill. Dental engine	614,829	Nov. 29	2864	659	85	1232
Brown, Charles A., assignor to Mound City Paint and Color Company, St. Louis, Mo. Paint-agitator	616,052	Dec. 13	1519	355	85	1722
Brown, Charles F., trustee. (See Seaver and Chamberlin, assignors.)						
Brown, Charles H. (See Sanderlin, Thomas M., assignor.)						
Brown, Charles H., Jr., et al. (See Penn, George W. and George W., Jr., assignors.)						
Brown, Charles J., Long Island City, N. Y. Bicycle luggage-carrier	601,701	Apr. 5	134	27	83	29
Brown, Charles M. (See Holden and Brown.)						
Brown, Charles M., assignor to A. F. Brown, D. W. Davis, and W. Holder, Ocala, Fla. Shuffle-hoe	602,425	Apr. 19	1446	328	83	305
Brown, Charles M., and E. P. Holden, Chicago, Ill. Can-body	598,555	Feb. 8	836	200	82	779
Brown, Charles S. (See Penn and Brown.)						
Brown, Charles W., Boston, assignor, by mesne assignments, of one-half to L. S. Starr-rett, Athol, Mass. Insulator for incandescent electric lamps	613,647	Nov. 1	751	173	85	759
Brown, Chester W., Jackson, Mich. Type-writer	616,451	Dec. 27	2291	534	85	1913
Brown, Clarence H. (See Langdon and Brown.)						
Brown, Cornelius M., Newark, assignor of one-half to G. Watts, Plainfield, N. J. Door-knob	600,849	Mar. 15	2206	504	82	1679
Brown, Cornelius M., Newark, assignor of one-half to G. Watts, Plainfield, N. J. Combined door-knob and indicator	612,541	Oct. 18	1662	395	85	343
Brown, Cyril P., Spring Lake, Mich. Applicator	605,386	June 7	630	141	83	1473
Brown, David A. (See Durfee and Williams, assignors.)						
Brown, David A., Woodbridge, N. J., and F. M. Williams, Belleville, N. Y. Bicycle-holder	611,856	Oct. 4	462	111	85	93
Brown, Davis, Decatur, Ill. Automatic vending device	597,486	Jan. 18	1792	415	82	382
Brown, Edmund C., Ellsworth, Kans. Aerial flash-light machine	605,572	June 14	931	218	83	1552
Brown, Egbert B. (See Skilton, John W., assignor.)						
Brown Folding Machine Company. (See Wendt, Fredrick H., assignor.)						
Brown, Francis C., New York, N. Y. Fountain-pen	612,013	Oct. 11	754	186	85	158
Brown, Francis N., Chicago, Ill. Artificial tooth for crown and bridge work	604,363	May 24	2106	472	83	1079
Brown, Frank A., West Pike, Pa. Mail-bag	602,723	Apr. 19	1962	446	83	402
Brown, Frank L. (See Darby, Levi I., assignor.)						
Brown, Fred H., Chicago, Ill. Primary-battery cell	598,556	Feb. 8	838	200	82	779
Brown, Frederick W., York, England. Tire	613,298	Nov. 1	22	5, 6	85	622
Brown, George, Brooklyn, N. Y. Toy bowling apparatus	600,712	Mar. 15	1985	452	82	1636
Brown, George, Long Island City, N. Y. Automatic indicator for truing wheels	603,782	May 10	971	217	83	805
Brown, George, New York, N. Y. Elevator-brake	610,256	Sept. 6	207	46, 47	84	1482
Brown, George, New York, N. Y. Combined bowling game	611,828	Oct. 4	415	99	85	82
Brown, George, and E. Dick, Auburn, Me. Automatic tension-governor for warp-beam-ing machines	613,004	Oct. 25	2509	597 598	85	526
Brown, George W., Avoca, Mich. Post-base	611,233	Sept. 27	1988	459	84	1878
Brown, George W., New York, N. Y. Device for washing and cleaning windows	614,696	Nov. 22	2638	600	85	1171



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Brown, Goveurneer G., New York, N. Y. End-bearing	610,341	Sept. 6	384	82	84	1514
Brown, Goveurneer G., New York, N. Y. Machine for corking bottles	610,381	Sept. 6	466	102 103	84	1528
Brown, Harold P., New York N. Y. Planet-gear motion-transmitting and speed-varying mechanism	603,253	May 3	17	5	83	604
Brown, Hawthorn J. (See Fitz George and Brown.)						
Brown, Herbert C., assignor of two-thirds to L. Westervelt and G. Trotter, New York, N. Y. Combined bed, tent, boat, &c	611,829	Oct. 4	417	99 311 312 313 314	85	83
Brown, Horace F., Chicago, Ill. Ore-roasting furnace	607,420	July 19	1472		84	318
Brown, Horatio A. (See Andrews, Daniel L., assignor.)						
Brown, Ira H., et al. (See Koch, Alexander, assignor.)						
Brown, Ira W., New York, assignor of one-half to R. Latta, Brooklyn, N. Y. Sash-holder	596,958	Jan. 4	878	206	82	171
Brown, Ira W., assignor of one-half to R. Latta, New York, N. Y. Combination sash lock and lift	605,196	June 7	249	58	83	1398
Brown, Irving E. (See Suydam, John H., Sr., assignor.)						
Brown, James C., et al. (See Weaver, William R., assignor.)						
Brown, James G., assignor to Reading Cycle Manufacturing Company, Reading, Pa. Bicycle-crank	605,472	June 14	767	176	83	1521
Brown, James H. (See Gilman and Brown.)						
Brown, James M., assignor of one-half to W. A. and L. D. Peak, Exeter, Ill. Lock	597,387	Jan. 18	1608	375	82	347
Brown, James M., and L. D. Peak, Exeter, Ill. Car-coupling	603,889	May 10	1182	267	83	846
Brown, James W., Ortonville, Minn. Watch-dial fastener	613,556	Nov. 1	608	140	85	732
Brown, Jarome A., Portsmouth, Ohio. Office and building directory	596,959	Jan. 4	880	207	82	171
Brown, Joe A. (See Carter, James E., assignor.)						
Brown, Joel H., and J. Burns, Jerome Junction, Ariz. Ter. Truck	611,890	Oct. 4	517	125	85	103
Brown, John, Providence, R. I. Bicycle-wheel	602,552	Apr. 19	1660	377	83	345
Brown, John, Conneaut, Ohio. Wrench	606,270	June 28	2306	534	83	1847
Brown, John D., Richmond, N. Y. Device for protracting land surveys	604,517	May 24	2387	542	83	1129
Brown, John F., Toronto, Canada, and A. O. Kittredge, New York, N. Y. Account-book	598,590	Feb. 8	895	215	82	790
Brown, John H., et al. (See Sheriff, James E., assignor.)						
Brown, John H., et al. (See Sherwood, William E., assignor.)						
Brown, John H., Horton, Kans. Heating-stove	609,773	Aug. 30	2968	694 695	84	1291
Brown, John R., Harrison Hot Springs, Canada. Rock-drill	607,337	July 12	1317	281	84	272
Brown, John W., Fort Wayne, Ind. Razor-strop casing	603,074	Apr. 26	2571	583	83	532
Brown, John W., Jr., Philadelphia, Pa. Double-turret lathe	610,319	Sept. 6	343	73, 74	84	1507
Brown, John W., assignor to Collins Plow Company, Quincy, Ill. Cultivator	615,210	Nov. 29	3634	835	85	1381
Brown, Joseph T., Houstonia, Mo. Instrument for measuring distances	601,493	Mar. 29	3330	753	82	1934
Brown, Lewis S., Columbus, Ohio. Coin-controlled tire-pump	605,696	June 14	1171	270	83	1596
Brown, Lewis S., assignor to himself and J. C. Jennings, Columbus, Ohio. Pneumatic railway-signal	607,338	July 12	1320	282	84	273
Brown, Marvel C., Denton, Tex. Folding wagon-box step	597,706	Jan. 25	2157	505	82	469
Brown, Mary R., Swedesborough, N. J. Device for keeping lids on boilers	603,103	July 26	2911	623	84	620
Brown, Millard F., Kansas City, Mo. Cooking utensil	615,957	Dec. 13	1345	314	85	1687
Brown, Oliver J. (See Cummins, John W., assignor.)						
Brown, Perry, Wilmington, Del. Rail-joint chair	598,134	Feb. 1	103	24	82	622
Brown, Perry, Wilmington, Del. Draft and buffer mechanism	598,765	Feb. 8	1189	286 287	82	845
Brown, Perry, Wilmington, Del. Lifting-jack	605,072	Oct. 7	10	3	83	1355
Brown, Perry, Wilmington, Del. Car-coupling	612,396	Oct. 18	1419	343	85	297
Brown, Philip, Jr., Haverstraw, N. Y. Door-latch	613,659	Nov. 8	772	176	85	784
Brown, Philip C., New Albany, assignor of one-half to J. I. Irwin, Columbus, Ind. Car-coupling	607,731	July 19	2195	463 464	84	462
Brown, Ralph, Leroy, Mich. Saw-set	615,798	Dec. 13	1059	249	85	1632
Brown, Robert P., Philadelphia, Pa. Paper box	610,522	Sept. 13	713	162	84	1592
Brown, Samuel H., and R. S. Steely, Reading, Pa. Ore-concentrator or placer-mining machine	615,424	Dec. 6	392	94	85	1489
Brown, Schuyler C. (See Green and Brown.)						
Brown & Sharpe Manufacturing Company. (See Beale, Oscar J., assignor.)						
Brown & Sharpe Manufacturing Company. (See Burlingame, Luther D., assignor.)						
Brown & Sharpe Manufacturing Company. (See Burnham, William G., assignor.)						
Brown & Sharpe Manufacturing Company. (See Burnham and Parker, assignors.)						
Brown & Sharpe Manufacturing Company. (See Davenport, William S., assignor.)						
Brown & Sharpe Manufacturing Company. (See Norton, Charles H., assignor.)						
Brown & Sharpe Manufacturing Company. (See Spalding, Frank, assignor.)						
Brown, Sidney G., London, England. Dynamo-electric machine or motor	613,116	Oct. 25	2685	635	85	561
Brown, Taylor E. (See Berg, John V., assignor.)						
Brown, Theodore H., Viroqua, Wis. Broom	604,000	May 10	1370	312	83	884
Brown, Thomas E., New York, N. Y. Hydraulic lift	604,364	May 24	2107	472 473	83	1079
Brown, Thomas E., Jr., assignor to Otis Brothers & Company, New York, N. Y. Pilot-valve	597,388	Jan. 18	1610	375	82	347
Brown, Thomas J., New Ross, Ind. Highway-crossing for railways	601,237	Mar. 29	2871	654	82	1845
Brown, Thomas J., Sedalia, Mo. Aerial ship	610,843	Sept. 13	1258	290	84	1703
Brown, Thomas S., assignor to Adriance, Platt & Company, Poughkeepsie, N. Y. Mower	604,851	May 31	2967	680	83	1259
Brown, Walter, Cresco, Iowa. Gasolene-stove	608,388	Aug. 2	393	87	84	733
Brown, William, assignor of one-half to N. T. Batchelor, Como, Tex. Wire-tightener	606,833	July 5	375	80	84	75
Brown, William B., Baltimore, Md. Engine	598,851	Feb. 8	1320	319 320	82	871
Brown, William B., Baltimore, Md. Engine	598,852	Feb. 8	1324	321	82	871
Brown, William E., Aral, assignor of one-half to C. Roberts, Honor, Mich. Governor	616,399	Dec. 20	2200	514	85	1874
Brown, William F., Maquoketa, Iowa. Lawn-sprinkler	608,646	Aug. 9	863	199	84	844
Brown, William H., Indianapolis, Ind. Floor	614,530	Nov. 22	2326	533	85	1114
Brown, William H., assignor of one-half to D. Le Roy, Alpena, Mich. Excelsior-machine	610,893	Sept. 20	1355	310	84	1738
Brown, William J., Toronto, Canada. Carriage-gear	615,797	Dec. 13	1059	249	85	1632
Brown, William M. (See Thomas and Brown.)						
Brown, William M., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Electric system of propulsion	599,162	Feb. 15	1863	441	82	989
Brown, William M., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Electric railway	599,828	Mar. 1	292	65	82	1268
Brown, William M., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Electric contact-shoe	602,495	Apr. 19	1560	355	83	327



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Brown, William M., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Electric railway	613,794	Nov. 8	1030	234	85	833
Brown, William O., Savanna, Ill. Rotary engine	616,522	Dec. 27	2449	567	85	1943
Brown, William T., Jacksonville, Ill. Piano-stool	611,891	Oct. 4	519	125	85	103
Brown, William Z., assignor of one-half to L. K. Marko, Atlas, Ill. Pulverizer	612,818	Oct. 25	2191	521	85	464
Brown, Willis S., assignor to National Sewing Machine Company, Belvidere, Ill. Crank-shaft for velocipedes	596,846	Jan. 4	681	157	82	132
Brown, Willis S., assignor to National Sewing Machine Company, Belvidere, Ill. Means for adjusting sprocket-chains for velocipedes	613,237	Nov. 1	21	5	85	621
Brown, Wilson, Galveston, Tex. Bicycle-gearing	609,077	Aug. 16	1694	403	84	1015
Browne, Arthur B. (See Kittson and Browne.)						
Browne, Arthur W. (See Johnston and Browne.)						
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Electrical surgical engine	600,135	Mar. 8	983	219	82	1426
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental-engine handpiece	606,755	July 5	224	48	84	46
Browne, Arthur W., New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Fountain-spittoon	612,659	Oct. 18	1899	449 450	85	388
Browne, Arthur W., New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Head-rest for dental chairs	612,660	Oct. 18	1901	450 451	85	388
Browne, Arthur W., and C. M. Kennedy, Prince's Bay, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Saliva-ejector	602,572	Apr. 19	1692	385	83	350
Browne, Emily B., Dedham, Mass. Carpet-sweeper	601,628	Apr. 5	8	2	83	4
Browne, H. T., et al. (See Himes, Judson W., assignor.)						
Browne, Richard B., New York, N. Y. Door-hanger	615,674	Dec. 13	843	195	85	1591
Browne, Ross E. (See Behr and Browne.)						
Browne, Thomas R., Altoona, Pa. Impact-tool	615,245	Dec. 6	21	5	85	1415
Brownell, Alexander C., assignor of one-half to H. T. McDonald, Providence, R. I. Roller-bearing	615,675	Dec. 13	844	195	85	1591
Brownell, Frank A., Rochester, N. Y. Photographic camera	610,153	Aug. 30	3621	842	84	1422
Brownell, Frank A., Rochester, N. Y. Photographic shutter	610,154	Aug. 30	3624	842 843	84	1423
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-plate holder	604,455	May 24	2264	508	83	1109
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera	605,851	June 21	1489	340 341	83	1673
Brownell, George L., Worcester, Mass. Winding mechanism	614,830	Nov. 29	2866	659	85	1232
Brownell, Harry G. (See Palmer and Brownell.)						
Browning, George, Bootle, assignor of one-third to J. H. Parker, Waterfort, England. Supporting and locking appliance for bicycles, &c.	611,589	Sept. 27	2672	616 617	84	2005
Browning, John M., Ogden, Utah, assignor to Winchester Repeating Arms Company, New Haven, Conn. Box-magazine firearm	599,595	Feb. 22	2675	626 627	82	1167
Browning, William J., Bayonne, N. J. Removable calk for horseshoes	603,360	May 3	199	45	83	640
Brownson, James S. (See Jones and Brownson.)						
Bruce, Robert, Allegheny, Pa. Rotary engine	616,766	Dec. 27	2892	670 671	85	2029
Bruce, Thomas J., Mayburg, Pa. Picture-hanger	615,799	Dec. 13	1061	250	85	1633
Bruce, William C. (See Dippo, Bruce, Semple, and Powell.)						
Bruch, Frederick W., assignor to Acme Machinery Company, Cleveland, Ohio. Bolt-heading machine	607,157	July 12	981	212	84	206
Bruck, Georg, Berlin, Germany. Ventilated shoe	611,830	Oct. 4	419	100	85	83
Bruck, Henry, New York, N. Y. Permutation-lock	599,596	Feb. 22	2683	627	82	1169
Brucker, Francis, Shelby, Ohio. Wheel-tire	611,052	Sept. 20	1633	373	84	1790
Bruckner, Ernst. (See Belt and Bruckner.)						
Bruemmer, Louis D., Ahnapee, Wis. Wheat cleaner and heater	615,382	Dec. 6	307	72	85	1472
Bruestle, Andrew, et al. (See Schwechler, John, assignor.)						
Bruffey, William E., Springdale, Ark. Tire and means for securing same in place	596,475	Jan. 4	15	4	82	6
Bruguiere, Frederick J. F., New Orleans, La. Engine	599,381	Feb. 22	2268	536 537	82	1089
Bruhn, Friedrich W. G., Berlin, Germany. Fare indicating and registering apparatus for cabs, &c.	605,442	June 7	724	163	83	1492
Brundage, Edwin L., East Orange, N. J. Horse-collar	599,981	Mar. 1	559	129	82	1319
Brundage, Reuben L., assignor of one-half to C. M. North, Cairo, Nebr. Marking attachment for planters	599,992	Mar. 1	575	133	82	1322
Brundin, Per W., assignor to New York Venetian Blind Company, New York, N. Y. Venetian blind	601,612	Mar. 29	3515	801	82	1971
Brune, Gustav H., Lawrence, Kans. Weed-cutting implement	607,392	July 12	1415	302	84	290
Brunelle, George, Red Lake Falls, Minn. Windlass	609,871	Aug. 30	3142	734	84	1326
Bruner, Martin, Buckland, Ohio. Farm-gate	612,514	Oct. 18	1616	385	85	335
Bruning, William H. (See Flora, Clarence P., assignor.)						
Brunjes, Dietrich H., et al. (See Craig, William S., assignor.)						
Brunn, Henry, and F. Longtin, Buffalo, N. Y.; said Longtin assignor to said Brunn. Draft-gear for vehicles	599,033	Feb. 15	1655	391	82	952
Brunner, Florian, Munich, Germany. Boring-tool	613,660	Nov. 8	773	177	85	785
Brunner, Henry, Jr., San Francisco, Cal. Trunk-harness	602,496	Apr. 19	1561	355	83	327
Bruno, Charles O., assignor of one-half to R. Sager, Rockford, Ill. Mitering-machine	600,118	Mar. 1	902	206	82	1391
Bruno, Frans, New York, N. Y. Window raising and locking device	608,173	Aug. 2	9	3	84	656
Brunson, Hartwell L. (See Brunson, Wesley B. and H. L.)						
Brunson, Henry H., et al. (See Jenkins, Edwin J., assignor.)						
Brunson, Wesley B. and H. L. Fleming, Ga. Rail-brace for railway-tracks	608,507	Aug. 2	598	134	84	774
Brunswick-Balke-Collender Company. (See Bensinger, Moses, assignor.)						
Brunswick-Balke-Collender Company. (See Reisky, Emil, assignor.)						
Brush, Egbert, Smithtown, N. Y. Thrill-coupling	609,181	Aug. 16	1890	450	84	1049
Brusseau, Edward, Jefferson, S. D. Vehicle-wheel scraper	612,819	Oct. 25	2194	521	85	464
Brustlein, Henri A., Unieux, France. Armor-piercing projectile	602,972	Apr. 26	2401	548	83	501
Brutschke, Fritz, Charlottenburg, Germany. Plowing apparatus	614,363	Nov. 15	2025	467	85	1045
Brya, Augustus F., Champaign, Ill. Farm-gate	602,892	Apr. 26	2248	512	83	472
Bryan, James, Pittsburg, Pa. Rail-connector	597,949	Jan. 25	2577	602	82	550
Bryan, James, Pittsburg, Pa. Apparatus for removing car-wheels, &c.	613,851	Nov. 8	1116	254 255	85	849
Bryan, Joseph D., Valle Cruces, N. C. Car-coupling	601,119	Mar. 22	2650	605	82	1777
Bryan Manufacturing Company. (See Couper, James H., assignor.)						
Bryan, S. M. (See McGowan, John C., assignor.)						
Bryan, Thomas A. (See Couper and Bryan.)						
Bryan, Thomas A. (See Couper and Bryan.) (Reissue.)						
Bryan, Thomas A. (See Day and Glacken, assignors.)						
Bryan, Thomas A., and J. H. Couper, Baltimore, Md. Acetylene-gas generator	603,397	May 3	263	58, 59	83	650



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Bryant, Henry E., Boston, Mass. Roll-holding camera	608,026	July 26	2798	{ 594 595	{ 84	597
Bryant, John M., Minneapolis, Minn. Thill or pole coupling	599,382	Feb. 22	2272	537	82	1090
Bryanton, George, Harriman, Tenn. Neck-yoke connection	611,444	Sept. 27	2398	550	84	1952
Bryce, Alexander F. (See Bryce, Peter F. and A. F.)						
Bryce Baking Company. (See Bryce, Peter F. and A. F., assignors.)						
Bryce, Peter F. and A. F., assignors to Bryce Baking Company, Chicago, Ill. Bread-making machine	601,221	Mar. 22	2836	648	82	1811
Bryner, Elmer E., <i>et al.</i> (See Gannoe, Thomas A., assignor.)						
Brysch, Joseph, Skronskau, Germany. Whistle-pipe	611,028	Sept. 20	1590	364	84	1782
Bublitz, Friedrich J., Friedheim, Ind. Candle-holder	603,871	May 10	1149	258	83	840
Bubser, Fidel, Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Polishing-machine	613,353	Nov. 1	243	55	85	664
Buchanan, George, Philadelphia, Pa. Artificial tooth	607,211	July 12	1073	232	84	223
Buchanan, John L., assignor to Steel Motor Company, Johnstown, Pa. Electric contact device	599,891	Mar. 1	412	92	82	1291
Buchanan, Marque, Windsor, assignor of one-half to J. Baxter, Fairland, Ill. Cattle-guard	601,120	Mar. 22	2652	605	82	1777
Buchanan, Robert, Liverpool, England. Tire	602,934	Apr. 26	2342	534	83	490
Buchanan, Robert, Bootle, England. Tire	602,935	Apr. 26	2343	535	83	490
Buchanan, Robert H., assignor of one-half to J. H. Brewer, Swifton, Ark. Folding crib	609,496	Aug. 23	2489	581	84	1186
Buchel, Jules, and F. McGloin, New Orleans, La. Electrohydrostatic automatic car-brake	606,330	June 28	2418	{ 560 561	{ 83	1870
Bucher & Gibbs Plow Company. (See Ream, George W., assignor.)						
Buchholtz, John P., Philadelphia, Pa. Shoe-heel	596,847	Jan. 4	683	158	82	133
Buchmüller, Friederica. (See Müller, Frank, assignor.)						
Buchnau, William M., Columbia, Tenn. Antirattling thill-coupling	599,218	Feb. 15	1948	462	82	1005
Buchtel, Luise, New York, N. Y. Portable coal-sifter	605,175	June 7	210	52	83	1390
Buck, Alexander C., Jamesburg, N. J. Holder for nursing-bottles	611,857	Oct. 4	463	111	85	93
Buck, Fred, and T. Huss, Saginaw, Mich. Water-filter	602,823	Apr. 26	2149	487	83	453
Buck, Fredrick A., and J. D. Valentine, Urbana, Ohio. Sawing-machine	597,950	Jan. 25	2578	602	82	550
Buck, James A., Crescent, assignor of one-half to L. Vermilyea, Cohoes, N. Y. Potato-digger	602,497	Apr. 19	1562	356	83	327
Buck, Michael J., <i>et al.</i> (See Reagan, Dominick, assignor.)						
Buck, Sterling P., and C. L. Meaker, Abilene, Tex.; said Meaker assignor to W. R. Buck, Front Royal, Va. Fire-escape	608,419	Aug. 2	456	102	84	746
Buck, William R. (See Buck and Meaker, assignors.)						
Buckbee, Charles E., Flushing, Mich. Pneumatic tire and repairing same	606,271	June 28	2307	534	83	1848
Buckeye Malleable Iron and Coupler Company (See Timms, James, assignor.)						
Buckham, George T. (See Dawson and Buckham.)						
Buckham, George T. (See Vickers and Buckham.)						
Buckham, George T. (See Vickers, Dawson, and Buckham.)						
Buckingham, John. (See Broome and Buckingham.)						
Buckingham, Roswell H., Evanston, Ill. Valve	603,592	May 3	633	141	83	724
Buckles, Isaac P., Fulford, Colo. Meat or vegetable cutter	606,511	June 28	2732	631	83	1931
Buckley, James, Liverpool, assignor of two-thirds to J. H. Buckley, Chew Moor, and E. Ashworth, Manchester, England. Ring spinning and doubling machinery	614,831	Nov. 29	2868	659	85	1232
Buckley, John. (See Hyde and Buckley.)						
Buckley, John and T., New York, N. Y. Cuspidor	600,354	Mar. 8	1344	308	82	1496
Buckley, John H., <i>et al.</i> (See Buckley, James, assignor.)						
Buckley, John P., New Orleans, La. Electric sounding device for ships	608,104	July 26	2912	623	84	620
Buckley, Michael, <i>et al.</i> (See Sullivan, Michael E., assignor.)						
Buckley, Michael G. F., assignor of one-half to B. F. Schwartz, New York, N. Y. Plaster-board	608,570	Aug. 9	714	163	84	817
Buckley, Michael G. F., assignor of one-half to B. F. Schwartz, New York, N. Y. Plaster-board	616,074	Dec. 20	1560	364	85	1746
Buckley, Thomas. (See Buckley, John and T.)						
Bucklin, John E., assignor to A. C. Moses, Washington, D. C. Cigarette-machine	603,872	May 10	1150	259	83	840
Buckman, Joseph B., Cleveland, Ohio. Hat-body-shaping apparatus	605,073	June 7	10	3	83	1355
Buck's Stove and Range Company. (See Thompson, William, assignor.)						
Buda Foundry and Manufacturing Company. (See Moore, David A., assignor.)						
Budd, J Talman, Buffalo, N. Y. Elevator for grain, &c	601,409	Mar. 29	3187	{ 719 720	{ 82	1905
Budd, James D., Independence, Kans. Laundry apparatus	597,602	Jan. 18	1975	460	82	420
Buddle, George T., Chicago, Ill. Sprocket-wheel	613,756	Nov. 8	958	220	85	820
Budds, William T., Charleston, S. C. Electric-circuit controller	598,358	Feb. 1	492	118	82	695
Budds, William T., Charleston, S. C. Electric call-box system	598,853	Feb. 6	1330	321	82	872
Bueb, Julius. (See Reichardt and Bueb.)						
Buehler, Henry W., Brooklyn, N. Y. Necktie-fastener	604,365	May 24	2110	474	83	1079
Buehler, John G., assignor to Buehler & Platt, New York, N. Y. Ball-bearing	613,489	Nov. 1	506	114	85	712
Buehler, John G., assignor to Buehler & Platt, New York, N. Y. Ball-bearing	613,490	Nov. 1	508	115	85	712
Buehler, Louis, assignor of one-half to F. D. Wheeler, Detroit, Mich. Combined check and stop valve	610,470	Sept. 6	616	138	84	1557
Buehler & Platt. (See Buehler, John G., assignor.)						
Buek, Charles E. (See Heindl, Joseph E., assignor.)						
Buek, Charles E., Richmond, Va. Sectional feed-roll for gang-edgers	606,886	July 5	459	98	84	90
Buell, Arthur H., Herndon, Va. Necktie-fastener	601,011	Mar. 22	2486	565	82	1744
Buell, Edward W. (See Moe, Buell, Roberts, and Conkling.)						
Buell, Edward W., Chicago, Ill., assignor to Troy Laundry Machinery Company, Limited, Troy, N. Y. Dampening-machine	600,191	Mar. 8	1078	244	82	1445
Buell, Edward W., assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Mechanical feed device	607,212	July 12	1074	232	84	223
Buell, Henry A., <i>et al.</i> (See Johnston, Lysander, assignor.)						
Buerkle, August, Allegheny, Pa. Gas-burner	601,426	Mar. 29	3218	{ 725 726	{ 82	1912
Buffington, Leroy S., Minneapolis, Minn. Acetylene-gas lamp	614,438	Nov. 22	2169	499	85	1087
Buffington, Leroy S., Minneapolis, Minn. Acetylene-gas generator	614,439	Nov. 22	2173	499	85	1087
Buffington, Leroy S., Minneapolis, Minn., assignor to Buffington Light Company, of New Jersey. Acetylene-gas-generating lamp	614,440	Nov. 22	2176	499	85	1088
Buffington Light Company. (See Buffington, Leroy S., assignor.)						
Buffington, Washington, Perry, Kans. Nut-lock	597,260	Jan. 11	1387	324	82	285
Buford, William W. (See Tuttle, Gutie H., assignor.)						
Bugg, Owen T., Jr., New York, N. Y. Portable electric lamp	614,318	Nov. 15	1933	446	85	1027
Bugg, Owen T., Jr., New York, N. Y. Electric battery	615,246	Dec. 6	24	6	85	1416
Buhles, William C. (See Carter and Buhles.)						
Buhoup, Harry C., Chicago, Ill., assignor to McConway & Torley Company Pittsburg, Pa. Release-rigging for railway-cars	604,718	May 31	2758	{ 630 631	{ 83	1219



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Buhrman, Edward R., Cincinnati, Ohio. Bottle-stopper remover	597,874	Jan. 25	2446	570	82	525
Buick, David D., Detroit, Mich. Leg for bath-tubs	603,254	May 3	21	6	83	604
Buick, David D., Detroit, Mich. Bath-tub	611,029	Sept. 20	1590	365	84	1783
Builders Specialty Manufacturing Company. (See Mitchell, Ferris A., assignor.)						
Buist, David, Bernardsville, N. J., and E. Breakell, New York, N. Y. Testing-trap	605,387	June 7	632	141	83	1473
Bukoutz, Mehin E., Lamoille, Ill. Incubator	608,508	Aug. 2	599	134	84	774
Buland, Knut, Linn Grove, Iowa. Shaft or tongue coupling	613,557	Nov. 1	610	141	85	732
Bulkeley, Worthington. (See Smack and Bulkeley.)						
Bulkley, Edmund R., trustee. (See Campbell, Charles H., assignor.)						
Bulkley, James G., assignor of one-half to H. Lawton, New York, N. Y. Extension-chair	613,964	Nov. 8	1300	295 296	85	885
Bulkley, John M., Monroe, assignor of one-fifth to C. F. Burton, Detroit, Mich. Adjustable chair	601,035	Mar. 22	2520	573	82	1750
				545 546	84	552
Bull, Edward A., London, England. Apparatus for saving life from fires, &c	607,912	July 26	2575	602	82	550
Bull, George A., Marion, Ohio. Car and locomotive replacer	597,951	Jan. 25	2579			
Bullis, Frances, <i>et al.</i> (See Bullis, Frederick O., assignor.)						
Bullis, Frederick O., assignor to F. Bullis, Brighton, Goss & Co., Rochester, and L. H. Bannister, Evans, N. Y. Bicycle	597,098	Jan. 11	1134	268	82	237
Bullis, Fredrick O., Brighton, N. Y. Bicycle driving mechanism	612,542	Oct. 18	1663	495	85	343
Bullis, Justin B., assignor to Ann Arbor Manufacturing Company, Ann Arbor, Mich. Curtain-fixture	606,442	June 28	2630	605	83	1911
Bullis, William R., Chatham, N. Y. Gasolene-engine	597,389	Jan. 18	1612	375	82	348
Bullock, Arthur S., Pomona, Mich. Potato-digger	600,403	Mar. 8	1420	325	82	1510
Bullock, Benoni A., Elba, Mich. Dehorner	601,996	Apr. 5	711	151	83	134
Bullock Electric Manufacturing Company. (See Burke, James, assignor.)						
Bullock, John H., Logan, Utah. Washing-machine	601,121	Mar. 22	2654	606	82	1777
Bullock, Orvis W. (See Peck, William A., assignor.)						
Bullock, Thomas R. S., Providence, R. I. Cushion for billiard-tables	613,407	Nov. 1	356	82	85	683
Bullock, William F. (See Collyer, William C., assignor.)						
Bullock, William F. (See Collyer and Bullock.)						
Bullock, William J., assignor of two-thirds to F. C. Rockwell and F. S. French, Hartford, Conn. Air-valve	611,211	Sept. 20	1919	444	84	1845
Bumbaugh, William. (See Grove, Richard, assignor.)						
Bumpus, Delos H. (See Hutchison and Bumpus.)						
Bumpus, Lyman. (See Hutchison and Bumpus.)						
Bundick, George E., assignor of seven-twentieths to J. E. O'Quinn, Big Cane, La. Bicycle-support	611,374	Sept. 27	2268	524	84	1930
Bundy, Frank. (See Turner and Wiles, assignors.)						
Bundy, Frank E., Elmira, N. Y. Acetylene-gas generator	608,571	Aug. 9	714	163	84	817
Bundy, Frank E., Elmira, N. Y. Acetylene-gas generator	610,937	Sept. 20	1423	327	84	1751
Bundy, Harry. (See Young and Bundy.)						
Bundy, Jehu D., and A. L. Jackson, De Kalb, Tex. Railway-signal	612,014	Oct. 11	755	186 187	85	158
Bundy, Willard L., Binghamton, N. Y. Workman's time-recorder	605,159	June 7	184	46, 47	83	1386
Bungay, George J., Paterson, N. J. Bicycle handle-bar	608,572	Aug. 9	716	164	84	818
Bunker, Walter E., Natick, Mass. Paper bag	599,219	Feb. 15	1949	462	82	1006
Bunn Cigar Rolling Machine Company. (See Bunn, John, assignor.)						
Bunn, John, assignor to Bunn Cigar Rolling Machine Company, Binghamton, N. Y. Cigar-header and wrapper-stretcher	601,410	Mar. 29	3192	720	82	1906
Bunn, John, assignor to Bunn Cigar Rolling Machine Company, Binghamton, N. Y. Cigar-wrapping machine	601,411	Mar. 29	3193	720	82	1907
Bunn, John, assignor to Bunn Cigar Rolling Machine Company, Binghamton, N. Y. Cigar-rolling machine	610,754	Sept. 13	1095	251	84	1670
Bunnell, Daniel, and A. A. Brower, Arkansas City, Kans. Wire-tightener	604,578	May 24	2502	569	83	1151
Bunnell, Jesse H., Brooklyn, N. Y. Wave-motor	601,238	Mar. 29	2872	655	82	1845
Bunnell, Jesse H., Brooklyn, and C. J. Kintner, New York, N. Y. Implement for discharging liquids in form of a stream	599,383	Feb. 22	2274	537 538	82	1090
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Wheeled scraper	598,281	Feb. 1	378	88	82	673
Bunting, Stuart, Birmingham, England. Pneumatic tire	596,980	Jan. 11	920	217	82	195
Buob, Fred, Cincinnati, Ohio. Vehicle-bow trimming	596,803	Jan. 4	613	141	82	118
Burbank, Henry S. (See Ruhe and Burbank.)						
Burch, Henry B., Washington, D. C. Convertible vehicle	601,551	Mar. 29	3423	777	82	1955
Burchard, Alonzo H., Colorado Springs, Colo. Railway-lantern attachment	613,491	Nov. 1	509	115	85	712
Burchell, Robert T., assignor to S. K. Wilson, Trenton, N. J. Hose-machine	612,766	Oct. 18	2085	494 495	85	423
Burchfield, Sarah O., Pittsburg, Pa. Folding basket	603,873	May 10	1151	259	83	840
Burden, James A., Troy, N. Y. Mechanism for converting continuous rotary motion into intermittent rotary motion	608,573	Aug. 9	717	164	84	818
Burdett, Frederick A., New York, N. Y. Mechanism for operating valves	600,944	Mar. 22	2369	539	82	1723
Burdett, Oliver H., New Athens, assignor of one-half to W. F. Okey and F. Mooney, Woodsfield, Ohio. Indicator for oil-wells	597,572	Jan. 18	1925	448	82	409
Burdett-Rowntree Manufacturing Company. (See Rowntree, Harold, assignor.)						
Burdett-Rowntree Manufacturing Company. (See Smith, Humphrey R., assignor.)						
Burdick, Charles L., London, England. Pressure-gage	599,682	Mar. 1	11	3	82	1219
Burdick, Hiram M. (See Wiard and Burdick.)						
Burdick, M. E. (See Burdick, Orrin C., assignor.)						
Burdick, Orrin C., assignor to M. E. Burdick, Buffalo, N. Y. Forging-machine	612,557	Oct. 18	1697	403	85	350
Burfoot, Joseph B., Mobile, Ala. Combined school desk and seat	605,268	June 7	407	92	83	1429
Burford, George W., Verona, Pa. Shoe-fastener	603,052	Apr. 26	2525	574	83	524
Burford, Henry G., assignor to E. G. Brewer, London, England. Frame for velocipedes	612,231	Oct. 11	1125	270	85	230
Burger, Emil, New York, N. Y. Scuttle-door	598,975	Feb. 15	1553	369	82	931
Burger, Franz. (See Williams, Henry M., assignor.)						
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Electric block system	602,208	Apr. 12	1081	237	83	217
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Elastic tire and rim	607,824	July 26	2396	508	84	519
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Sand-blast	607,825	July 26	2397	509	84	519
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Intermittent electric surface conductor	614,082	Nov. 15	1497	343	85	947
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Machine for cleaning fabrics	614,832	Nov. 29	2869	660	85	1232
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Butter cake and means for making same	602,124	Apr. 12	923	201	83	187
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Self-closing faucet	607,732	July 19	2198	464	84	462



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Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Cigar-moistener and pressure device	607,826	July 26	2400	510	84	519
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Regulator or power-generating attachment for elevators	607,827	July 26	2401	510	84	519
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Fuel-feeding mechanism for furnaces	607,828	July 26	2403	510	84	520
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-fourth to said Williams. Window-ventilator	613,354	Nov. 1	246	55	85	665
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Telephone	615,344	Dec. 6	227	54, 55	85	1458
Burger, Heinrich, Lichtenthal, and T. Lutz, Baden-Baden, Germany. Bandage	609,497	Aug. 23	2490	581	84	1186
Burger, Leopold F., assignor of three-fourths to V. P. Van Horne, Dayton, Ohio. Gas-engine	598,496	Feb. 8	729	176	82	758
Burger Manufacturing Company. (See Waller, Arthur R., assignor.)						
Burger, Remy, Toronto, Canada. Refracting globe or chimney for lamps	616,400	Dec. 20	2201	514	85	1874
Burger, Rudolf, Port Richmond, N. Y. Paper decoration	603,619	May 10	697	155	83	752
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock-case	612,397	Oct. 18	1422	344	85	298
Burgess, Charles T. and W. B. Brentwood, England. Bicycle	606,704	July 5	124	27	84	27
Burgess, Edward T., Columbus, Ohio. Plumber's furnace	604,518	May 24	2388	543	83	1129
Burgess, Edward W., assignor to Milwaukee Harvester Company, Milwaukee, Wis. Grain-binder	602,028	Apr. 5	763	164	83	144
Burgess, James R., Port Huron, Mich. Cook-stove	609,264	Aug. 16	2063	490	84	1086
Burgess, Louis, Waterloo, N. Y. Propelling mechanism for bicycles or similar vehicles	610,382	Sept. 6	471	103	84	1529
Burgess, Luther C., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	604,456	May 24	2265	509	83	1109
Burgess, Luther C., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	606,756	July 5	228	49	84	47
Burgess, Luther C., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	607,016	July 12	684	149	84	156
Burgess, Luther C., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	607,421	July 19	1480	315	84	319
Burgess, William B. (See Burgess, Charles T. and W. B.)						
Burget, M. H., et al. (See Gauntner, Rudolph, assignor.)						
Burgher, John. (See Linton and Burgher.)						
Burgin, Alfred, Springfield, Mass. Water supplying and controlling apparatus for water-closet tanks	607,652	July 19	2075	433	84	438
Burgland, Andrew, assignor to E. Burgland, Chicago, Ill. Pail, &c.	601,702	Apr. 5	135	27	83	29
Burgland, Ellen. (See Burgland, Andrew, assignor.)						
Burgland, Peter, assignor of one-half to F. R. Newman, Dodge City, Kans. Whiffletree attachment	603,315	May 3	118	28	83	625
Burgon, Frederick, Sheffield, England. Machine for shearing, cutting, or clipping wool, hair, &c.	616,448	Dec. 27	2287	533	85	1912
Burgwall, Oscar R. E. von, and L. Ofenschüssl, Vienna, Austria-Hungary. Primary element with regenerable negative electrode	603,890	May 10	1184		83	846
Burhans, Paul C., assignor of one-half to W. Finn. Sedgwick, Kans. Lawn-mower	605,074	June 7	12	4	83	1355
Burk, Alfred E. (See Hulme, James, assignor.)						
Burke, Frederick W., Rochester, N. Y. Car-strap	605,075	June 7	14	4	83	1356
Burke, Henry A., San Antonio, Tex. Churn	601,427	Mar. 29	3219	726	82	1912
Burke, Horace B., Fort Pierce, Fla. Sheep-shears	604,821	May 31	2915	667	83	1249
Burke, James, New York, N. Y., assignor to Bullock Electric Manufacturing Company, of Ohio. Apparatus for starting motors	611,558	Sept. 27	2609	601 602	84	1994
Burke, Jerome B., et al. (See Crane and Esch, assignors.)						
Burke, John C., Middlesborough, Ky. Timepiece	604,297	May 17	1964	440	83	1031
Burke, John J., Nanticoke, Pa. Journal-box	597,797	Jan. 25	2323	542	82	501
Burke, Stephen E., Edon, Ohio. Button-remover	601,943	Apr. 5	636	133	83	119
Burke, Stephen E., Edon, Ohio. Tire-tightener	610,958	Sept. 20	1464	334	84	1758
Burke, Stephen E., Edon, Ohio, assignor of one-half to W. A. Kantz, Bristol, Ind. Horse-collar fastener	598,075	Feb. 1	12	3	82	605
Burke, Thomas, Basswood, Wis. Pump-head	599,073	Feb. 15	1712	406	82	963
Burke, Walter P., St. Paul, Minn. Barrel-cover	616,447	Dec. 27	2286	533	85	1912
Burke, William E., Wiotia, Wis. Rope ascender or descender	598,976	Feb. 15	1554	369	82	931
Burke, William S., et al. (See Wright, Edwin, assignor.)						
Burkhardt, Charles F., Buffalo, N. Y. Bicycle-stand	603,422	May 3	309	69, 70	83	659
Burkhart, Henry A. (See Welch and Burkhardt.)						
Burkhart, Holliday H., Tuscumbia, Ala. Safety-bridge for cars	608,751	Aug. 9	1040	239	84	879
Bürklin, Victor, assignor to J. Hartjen, New York, N. Y. Combined lamp burner and wick	602,391	Apr. 12	1388	311	83	279
Burland, William H., Punta Gorda, Fla. Newspaper or book protector	607,339	July 12	1322	282	84	273
Burleigh, Joseph A., Laconia, N. H., assignor to Providence Knitting Machine Company, Providence, R. I. Narrowing and widening mechanism for circular-knitting machines	596,933	Jan. 4	826	196 197	82	161
Burlingame, Edward A., Clayton, N. Y. Reversible envelop	608,752	Aug. 9	1041	239	84	879
Burlingame, Luther D., Pawtuxet, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Milling-machine	597,390	Jan. 18	1615	376	82	348
Burmah Oil Company (See Campbell and Urie, assignors.)						
Burner, Allen C., Green Bank, W. Va. Gate	609,774	Aug. 30	2970	695	84	1291
Burnes, John C., Hopkins, Minn. Stable appliance	599,763	Mar. 1	157	38, 39	82	1245
Burneson, John C., and O. G. Richey, St. Louis, Mo. Grate and furnace	596,570	Jan. 4	192	43	82	39
Burneson, John C., and O. G. Richey, St. Louis, Mo. Apparatus for cleaning steam-boilers	596,571	Jan. 4	194	44	82	39
Burnet, William, San Francisco, Cal. Lawn-mower	613,834	Nov. 8	1090	248	85	844
Burnett, Alfred E., Jr., Cincinnati, Ohio. Fluid-pressure regulator	614,441	Nov. 22	2178	500	85	1088
Burnett, Henry M., San Francisco, Cal. Laying-out or lining device	607,153	July 12	983	213	84	207
Burnett, Wesley, assignor of one-half to T. E. Morford, Cambridge, Mass. Valve	606,404	June 28	2553	592	83	1894
Burnett, William H., Red Hook, N. Y. Connection	600,961	Mar. 22	2393	545	82	1727
Burnham, Alfred S., Wildomar, Cal. Folding canopy for bicycles or vehicles	614,364	Nov. 15	2027	467 468	85	1045
Burnham & Co., D. H. (See Shankland, Edward C., assignor.)						
Burnham, Frank A., assignor to Chandler & Price Company, Cleveland, Ohio. Means for securing chases in platen printing-presses	597,928	Jan. 25	2530	591	82	540
Burnham, Frank A., assignor to Chandler & Price Company, Cleveland, Ohio. Tympan for platen printing-presses	597,952	Jan. 25	2582	603	82	552
Burnham, Frank A., assignor to Chandler & Price Company, Cleveland, Ohio. Means for actuating ink-disks in platen printing-presses	603,496	May 3	469	104	83	691
Burnham, Frank A., assignor to Chandler & Price Company, Cleveland, Ohio. Impression throw-off for platen printing-presses	604,719	May 31	2760	631	83	1219



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Burnham, Franklin P., assignor to Miami Cycle and Manufacturing Company, Middletown, Ohio. Lower rear fork and main driving-sprocket for bicycles	600,329	Mar. 8	1305	298	82	1488
Burnham, George, <i>et al.</i> (See Austin, William L., assignor.)						
Burnham, George, <i>et al.</i> (See Vauclain, Samuel M., assignor.)						
Burnham, George H., Lawrence, assignor to E. Rogers, Lynn, Mass. Display-stand	605,307	June 7	478	107	83	1443
Burnham, Shepard. (See Rosbrook and Burnham.)						
Burnham, William G., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Gear-cutting machine	607,982	July 26	2691	<div>573 574 575</div>	<div>84</div>	<div>574</div>
Burnham, William G., and J. Parker, assignors to Brown & Sharpe Manufacturing Company, Providence, R. I. Screw-machine	616,654	Dec. 27	2686	622	85	1987
Burnham, Williams & Co. (See Johnson and Lukens, assignors.)						
Burnip, John T., Melbourne, Victoria. Brush	606,184	June 28	2124	487	83	1810
Burnley, James A. (See Burnley, William, assignor.)						
Burnley, William, Miamisburg, Ohio, assignor to J. A. Burnley, Cottonwood Falls, Kans. Soldering-flux	608,973	Aug. 9	1479		84	960
Burns, Dennis H., Chicago, Ill. Furnace	608,105	July 26	2913	623	84	620
Burns, Edward L., <i>et al.</i> (See Culbertson, Andrew J., assignor.)						
Burns, George J., Ayer, Mass. Paper-drying apparatus	602,799	Apr. 19	2099	474	83	427
Burns, George J., Ayer, Mass. Child's waist	608,149	July 26	2981	640	84	633
Burns, George J., and D. L. Chandler, Ayer, Mass.; said Chandler assignor to said Burns. Apparatus for molding celluloid, &c	597,929	Jan. 25	2531	591	82	540
Burns, James, Cincinnati, Ohio. Funeral-car	604,602	May 24	2539	579	83	1158
Burns, James, Verona, Pa. Producing steel	610,701	Sept. 13	1003		84	1652
Burns, James, Verona, Pa. Manufacture of alloys of copper and iron	616,599	Dec. 27	2567		85	1964
Burns, James F., <i>et al.</i> (See Lonergan, Philip J., assignor.)						
Burns, John. (See Brown and Burns.)						
Burns, Joseph H., Cleveland, Ohio. Pie-rack	605,473	June 14	767	176	83	1521
Burns, Joseph H., Munising, assignor of one-half to J. Lightbody, St. Clair, Mich. Elevator for tanning-vats	611,352	Sept. 27	2211	511	84	1919
Burns, Matthew A. (See King and Burns.)						
Burns, O. S., <i>et al.</i> (See Blackwell, Mat, assignor.)						
Burns, Peter C., Chicago, Ill. Telephone-receiver	605,594	June 14	973	225	83	1559
Burns, William E., <i>et al.</i> (See Blackwell, Mat, assignor.)						
Burns, Willis B., Syracuse, N. Y. Molding-machine	603,423	May 3	311	70	83	660
Burr, Archer H., Omaha, Nebr. Incubator	611,728	Oct. 4	247	60	85	50
Burr, Bradley, Chicago, Ill. Vehicle-wheel	597,707	Jan. 25	2159	505	82	470
Burrell & Co., D. H. (See Gillette, George D., assignor.)						
Burrell & Co., D. H. (See Hoyt and Feldmeier, assignors.)						
Burrell, Frederick J., Thetford, England. Furniture-caster	609,137	Aug. 16	1817	431	84	1036
Burrell, Frederick J., Thetford, England. Tube-cutter	609,138	Aug. 16	1817	432	84	1036
Burridge, Lee S. (See Marshman and Burridge.)						
Burridge, Lee S., New York, N. Y. Stapling-machine	600,510	Mar. 15	1639	374	82	1571
Burridge, Lee S., New York, N. Y. Cash register and indicator	608,509	Aug. 2	600	<div>134 135</div>	<div>84</div>	<div>774</div>
Burrill, Elvyn F., Oakland, Cal. Program-clock	601,850	Apr. 5	450	91	83	84
Burroughs, Alonzo N., A. K., and T. O., Mechanicsville, Iowa. Marker-gage for corn-planters	609,775	Aug. 30	2971	695	84	1291
Burroughs, Arthur K. (See Burroughs, Alonzo N., A. K., and T. O.)						
Burroughs, Mary F., Marshall, Mo. Sewing-machine shuttle	606,443	June 28	2631	605	83	1911
Burroughs, Thomas O. (See Burroughs, Alonzo N., A. K., and T. O.)						
Burroughs, William T., assignor of one-half to H. M. Nash, Bluefield, W. Va. Churn	615,676	Dec. 13	846	195	85	1591
Burrowes, Edward T., Portland, Me. Window-screen	610,257	Sept. 6	210	47	84	1483
Burrowes, Edward T., Portland, Me. Window-screen	610,383	Sept. 6	472	103	84	1529
Burrowes, Edward T., Portland, Me. Window-screen	610,384	Sept. 6	474	103	84	1530
Burrowes, Edward T., Portland, Me. Window-screen	610,385	Sept. 6	475	104	84	1530
Burrows, Frank L., Cranston, assignor to D. Wilcox, Providence, and C. A. Wilkinson, Warwick, R. I. Spectacle-frame	606,272	June 28	2308	535	83	1848
Burrows, George H., Somerville, Mass. Stockless anchor	605,076	June 7	15	4, 5	83	1356
Burrows, William, Brooklyn, N. Y. Bath-tub seat	602,125	Apr. 12	924	202	83	187
Burry, John, Fort Lee, N. J. Printing-telegraph system	601,768	Apr. 5	278	55	83	54
Burs, George, assignor of one-third to F. W. Gibson, St. Louis, Mo. Coffee-roaster	603,551	May 3	569	<div>125 126</div>	<div>83</div>	<div>711</div>
Burson, William W., Chicago, Ill. Knitting-machine	616,600	Dec. 27	2568	<div>595 596 597</div>	<div>85</div>	<div>1964</div>
Burson, William W., Chicago, Ill. Knitting-machine	616,601	Dec. 27	2574	<div>597 598</div>	<div>85</div>	<div>1965</div>
Burson, William W., Chicago, Ill., assignor of one-half to J. A. Goldsborough, Washington, D. C. Sheaf-carrier	596,848	Jan. 4	684	158	82	133
Burson, William W., Rockford, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Binding reaping-machine	603,827	May 10	1061	<div>236 237 238 239</div>	<div>83</div>	<div>824</div>
Burt, Alonzo, <i>et al.</i> (See Barrett, Albert, assignor.)						
Burt, Charles A., Baltimore, Md. Machine for lacquering cans	610,165	Sept. 6	9	3	84	1444
Burt, Charles A., Baltimore, Md. Labeling-machine	613,239	Nov. 1	28	6, 7	85	622
Burt, Homer A., Detroit, Mich. Wheelbarrow	600,476	Mar. 8	1554	357	82	1534
Burt, John D. (See Rolph, Henry E., assignor.)						
Burt, Merritt, Jacksonville, Fla. Bicycle attachment	606,185	June 28	2124	488	83	1810
Burt, Oren C. (See McGennis, David, assignor.)						
Burton, Bethel, New York, N. Y. Gun-sight	613,240	Nov. 1	30	7	85	622
Burton, Bethel, New York, N. Y. Combined bayonet and gun-rest	613,241	Nov. 1	32	7	85	623
Burton, Charles F. (See Bulkley, John M., assignor.)						
Burton, Charles S., trustee. (See Crook, Charles M., assignor.)						
Burton, Charles S., Oak Park, Ill. Child's building-blocks	604,708	May 24	2726	623	83	1194
Burton, Charles S., Oak Park, Ill. Automatic acetylene-gas machine	609,226	Aug. 16	1984	471	84	1069
Burton, George D., Boston, Mass. Process of and apparatus for separating metals and by-products from ores by electricity	614,927	Nov. 29	3060	<div>703 704</div>	<div>85</div>	<div>1270</div>
Burton, George D., Boston, Mass. Tempering metal	614,928	Nov. 29	3065	704	85	1270
Burton, George D., Boston, Mass. Process of and apparatus for separating metals from ores by electricity	614,930	Nov. 29	3069	705	85	1271
Burton, George D., Boston, Mass. Electric metal-heating process	615,136	Nov. 29	3462	794	85	1347
Burton, George D., Boston, Mass., assignor to United States Electrical Leather Process Company, of Maine. Tanning hides or skins of animals	614,929	Nov. 29	3067	<div>704 705</div>	<div>85</div>	<div>1271</div>
Burton, James L., assignor of one-half to A. A. Johnson, New Britain, Conn. Bottle	615,800	Dec. 13	1062	250	85	1633



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Burton, John B., Boston, Mass. Door-guard.....	603,620	May 10	698	156	83	752
Burton, Joseph H., Kingston, N. Y. Pocket check-punch.....	615,677	Dec. 13	848	196	85	1592
Burton, Rufus G., Bluefield, W. Va. Kitchen-tongs.....	613,355	Nov. 1	247	56	85	665
Burton, Smith P., Jr. (See Cave, Edward S., assignor.).....						
Burton, William G., Kingston, Jamaica. Life-saving apparatus.....	600,355	Mar. 8	1345	308	82	1496
Burwell, Robert F., New Haven, Conn. Polishing apparatus.....	598,902	Feb. 15	1411	339	82	904
Busch, Albert. (See Bauer and Busch.).....						
Busch, Clarence M. (See Marshall, William M., assignor.).....						
Busch, Francis X., <i>et al.</i> (See Pugh, William J., assignor.).....						
Busch, George, assignor of one-half to H. Lang, Chicago, Ill. Reversing mechanism.....	597,311	Jan. 11	1461	343	82	300
Busch, George W., Detroit, Mich. Identifying device.....	601,869	Apr. 5	483	99	83	90
Busch, Henry C., Chelsea, Mass. Combined picture and frame.....	597,953	Jan. 25	2533	603	82	551
Busch, John G., Potter Valley, Cal. Feed-trough.....	596,804	Jan. 4	614	142	82	118
Büsche, William, Nieuwpoort, Belgium. Indurating apparatus for artificial stone.....	598,411	Feb. 1	599	147	82	716
Buschgens & Sohn, G. (See Hwass, Leonard, assignor.).....						
Busell Lasting Machine Company. (See Preston, Albert F., assignor.).....						
Busenbenz, Jacob J., Chicago, Ill. Composite tire and means for manufacturing same.....	612,767	Oct. 18	2089	495	85	423
Busenbenz, Jacob J., assignor to National Time Recorder Company, Chicago, Ill. Time-recorder.....	596,691	Jan. 4	413	93, 94	82	82
Busenbenz, Jacob J., assignor to National Time Recorder Company, Chicago, Ill. Time-recorder.....	596,692	Jan. 4	420	95, 96	82	83
Bush, Alden, Elyria, Ohio. Dental plugger.....	608,150	July 26	2983	640	84	634
Bush, Charles. (See Staples and Bush.).....						
Bush, Edward H. (See Crane, Seymour, assignor.).....						
Bush, George W., Turtle Creek, Pa. Switch-keeper.....	608,832	Aug. 9	1219	284	84	910
Bush, James W., Sciotoville, Ohio. Paper-holding device.....	603,316	May 3	119	28	83	625
Bush, Joseph. (See Clough and Bush.).....						
Bush, Martin L. (See Upshaw, Foy, assignor.).....						
Bush, Martin L., Lawrence, assignor of one-half to C. F. Swain, Methuen, Mass. Electric-alarm water-column.....	599,220	Feb. 15	1950	462	82	1006
Bush, Matthew. (See Bush, Zachariah T., assignor.).....						
Bush, Robert S., Greensburg, Pa. Switch-lever lock.....	608,833	Aug. 9	1220	285	84	910
Bush, Zachariah T., Grand Rapids, assignor of one-half to M. Bush, Corunna, Mich. Lawn-mower sharpener.....	612,820	Oct. 25	2195	522	85	465
Bushnell, Charles N., Oquawka, Ill. Thatch roofing.....	606,186	June 28	2125	488	83	1810
Busse, Annie, San Antonio, Tex. Toy.....	607,159	July 12	985	213	84	207
Busse, Henry, assignor to C. R. Harris, Williamsport, Pa. Bicycle.....	599,993	Mar. 1	577	133	82	1322
Busse, William J., Chicago, Ill. Ball-bearing for vehicle-hubs.....	612,986	Oct. 25	2479	591	85	520
Bussells, Josephus F., Irvington, Va. Cooking and pressing apparatus.....	604,348	May 17	2073	464	83	1052
Bust, William B., Dunedin, New Zealand. Lock.....	604,652	May 24	2619	599	83	1174
Butcher, Robert, New York, N. Y. Flooring or pavement.....	612,821	Oct. 25	2197	522	85	465
Butler, Albert C., assignor of one-half to J. B. and H. C. Butler, Timpson, Tex. Scraper for cultivators.....	611,195	Sept. 20	1890	436	84	1840
Butler, Charles, <i>et al.</i> (See Beeman, Joseph S., assignor.).....						
Butler, Edward A., Prescott, Ariz. Ter. Pessary-applier.....	615,425	Dec. 6	394	94	85	1489
Butler, Eugene H., Grayson, assignor of one-third to M. L. Butler, Ashland, Ky. Quilt-ing-frame.....	606,915	July 5	497	109	84	99
Butler, George P., Harrison, N. Y. Leaf-stemming machine.....	615,247	Dec. 6	25	6	85	1416
Butler, George P. and W. H., Harrison, N. Y. Machine for stemming tobacco-leaves.....	615,248	Dec. 6	30	6, 7, 8, 9	85	1417
Butler, George W., Palmyra, Canada. Axle-lubricator.....	615,801	Dec. 13	1064	250	85	1633
Butler Hard Rubber Company. (See Gurnee, Isaac Q., assignor.).....						
Butler, Henry C., <i>et al.</i> (See Butler, Albert C., assignor.).....						
Butler, Henry L., Emerson, Nebr. Nut-wrench.....	602,054	Apr. 12	804	174	83	164
Butler, Henry P., New York, N. Y. Chart for facilitating operation of multiplication.....	616,523	Dec. 27	2450	567	85	1943
Butler, James B., <i>et al.</i> (See Butler, Albert C., assignor.).....						
Butler, James W. (See Lawrason, Louis O., assignor.).....						
Butler, Martin L. (See Butler, Eugene H., assignor.).....						
Butler, Michael, Dallas, Tex. Adjustable rack for railway-cars.....	608,437	Aug. 2	483	109, 110, 250, 251	84	751
Butler, Thomas J., Newark, assignor of one-half to W. E. Whittle, Harrison, N. J. Fan attachment for sewing-machines, &c.....	615,802	Dec. 13	1065	251	85	1633
Butler, Walter, <i>et al.</i> (See Beeman, Joseph S., assignor.).....						
Butler, William E. (See Barnard and Butler.).....						
Butler, William H. (See Butler, George P. and W. H.).....						
Butler, William H., Harrison, N. Y. Cutting and printing mechanism.....	609,007	Aug. 16	1561	371, 372	84	991
Butler, William H., assignor of one-half to A. E. and A. D. Cole, Maysville, Ky. Shears-beveler.....	598,977	Feb. 15	1555	369	82	931
Butler, Winfield H., Landenburg, Pa. Bolt-nut.....	602,724	Apr. 19	1963	446	83	402
Butterell, James H., <i>et al.</i> (See Reardon, James A., assignor.).....						
Butterfield, George F., Stoneham, Mass. Shoe sole and heel vulcanizing apparatus.....	596,476	Jan. 4	18	5	82	6
Butterfield, James G. (See Butterfield, Walter V., assignor.).....						
Butterfield, John W., Columbus, Ohio. Mechanism for converting rotary to reciprocating motion.....	605,218	June 7	303	69, 70	83	1409
Butterfield, Samuel W., Three Rivers, Canada. Bark-cutter.....	609,330	Aug. 16	2176	514	84	1108
Butterfield, Walter V., Freeport, Ill., assignor of one-half to J. G. Butterfield, Sioux City, Iowa. Fluid-pressure elevator.....	596,736	Jan. 4	499	114, 339, 340, 341	82	97
Butterfield, William, assignor to Deering Harvester Company, Chicago, Ill. Harvester.....	598,903	Feb. 15	1412	341	82	904
Butterfield, William, assignor to Deering Harvester Company, Chicago, Ill. Butt-adjuster for self-binding harvesters.....	605,388	June 7	633	142	83	1473
Butterworth, James, Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Drying-cylinder for textile machinery.....	614,083	Nov. 15	1499	343	85	947
Butterworth, John. (See Butterworth, William H. and J.).....						
Butterworth, William H. and J., Trenton, N. J. Threshing-machine.....	603,424	May 3	312	71	83	660
Buttifiant, Archibald G. (See Gersant and Buttifiant.).....						
Buttler, William, Redkey, Ind. Apparatus for annealing glassware.....	602,677	Apr. 19	1889	430	83	388
Buttorff, John H., Fort Collins, Colo. Head-gate.....	602,973	Apr. 26	2403	548	83	501
Butts, Henry B., assignor to L. Butts, St. Louis, Mo. Door-fastener.....	603,477	May 3	427	95	83	683
Butts, Henry B., assignor to L. Butts, St. Louis, Mo. Door-fastener.....	604,852	May 31	2968	681	83	1259
Butts, Lucinda. (See Butts, Henry B., assignor.).....						
Butts, William M., <i>et al.</i> (See Calkins and Lindberg, assignors.).....						
Butusov, William P., Chicago, Ill. Soaring-machine.....	606,187	June 28	2126	488, 489	83	1810



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Butz, Alfred S., <i>et al.</i> (See Little, Alexander F., assignor.)						
Butz, August. (See Pulcher, Camielle, assignor.)						
Butz, John A., assignor to L. S. Butz, Pittsburg, Pa. Stirrup for floor-beams	598,135	Feb. 1	104	24	82	622
Butz, Louise S. (See Butz, John A., assignor.)						
Butze, Frank C., and C. C. Hewitt, Chicago, Ill. Car or locomotive wheel	597,174	Jan. 11	1253	293	82	260
Butzer, Albert, Carlyle, Ill. Envelop	598,359	Feb. 1	493	118	82	695
Buxton, Nathaniel, London, England. Securing bags, portmanteaus, &c	613,492	Nov. 1	510	115	85	712
Buxton, Willard H. (See Houghton and Buxton.)						
Buyer, Jacob, Sandusky, Ohio. Sharpening device	609,078	Aug. 16	1695	404	84	1015
Buyten, Hermann, Dusseldorf, Germany. Sand-blast apparatus	614,833	Nov. 29	2871	660	85	1232
Buzzell, John G., Lynn, Mass. Machine for trimming spring-heel shoes	612,307	Oct. 11	1271	307	85	256
Bybee, Addison, <i>et al.</i> (See Duque, Luis, assignor.)						
Byck, David A., <i>et al.</i> (See Gardner, Jacob N., assignor.)						
Byck, Moses S., <i>et al.</i> (See Gardner, Jacob N., assignor.)						
Bye, David M., assignor of one-half to F. L. Post, Midland, Mich. Duplex pen	600,511	Mar. 15	1642	374	82	1572
Bye, Olaves I., Hillsborough, N. D. Music-holder	608,438	Aug. 2	484	110	84	752
Byerly, William A. (See Gibbs, James E., assignor.)						
Byers, Martin L., Hagerstown, Md. Shoe-lace fastener	610,225	Sept. 6	158	35	84	1473
Byfield, John, Chelmsford, Mass. Dress-stay	598,174	Feb. 1	178	41	82	636
Byram, Theodore P., Detroit, Mich. Cupola	607,501	July 19	1794	373	84	388
Byrne, James H. (See Keith and Byrne.)						
Byrne, Morgan S., Jr., Staunton, Va. Faucet	613,024	Oct. 25	2537	604	85	532
Byrne, William M., <i>et al.</i> (See Stadel, John M., assignor.)						
Byrnes, Owen, Granite Butte, Mont. Sampling-machine	608,894	Aug. 9	1221	285	84	910
Byrnes, Thomas C. (See Hawes, Herbert E., assignor.)						
Byrnes, William E., Cleveland, Ohio. Repair connection for water-closet bowls	608,174	Aug. 2	10	3	84	657
Byron, S. A. (See St. John, William W., assignor.)						
Byxbe, Hulbert, Youngstown, Ohio. Type-case	602,631	Apr. 19	1802	411	83	371
Byxbe, John C., Pensacola, Fla. Puzzle	601,428	Mar. 29	3220	726	82	1912
Byxbe, John C., Pensacola, Fla. Buggy-top	613,661	Nov. 8	774	177	85	785
C. A. Edgarton Manufacturing Company. (See Johnson, William H., assignor.)						
C. B. Cottrell & Sons Company. (See Cottrell, Charles P., assignor.)						
C. B. Cottrell & Sons Company. (See Cottrell, Edgar H. and C. P., assignors.)						
C. F. Zimmermann Company. (See McPherson, Frank G., assignor.)						
C. H. Haeseler Company. (See Haeseler, Francis J., assignor.)						
C. Lucke Engineering Works. (See Carius, Wilhelm, assignor.)						
C. R. Remington & Son Company. (See Remington, Charles H., assignor.)						
C. T. Ham Manufacturing Company. (See Bergener, Charles, assignor.)						
C. W. Hunt Company. (See Henning, Gustavus C., assignor.)						
C. W. Hunt Company. (See Hunt, William F., assignor.)						
Cable, Albert, <i>et al.</i> (See Deisher, John R., assignor.)						
Cable, Daniel J., Pittsburg, assignor to F. J. Kleber, Allegheny, Pa. Coin-holder	610,959	Sept. 20	1466	335	84	1759
Cable, Edward R. (See Young and Cable.)						
Cable, James M., assignor of one-half to A. E. Danby, New York, N. Y. Coin counter and roller	613,408	Nov. 1	358	82	85	684
Cabot, John A., assignor of one-half to Devere Electric Company, Cincinnati, Ohio. Mail or parcel elevator	599,550	Feb. 22	2592	608	82	1151
Cadden, George F., Coventry, England. Bicycle-brake	613,965	Nov. 8	1301	296	85	885
Caddick, George, Allegheny, Pa. Bicycle	615,137	Nov. 29	3464	795	85	1347
Cadell, John F., Baltimore, Md. Reamer	598,904	Feb. 15	1416	341	82	905
Cadman, James, and E. Malley, Manchester, England. Seat	598,557	Feb. 8	840	200	82	780
Cadwallader, Aldes H., and E. P. Carolan, San Antonio, Tex.; said Cadwallader assignor to said Carolan. Lantern	613,188	Oct. 25	2799	660	85	584
Cadwell, James, assignor of one-half to A. E. Nicholson, Mill Run, Pa. Car-coupling	615,803	Dec. 13	1068	251	85	1634
Cady, Henry G., Pine Bluff, Ark. Timber or log buoy	598,978	Feb. 15	1556	369	82	932
Cady, Horatio E., Syracuse, N. Y. Fruit-picker	600,256	Mar. 8	1186	268	82	1464
Cady, Richard, Los Angeles, Cal. Railway-switch. (Reissue)	11,687	Aug. 16	2289	542	84	1130
Caesar, August, Butte, Mont. Fixture for curtain-rollers	603,255	May 3	22	6	83	604
Cahen, Emile D. (See Sévène and Cahen.)						
Cahill, Arthur T., <i>et al.</i> , trustees. (See Cahill, Thaddeus, assignor.)						
Cahill, George F., <i>et al.</i> , trustees. (See Cahill, Thaddeus, assignor.)						
Cahill & Hall Elevator Company. (See Hall, Cofran I., assignor.)						
Cahill, James P. J., Worcester, Mass. Closet-cistern	609,079	Aug. 16	1696	404	84	1015
Cahill, John D. (See Johnson and Cahill.)						
Cahill, M. (See Newberry, George W., assignor.)						
Cahill, Mortimer, Lawrence, Kans. Wire-working tool	596,572	Jan. 4	197	44	82	39
Cahill, Patrick J., Utica, N. Y. Testing-cap and clamp	602,281	Apr. 12	1204	264	83	242
Cahill, Thaddeus, New York, N. Y. Linotype-machine, line-casting machine, and machine for making type-bars, linotypes, and matrices	605,777	June 14	1305	302 303 304 312 313 314 315	83	1621
Cahill, Thaddeus, New York, N. Y., assignor to J. B. Lambie, E. H. Jackson, G. F. and A. T. Cahill, trustees. Type-writing machine, &c	604,001	May 10	1371	207 208 209 210 211	83	884
Cahill, Thaddeus, New York, N. Y., assignor to himself, A. J. Cummings, G. F. and A. T. Cahill, and E. H. Jackson, trustees. Type-writing machine	600,119	Mar. 1	903	207 208	82	1391
Cahill, Thaddeus, New York, N. Y., assignor to himself, A. J. Cummings, G. F. and A. T. Cahill, and E. H. Jackson, trustees. Type-writing machine	600,120	Mar. 1	916	209 210 211	82	1394
Cahoon, Clare, Grand Rapids, Mich. Milk-cooler	610,299	Sept. 6	305	66	84	1501
Caillet, Henri J., Paris, France. Rolling-stock	614,697	Nov. 22	2639	600 601	85	1171
Cain, Alfred R. (See Cain, Charles E., assignor.)						
Cain, Charles E., assignor of one-half to A. R. Cain, Milwaukee, Wis. Bicycle	604,226	May 17	1832	411	83	1006
Cain, Ephraim D., Weatherby, Mo. Water-column. (Reissue)	11,662	May 3	691	154	83	735
Cain, John J., Bayonne, N. J. Tubular boiler	615,661	Dec. 6	821	190	85	1574
Cain, Sarah, Huntington, W. Va. Underskirt	604,964	May 31	3152	725	83	1296
Calame, Justin L., St. Louis, Mo. Automatic switch for railways	608,647	Aug. 9	863	199	84	845
Calder, James, <i>et al.</i> (See Russell, William, assignor.)						
Caldon, John, Benkelman, Nebr. Heating feed-cookers	600,512	Mar. 15	1643	375	82	1572
Caldwell, Andrew J., Brooklyn, N. Y., assignor to Henry R. Worthington, Elizabeth, N. J. Duplex engine	596,981	Jan. 11	921	217 218 219	82	196
Caldwell, Frank C., Oak Park, Ill. Spiral conveyer-flight and apparatus for making same	601,429	Mar. 29	3222	726 727	82	1912
Caldwell, Frank E., <i>et al.</i> (See Crandall, Jesse A., assignor.)						
Caldwell, Frank E., Brooklyn, N. Y. Brake for children's carriages	603,005	Apr. 26	2456	559	83	511
Caldwell, James P., Winnsborough, S. C. Cotton-seed planter	607,502	July 19	1796	374	84	388



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Caldwell, John A., Vancouver, Canada. Back-pedaling brake .....	616,075	Dec. 20	1561	364	85	1747
Caldwell, Joseph F., New Wilmington, Pa. Car .....	603,170	Apr. 26	2731	621 622	83	564
Caldwell, Joseph H., <i>et al.</i> , executors. (See King, Charles W.)						
Caldwell, Joseph K. (See Hufty and Caldwell.)						
Caldwell, Lisle B., Johnson City, Tenn. Station-indicator .....	599,829	Mar. 1	294	66	82	1268
Caldwell, William H., New York, N. Y. Non-refillable bottle .....	611,831	Oct. 4	419	100	85	83
Calfee, Joseph S., <i>et al.</i> (See Myers, Francis M., assignor.)						
Calhoun, Alva J. (See Clinkinbeard, Fagan J., assignor.)						
Calhoun, Daniel I., assignor to Calhoun Excavator Company, Chicago, Ill. Combined excavating and back-filling apparatus for sewers, &c .....	597,312	Jan. 11	1463	343	82	301
Calhoun Excavator Company. (See Calhoun, Daniel I., assignor.)						
Calhoun, William. (See Beardsley and Calhoun.)						
California Prepayment Meter Company. (See Hammond and Weegmann, assignors.)						
Calkins, Albert C. (See Johnson, Paul J., assignor.)						
Calkins, Albert C. (See Lonergan and Calkins.)						
Calkins, Daniel N., assignor to Rochester Germicide Company, Rochester, N. Y. Disinfectant-holder .....	597,811	Jan. 25	2343	547	82	505
Calkins, James S., assignor of one-half to T. S. Brice, Hastings, Mich. Device for purifying feed-water .....	608,250	Aug. 2	143	35	84	682
Calkins, William H., and C. A. Lindberg, Grand Rapids, Mich. Spring air-gun .....	614,532	Nov. 22	2329	534	85	1115
Calkins, William H., and C. A. Lindberg, Grand Rapids, Mich. Toy gun .....	614,533	Nov. 22	2330	534	85	1115
Calkins, William H., and C. A. Lindberg, assignors of one-half to A. K. Wheeler and W. M. Butts, Grand Rapids, Mich. Spring air-gun .....	614,531	Nov. 22	2328	534	85	1115
Call, Charles C., Springfield, Mass. Puncture-repair tool for pneumatic tires .....	614,287	Nov. 15	1879	434	85	1017
Call, James P., Redondo, Cal. Hydrocarbon-burner .....	615,211	Nov. 29	3636	835	85	1381
Callaghan, Frank J., Chicago, assignor of one-half to C. H. Crossette, Hinsdale, Ill. Neck-tie-fastener .....	616,822	Dec. 27	2985	695	85	2048
Callaghan, George F., Baltimore, Md. Axle-arm roller-bearing .....	615,662	Dec. 6	824	191	85	1575
Callaghan, William H., Toronto, Canada. Shower-bath apparatus .....	603,171	Apr. 26	2732	622	83	564
Callahan & Co., W. P. (See Raab, John B., assignor.)						
Callanan, Cornelius M., Buffalo, N. Y. Globe-valve .....	605,389	June 7	635	142	83	1474
Callanan, William A., Colorado Springs, Colo. Hat-fastener .....	606,799	July 5	308	64	84	61
Callaway, Edward H., New York, N. Y. Molding-press .....	616,401	Dec. 20	2202	514 515	85	1874
Callendar, Hugh L., Montreal, Canada. Apparatus for electrically measuring temperatures .....	598,905	Feb. 15	1417	341	82	905
Callis, Theodore O., <i>et al.</i> (See Anderson, John A. E., assignor.)						
Callow, John J., Cleveland, Ohio. Graining .....	605,244	June 7	349	80	83	1417
Calnan, James P., Clinton, Iowa. Ore-roasting furnace .....	613,117	Oct. 25	2687	635 636	85	561
Calovit Heating Company. (See Pitney, Albert L., assignor.)						
Calver, William, <i>et al.</i> (See Cottle, Henry F., assignor.)						
Calver, William, Washington, D. C. Solar apparatus .....	603,317	May 3	121	28 29 30	83	625
Calvert, Arthur W., Leeds, England. Metallic wheel .....	608,951	Aug. 9	1439	340	84	951
Calvert, Harry W., McKees Rocks, Pa. Bicycle toe-clip .....	605,390	June 7	636	142	83	1474
Calvert, William J., St. Albans, W. Va. Nut-lock .....	599,764	Mar. 1	160	39	82	1246
Camblin, Arthur E., <i>et al.</i> (See King, Charles L., assignor.)						
Camblin, Enoch J., <i>et al.</i> (See King, Charles L., assignor.)						
Cambria Iron Company. (See Williams, Lewis, assignor.)						
Cambridge, James A. (See Sweeting, James A., assignor.)						
Camden Iron Works. (See Graves, Erwin, assignor.)						
Cameron, Alexander, Jr., Richmond, Va. Box or can .....	602,653	Apr. 19	1835	418	83	377
Cameron, Alexander, Jr., Richmond, Va. Box or can .....	602,654	Apr. 19	1837	419	83	377
Cameron, Daniel, and D. S. Carraway, Omaha, Nebr., assignors to Cudahy Packing Company, Chicago, Ill. Recovering glycerin from tank-water .....	602,725	Apr. 19	1964		83	403
Cameron, Franklin A. (See Scott and Cameron.)						
Cameron, John M., assignor to W. H. Doyle, Philadelphia, Pa. Water-closet valve .....	611,053	Sept. 20	1 74	373 343 344	84	1791
Cameron, Murdick, Minneapolis, Minn. Fabric-turfing machine .....	614,084	Nov. 15	1500	344	85	947
Cameron, Murdick, Minneapolis, Minn. Fabric-turfing machine .....	614,085	Nov. 15	1503	344	85	948
Cammack, Joseph C., Philadelphia, Pa. Warming-shelf for gas or other stoves .....	596,477	Jan. 4	20	5	82	7
Cammeyer, Alfred J., New York, N. Y. Bicycle-shoe .....	599,491	Feb. 22	2494	586	82	1133
Camp, George E., assignor to Chas. H. Childs & Company, Utica, N. Y. Planter .....	612,624	Oct. 18	1834	435	85	376
Camp, Harry F., Carpenter, assignor of one-half to F. H. Trippe, Canton, Pa. Car-coupling .....	604,227	May 17	1833	411	83	1006
Camp, Horace B., Akron, Ohio. Fireproof floor and ceiling .....	601,036	Mar. 22	2521	573	82	751
Camp, Paul R., Marietta, Ga. Trunk, sample-case, &c .....	607,539	July 19	1861	387	84	400
Campagna, Eugene W., Randolph, Mass. Ash remover and sifter .....	599,384	Feb. 22	2277	538	82	1091
Company, Milton E., Hamilton, Mich. Compressed-air disk brake .....	598,766	Feb. 8	1192	287	82	845
Campau, Lawrence M., Detroit, Mich. Bicycle-stand .....	614,442	Nov. 22	2180	500	85	1088
Campbell, Albert A., <i>et al.</i> (See Curtis, Frederic A., assignor.)						
Campbell, Alexander, and A. C. Marable, Archer, Fla. Device for raising and lining railway-tracks .....	601,459	Mar. 29	3273	740	82	1922
Campbell, Alexander, and L. C. Lounsberry, Archer, Fla. Rotary motor .....	613,852	Nov. 8	1118	255	85	849
Campbell, Allan R., Birmingham, assignor to A. Campbell, Huntsville, Ala. Bottle .....	604,720	May 31	2762	631	83	1220
Campbell, Andrew, and J. Urie, Rangoon, Burmah, assignors to Burmah Oil Company, Limited, Rangoon, Burmah, and Glasgow, Scotland. Apparatus for filling oil-cans .....	602,282	Apr. 12	1205	265	83	242
Campbell, Andrew C., Waterbury, Conn., assignor to Remy-Jacoby Can Company, Mansfield, Ohio. Can-wiring machine .....	600,487	Mar. 8	1568	360 361 362	82	1536
Campbell, Andrew C., assignor to E. J. Manville Machine Company, Waterbury, Conn. Automatic slotting-machine .....	611,604	Oct. 4	17	4, 5	85	5
Campbell, Archibald. (See Campbell, Allan R., assignor.)						
Campbell, Benjamin B., <i>et al.</i> (See Curtis, Frederic A., assignor.)						
Campbell, Charles H., assignor to E. R. Bulkley, trustee, Philadelphia, Pa. Acetylene-gas generator .....	600,985	Mar. 22	2435	556	82	1734
Campbell, Charles L., <i>et al.</i> (See Harris, William, assignor.)						
Campbell, Charles M. (See Holden, Ernest M., assignor.)						
Campbell, Charles S. (See Clark, Ernest P., assignor.)						
Campbell & Clute. (See Harshaw, Seth T., assignor.)						
Campbell, Daniel J., New York, N. Y. Package-making machine .....	616,452	Dec. 27	2294	535 536 537	85	1913
Campbell, Daniel J., New York, N. Y., assignor to American Tobacco Company, Newark, N. J. Cigarette-machine .....	610,855	Sept. 13	1279	296	84	1707



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Campbell, Douglas M., assignor of one-fourth to S. Taliaferro, Houston, Tex. Bale-tie.	609,872	Aug. 30	3144	735	84	1327
Campbell, Emma H., Philadelphia, Pa. Clothes-line-prop attachment	613,242	Nov. 1	33	8	85	623
Campbell, Eva K. (See Campbell, Windsor O. and E. K.)						
Campbell, Frank L., assignor of one-third to R. J. Crawford, Pulaski, Va. Rein-shield.	610,797	Sept. 13	1187	274	84	1689
Campbell, George L., Dushore, Pa. Electric-railway system.	611,559	Sept. 27	2612	602	84	1995
Campbell, Hamilton L., St. Louis, Mo. Stair-carpet fastener	615,527	Dec. 6	582	133	85	1525
Campbell, Harry C., Leet, Pa., assignor to Standard Oil Company of New York, New York, N. Y. Vapor-stove.	604,366	May 24	2111	474	83	1079
Campbell & House Combination Freight and Humane Stock Car Company. (See Campbell and Carlton, assignors.)						
Campbell, James, <i>et al.</i> (See Raby, Richard, assignor.)						
Campbell, James, Milwaukee, Wis. Balanced slide-valve	606,119	June 21	2005	460	83	1769
Campbell, James H. (See Holmes and Campbell.)						
Campbell, James H., San José, Cal. Penholder	607,213	July 12	1078	233	84	224
Campbell, Jeremiah, Chelsea, Mass. Sleeper for cable-roads	600,060	Mar. 1	795	181 182	82	1370
Campbell, Jeremiah, Chelsea, Mass. Hoisting and conveying apparatus	602,726	Apr. 19	1967	446 447	83	403
Campbell, Jeremiah, Chelsea, Mass. Hoisting and conveying apparatus	604,893	May 31	3039	697 698	83	1273
Campbell, Jeremiah, Chelsea, Mass. Grab or automatic hoisting-bucket	616,287	Dec. 20	1991	463 464	85	1833
Campbell, Jeremiah, and D. H. Kelley, Chelsea, Mass. Steam-shovel.	600,061	Mar. 1	797	182	82	1370
Campbell, John, Pullman, assignor to Pullman's Palace Car Company, Chicago, Ill. Table-fastener	597,537	Jan. 18	1866	432	82	396
Campbell, John B., Cincinnati, Ohio. Electric extraction of poisons	606,887	July 5	461	98	84	90
Campbell, John D., assignor of one-third to J. E. Weaver, Magalia, Cal. Water-wheel	611,769	Oct. 4	304	73	85	62
Campbell, John D., and M. E. Cummings, Paris, Me.; said Campbell assignor of one-eighth to F. M. Haskell, Boston, Mass. Device for operating railway-gates	603,621	May 10	699	156	83	752
Campbell, John E., Gaines, Pa. Pulley for use on bridles	607,788	July 19	2300	485	84	481
Campbell, Leon J., Chicago, Ill. Oil-burner	607,422	July 19	1482	315	84	319
Campbell, Leon W., Woonsocket, R. I., assignor of one-half to M. Campbell, Boston, Mass. Spindle and spindle-support for spinning-machines	598,669	Feb. 8	1035	249	82	816
Campbell, Lute E., Arkansas City, Kans. Overshoe.	604,367	May 24	2112	474	83	1080
Campbell, Malcolm. (See Campbell, Leon W., assignor.)						
Campbell, Malcolm, Crowell, Mich. Plow	614,790	Nov. 22	2796	641	85	1203
Campbell, Malcolm, Boston, Mass. Spinning-machine	614,834	Nov. 29	2872	661	85	1233
Campbell, Milton T., assignor of one-half to W. H. Thomas, Indianapolis, Ind. Bicycle.	609,498	Aug. 23	2491	582	84	1186
Campbell, Milton T., assignor of one-half to W. H. Thomas, Indianapolis, Ind. Bicycle.	610,157	Aug. 30	3630	844	84	1424
Campbell Printing Press and Manufacturing Company. (See Hawkins, John T., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Stonemetz, John H., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Southgate, Louis W., assignor.)						
Campbell, Richard W., Warren, S. D. Apparatus for exterminating weeds	603,939	May 10	1263	287	83	862
Campbell, Robert, <i>et al.</i> (See Russell, William, assignor.)						
Campbell, Robert, South Haven, Mich. Lifting-jack	609,873	Aug. 30	3145	735	84	1327
Campbell, Robert B., and H. Carlton, Baltimore, Md., assignors to Campbell & House Combination Freight and Humane Stock Car Company, of West Virginia. Car construction	598,136	Feb. 1	104	25 26	82	622
Campbell, Robert J., <i>et al.</i> (See Freeman, Warren P., assignor.)						
Campbell, Singleton, New Waverly, Tex. Disk plow	612,700	Oct. 18	1962	465 466	85	400
Campbell, Thomas B., <i>et al.</i> (See Curtis, Frederic A., assignor.)						
Campbell, Thomas H., Seattle, Wash. Bed attachment	602,055	Apr. 12	805	174	83	164
Campbell, Thomas H., Ashland, Va. Railway-signal	608,280	Aug. 2	188	45	84	692
Campbell, Thomas W. (See Hoke, Campbell, and Bigger.)						
Campbell, Westley P. H., Stockton, Cal. Windmill-regulator	602,153	Apr. 12	984	216	83	198
Campbell, William. (See Ross, Harry S., assignor.)						
Campbell, William J., Milton, N. D. Seat attachment for plows	605,994	June 21	1766	405	83	1724
Campbell, Windsor O. and E. K., Sulphur Springs, Ark. Music-chair	601,727	Apr. 5	200	39	83	39
Campen, Henry C., Baltimore, Md. Roller-machine for forming round can-bodies	606,855	July 5	418	89	84	83
Campen, Henry C., Baltimore, Md. Round tin can	606,856	July 5	418	89	84	83
Campi, Luigi F., assignor to S. A. Keller, New York, N. Y. Milling-machine	597,893	Jan. 25	2473	577 578	82	530
Canady, Lorin W., Toyah, Tex. Throttle-lever	610,027	Aug. 30	3431	795	84	1382
Canavan, John H., <i>et al.</i> (See Fernald, James C., assignor.)						
Cancienne, Ema, Albemarle, La. Sling-trip	607,679	July 19	2116	443	84	445
Canda, Ferdinand E., New York, N. Y. Car-wheel	605,391	June 7	637	142 143	83	1474
Candland, William. (See Betjemann and Candland.)						
Candler, Ezekeel S., Sr. (See Moss, Dan C., assignor.)						
Candlot, Edouard. (See Lavocat and Candlot.)						
Canedy, Ernest E., North Adams, Mass. Shoe-rack	604,875	May 31	3013	692	83	1268
Canedy, Thomas J. (See Pinkham, Almeda A., assignor.)						
Canelopoulos, Jean M., Paris, France. Self-igniting substance	599,221	Feb. 15	1951		82	1006
Canfield, Felix P., Boston, Mass. Compound rotary steam-engine	596,737	Jan. 4	500	114 115	82	97
Canfield, Felix P., Boston, assignor to C. W. Stetson, Newton, Mass. Friction-clutch	597,479	Jan. 18	1778	412	82	379
Canfield, Frank, Boulder, Colo. Wire-holder	601,412	Mar. 29	3196	721	82	1907
Canfield, Frank W., Manistee, Mich. Igniter or sparkers for gas, oil, or vapor engines	612,701	Oct. 18	1964	466	85	400
Canfield, Nathan T., Lynxville, Wis. Bob-sled	606,800	July 5	309	64	84	61
Canfield, Robert H., Corning, N. Y. Back-pedaling brake	602,974	Apr. 26	2404	548	83	501
Cannaday, Harry B., <i>et al.</i> (See Secoy, Samuel E., assignor.)						
Cannaday, John E., <i>et al.</i> (See Secoy, Samuel E., assignor.)						
Canning, Alexander H., Toronto, Canada. Tea-packing machine	604,721	May 31	2763	632	83	1220
Cannon, Alexander G. and E. W., Boston, assignors, by mesne assignments, to C. B. Tuttle, trustee, Lynn, Mass. Flexible shaft device	611,605	Oct. 4	21	5	85	7
Cannon, Alexander G. C. (See Beede and Cannon.)						
Cannon Chemical Company <i>et al.</i> (See Lewis, Edward D., assignor.)						
Cannon, Edward W. (See Cannon, Alexander G. and E. W.)						
Cannon, Frank A., Denver, Colo. Cable-stringer	603,991	May 10	1345	308	83	878
Cano, Lewis, New York, N. Y. Pocket-book	601,051	Mar. 22	2543	579	82	1755
Cantono, Eugène, Pavia, Italy. Dynamo-electric machine or electromotor	614,608	Nov. 22	2476	565	85	1140
Cantril, Theodore N. (See Fairbank and Cantril.)						
Cantwell, Michael, C. B. and E. C. Wood, Boston, Mass. Thermostat or draft-regulator	612,515	Oct. 18	1617	386	85	335



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Canty, William A. (See Simkin, Frank R., assignor.)						
Capen, Thomas W. (See Gates and Capen.)						
Capen, Thomas W., assignor to Gates Iron Works, Chicago, Ill. Stamp-mill	609,408	Aug. 23	2314	546	84	1153
Capewell, George J., Hartford, Conn. Roller bearing	609,776	Aug. 30	2973	695 696	84	1292
Capewell, George J., Hartford, Conn. Roller bearing	609,777	Aug. 30	2975	696	84	1292
Capewell, George J., Hartford, Conn. Roller bearing	609,778	Aug. 30	2977	696	84	1293
Capewell, George J., Hartford, Conn. Truck for railway cars	609,779	Aug. 30	2979	697	84	1293
Capewell, George J., Hartford, Conn. Railway-car truck	609,780	Aug. 30	2982	698	84	1293
Capewell, George J., Hartford, Conn. Car-truck	609,781	Aug. 30	2984	698 699	84	1294
Capewell, George J., Hartford, Conn. Railway-car truck	609,782	Aug. 30	2987	699	84	1295
Capewell, George J., Hartford, Conn. Truck for railway cars	609,783	Aug. 30	2989	700	84	1295
Capewell, George J., Hartford, Conn. Railway-car truck	609,784	Aug. 30	2991	700	84	1295
Capewell, George J., Hartford, Conn. Railway-car truck	609,785	Aug. 30	2993	700	84	1296
Capewell, George J., Hartford, Conn. Air-resistance device for railway-vehicles	609,786	Aug. 30	2995	701	84	1296
Capewell, George J., Hartford, Conn. Window-cleaner	609,787	Aug. 30	2997	701	84	1296
Capewell, George J., Hartford, Conn. Railway-car truck	609,788	Aug. 30	2998	702	84	1296
Capewell, George J., Hartford, Conn. Air-resistance device for railway-vehicles	609,789	Aug. 30	3001	702 703	84	1297
Capewell, George J., Hartford, Conn. Railway	609,790	Aug. 30	3003	703	84	1298
Capewell, George J., Hartford, Conn. Electric railway car truck	610,894	Sept. 20	1358	311	84	1738
Capewell, George J., Hartford, Conn. Power-transmitting mechanism	612,822	Oct. 25	2199	522	85	465
Capewell, George J., assignor to American Specialty Manufacturing Company, Hartford, Conn. Knife-sharpener	615,013	Nov. 29	3228	742	85	1303
Capitain, Henry D., Chicago, Ill. Belt	599,683	Mar. 1	12	3	82	1219
Cappellini, Alfredo, Florence, Italy. Boat-launching device	609,532	Aug. 23	2542	595 596	84	1196
Capwell, Courtland G., Boston, Mass. Dental separator	600,257	Mar. 8	1188	269	82	1465
Caragher, James M., St. Louis, Mo. Drip-trough	600,062	Mar. 1	798	183	82	1371
Carbary, Samuel, Portis, Kans. Vehicle-wheel	615,426	Dec. 6	394	94	85	1489
Carbine, Hugh M. (See Hayes and Carbine.)						
Card, Albert S., Canton, Ohio. Toy	608,835	Aug. 9	1223	285 286	84	911
Card, George F., Covington, Ky. Mining machinery	598,360	Feb. 1	495	118 119 120 121	82	696
Card, Milton E., Cazenovia, N. Y. Cutting-machine	616,823	Dec. 27	2986	696	85	2048
Cardarelli, Emilio, Boston, Mass. Combined step and extension ladder	605,995	June 21	1768	405	83	1724
Cardell, Charles O. L., Pearl River, and O. P. Ostergren, New York, N. Y. Bicycle	596,960	Jan. 4	882	207	82	172
Carden, John, Carpenteria, Cal. Currycomb	607,733	July 19	2199	464	84	462
Carder, Frances M., and G. J. Pickinpaugh, Unionville, Mo. Railway-gate	611,853	Sept. 27	2214	511	84	1920
Carder, Joshua W., assignor to S. J. Carder, Fort Worth, Tex. Hook and bushing for same	603,373	May 3	222	49	83	643
Carder, Sabina J. (See Carder, Joshua W., assignor.)						
Cardin, Frank C., et al. (See Barron, Reid, and McDonnell, assignors.)						
Cardin, Frank C., et al. (See Reid and McDonnell, assignors.)						
Care, David T., West Hanover, Pa. Shutter-worker	597,708	Jan. 25	2160	505	82	470
Carence, Thomas, Horton, Kans. Nostril-protector	598,467	Feb. 1	680	166	82	731
Carey, Arthur. (See Driffield, Carey, and Wright.)						
Carey, Charles S., et al. (See Boyd, George R., assignor.)						
Carey, Newton J., Oskaloosa, Iowa. Heat-generator	609,227	Aug. 16	1987	471 472	84	1070
Carey, William M., Boston, Mass. Unicycle	607,829	July 26	2405	511	84	520
Carey, William P. (See Payssé and Carey.)						
Carius, Wilhelm, Taucha, assignor to C. Lucke Engineering Works, Eilenburg, Germany. Press for artificial stone	598,854	Feb. 8	1331	322	82	872
Carkin, Charles S., Hinsdale, N. H. Hanger for harness	603,940	May 10	1264	288	83	862
Carleton, Amos L., Hartford, Conn. Furnace for forming cast metal	598,694	Feb. 8	1081	260	82	825
Carleton, Cyrus. (See Willcox, Carleton, and Borton.)						
Carleton, Henry G., New York, N. Y. Electromechanical lock	608,319	Aug. 2	267	61	84	708
Carleton, Henry G., New York, N. Y. Electric combination-lock	608,320	Aug. 2	272	61	84	709
Carleton, Henry G., New York, N. Y. Electric lock	608,321	Aug. 2	277	62, 63	84	710
Carleton, Henry G., New York, N. Y. Combination mechanism for electric locks	608,322	Aug. 2	282	63	84	712
Carley, Allen J., assignor of one-half to B. T. Locke, Belmont, La. Hoe-sling	609,731	Aug. 23	2901	678	84	1265
Carley, Oliver F., et al. (See Thurber, Charles F., assignor.)						
Carley, William P., and W. T. Rickards, Camden, N. J. Belt-clamp	606,512	June 28	2733	331	83	1931
Carlinet, John G., Philadelphia, Pa. Pneumatic tool	608,953	Aug. 9	1442	641	84	952
Carling, Albert G., Hackensack, N. J. Clothes-wringer	614,791	Nov. 22	2796	642	85	1203
Carlisle, John M., Spartanburg, S. C. Corn-husker	601,944	Apr. 5	638	133	83	120
Carlisle, William N., Detroit, Mich. Overcheck-bit	610,641	Sept. 13	913	209	84	1633
Carlsen, Soren, Harlan, Iowa. Wagon attachment	613,966	Nov. 8	1302	296	85	886
Carlson, Anton, Pierce City, Mo. Gage-wheel for plows	613,662	Nov. 8	776	177	85	785
Carlson, Aron M., Pierre, S. D. Windmill	608,027	July 26	2800	595	84	597
Carlson, Carl, assignor of two-thirds to C. J. Hedwall and C. B. Shove, Minneapolis, Minn. Steam-feed device for log-carriages	615,475	Dec. 6	484	112 113	85	1505
Carlson, Charles P., assignor of one-half to J. C. O'Connor, McKeesport, Pa. Machine for squaring or truing edges of skelp-iron	599,034	Feb. 15	1657	391	82	952
Carlson, Gabriel, Springfield, Mass., and G. S. Baker, London, England. Confectionery-machine	598,592	Feb. 8	898	215 216	82	791
Carlton & Co. (See Zerffi and Riedel, assignors.)						
Carlton, Frank L., assignor to Carlton Manufacturing Company, Sullivan, Me. Coal-hod	614,931	Nov. 29	3071	705	85	1272
Carlton, Harvey B., Rochester, N. Y. Photographic finder	605,245	June 7	350	80	83	1418
Carlton, Henry E., et al. (See Thompson, William H., assignor.)						
Carlton, Howard. (See Campbell and Carlton.)						
Carlton Manufacturing Company. (See Carlton, Frank L., assignor.)						
Carlton, S. M., et al. (See Mason, William R., assignor.)						
Carlton, William F. (See Locke, Harvey W., assignor.)						
Carman, Florence, assignor of one-third to F. Meade, Philadelphia, Pa. Disinfecting apparatus	597,894	Jan. 25	2475	578	82	530
Carmichael, Henry. (See Schwartz, John, Jr., assignor.)						
Carmichael, Henry, Malden, Mass. Strain-insulator	600,063	Mar. 1	799	183	82	1371
Carmichael, Henry, Malden, Mass. Method of and apparatus for charging liquids with gas	604,018	May 17	1451	325	83	933
Carmichael, Joseph B., Bonita, Tex. Insecticide	605,537	June 14	863		83	1539



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Carmichael, Thomas W., Wellsburg, W. Va. Clay-steamer .....	598,282	Feb. 1	381	88	82	674
Carmody, John T. (See Jacobs and Carmody.)						
Carmont, Hazelwood, London, England. Resilient tire for wheels .....	597,313	Jan. 11	1464	343	82	301
Carnahan, Charles S. (See Carnahan, Louis K. and C. S.)						
Carnahan, Louis K. and C. S., McLouth, Kans. Rotary steam-engine .....	598,906	Feb. 15	1419	<sup>341</sup> 342	82	905
Carnahan, Louis K. and C. S., McLouth, Kans. Rotary steam-engine .....	605,852	June 21	1493	<sup>341</sup> 342	83	1673
Carnegie Steel Company. (See Lanz, John, assignor.)						
Carnegie Steel Company. (See Weber, Peter M., assignor.)						
Carnell, Harry G., Dayton, Ohio. Gas-engine .....	613,757	Nov. 8	959	<sup>220</sup> 221	85	820
Carnes, George C. (See Davenport, John F., assignor.)						
Carnes, John, and C. W. McKibben, Lima, Ohio. Gas-engine .....	603,125	Apr. 26	2665	605	83	551
Carney, James L., Brooklyn, N. Y. Clasp .....	605,219	June 7	305	70	83	1409
Carney, John. (See Cunningham, John, assignor.)						
Carney, Thomas, assignor to National Cash Register Company, Dayton, Ohio. Cash-register .....	606,188	June 28	2133	490	83	1812
Carnrick, John, New York, N. Y. Kumiss compound .....	611,234	Sept. 27	1988	-----	84	1878
Caroe, Johannes, <i>et al.</i> (See Tersling, Hilmar, assignor.)						
Carolan, Eugene P. (See Cadwallader and Carolan.)						
Caroli, Heinrich, Lahr, Germany. Belt .....	604,298	May 17	1967	440	83	1032
Caron, Ernest, Montreal, Canada, assignor to G. Brouseau, Boston, Mass. Cash box or safe .....	616,767	Dec. 27	2894	671	85	2029
Carothers, Robert, and A. Wehr, Glade Mills, Pa. Coupling for well-pumping rigs .....	600,713	Mar. 15	1987	452	82	1636
Carothers, Willis. (See Shellhouse, Edward S., assignor.)						
Carpenter, Amos H., Stockton, Cal. Screw-propeller .....	597,632	Jan. 18	2022	472	82	428
Carpenter, Charles W., <i>et al.</i> (See Crowell, Luther C., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Moody, John H., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See North, Thomas M., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Read, George F., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Sheldon, Edward P., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Spalckhaver, William, assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Stone, Irving, assignor.)						
Carpenter, Daniel S., Chicago, Ill. Shipping-case for fruit .....	597,391	Jan. 18	1619	377	82	349
Carpenter, Ezra, Fisherman's Bay, Cal. Trap .....	610,755	Sept. 13	1103	252	84	1671
Carpenter, Franklin R., Deadwood, S. D. Separating and refining metals .....	597,139	Jan. 11	1196	281	82	249
Carpenter, Jesse F., Washington, D. C. Valve for air-brakes .....	606,513	June 28	2734	631	83	1932
Carpenter, John D. (See Baulieu, William J., assignor.)						
Carpenter, Joseph P. (See Pace and Carpenter.)						
Carpenter, Stephen D., Spokane, Wash. Bicycle .....	600,404	Mar. 8	1422	<sup>325</sup> 326	82	1511
Carpenter, William B., Providence, R. I. Mud-guard for bicycles .....	598,312	Feb. 1	427	102	82	683
Carpenter, William E., Calumet, Mich. Cloth-measuring machine .....	597,836	Jan. 25	2386	556	82	514
Carpenter, William H., Forestville, Conn. Bicycle-valve and valve connection .....	601,460	Mar. 29	3277	740	82	1923
Carper, Calahan C., Amma, W. Va. Spark-arrester for chimneys or flues .....	614,932	Nov. 29	3072	705	85	1272
Carr, Ellis, assignor to Peek, Frean & Co., London, England. Apparatus for cutting biscuits .....	615,804	Dec. 13	1069	251	85	1634
Carr, James A. (See Jones and Carr.)						
Carr, Lawrence P., assignor of one-third to R. Hanson, Concordia, Kans. Disk-sharpener .....	610,226	Sept. 6	159	35	84	1473
Carr, William H., and J. G. Wolf, New York, N. Y. Placket-protector and skirt-supporter .....	603,523	May 3	528	116	83	702
Carr, William P., Nevada, Ohio. Fence-post .....	608,753	Aug. 9	1042	239	84	879
Carraway, Davis S. (See Cameron and Carraway.)						
Carrico, Charles H., Salt Lake City, Utah. Flue-cleaner .....	607,340	July 12	1324	283	84	274
Carrier, Arthur, Bay City, Mich. Machine for compressing sides of swaged saw-teeth .....	613,118	Oct. 25	2692	636	85	562
Carrier, Lyman E. (See Howell, Carrier, and MacLagan.)						
Carrier, William H., Adrian, Mich. Desk attachment .....	606,514	June 28	2736	632	83	1932
Carrington, Albert B., deceased, New York, N. Y.; E. Carrington, administratrix. Optical-illusion cabinet .....	609,009	Aug. 16	1564	372	84	991
Carrington, Elizabeth, administratrix. (See Carrington, Albert B.)						
Carroll, Charles P., and J. I. Gorman, Cleveland, Ohio. Flushing-tank for water-closets .....	602,824	Apr. 26	2150	488	83	453
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Furnace for heating billets .....	616,602	Dec. 27	2579	598	85	1966
Carroll, George P. (See Bird and Carroll.)						
Carroll, Houston M., assignor of one-half to J. P. Oldham, San Antonio, Tex. Artificial tooth .....	597,099	Jan. 11	1135	268	82	238
Carroll, John T. (See Akerlind and Carroll.)						
Carroll, John T., <i>et al.</i> (See Fader, Silas, assignor.)						
Carroll, Louis W., and F. B. Wentworth, Sumner, Iowa, assignors, by mesne assignments, to J. F. Randolph, Chicago, Ill. Lamp .....	615,138	Nov. 29	3465	795	85	1347
Carroll, Patrick J., P. C. Fenton, L. Kline, and L. B. Seltzer, Shenandoah, Pa. Stove-pipe-lock .....	604,019	May 17	1452	325	83	933
Carroll, Walter J., and J. E. Seary, London, England. Finger-ring protector .....	613,243	Nov. 1	34	8	85	623
Carroll, William R., Keatchie, La. Lumber-stacker .....	607,214	July 12	1079	233	84	224
Carrothers, Elizabeth I. B., Tiro, Ohio. Match-box .....	610,227	Sept. 6	160	36	84	1473
Carrothers, James, Epworth, Ohio. Loading apparatus .....	609,409	Aug. 23	2315	546	84	1154
Carrothers, James, Epworth, Ohio. Drag-saw .....	612,088	Oct. 11	887	214	85	184
Carruthers, Marguretta E. (See Carruthers, William H., assignor.)						
Carruthers, William H., assignor to M. E. Carruthers, Chicago, Ill. Nut-lock .....	614,835	Nov. 29	2873	661	85	1233
Carse, Joseph H., South Seattle, Wash. Crosscut-saw .....	615,805	Dec. 13	1072	251	85	1635
Carson, James W. (See Funk, Mark M., assignor.)						
Carson, Leonidas W., Elma, Iowa. Motor .....	608,836	Aug. 9	1226	286	84	911
Carson, Robert J., New York, N. Y., assignor to Iron-Clad Asphalt Paving Company, of New York. Pavement .....	598,670	Feb. 8	1037	250	82	816
Carson, William W., Knoxville, Tenn. Riprap .....	607,215	July 12	1081	233	84	225
Carstens, Henry. (See Janofsky, Alexander M., assignor.)						
Carter, Clarence W., assignor to L. Warden, Chicago, Ill. Puzzle .....	598,855	Feb. 8	1332	322	82	873
Carter-Crume Company (See Doughty, George E., assignor.)						
Carter, Edward C., Chicago, Ill. Switch and signal connection .....	599,492	Feb. 22	2495	587	82	1133
Carter, Elsworth G., Coal Bluff, Ind. Railway-tie .....	608,648	Aug. 9	865	199	84	845
Carter, Everett. (See Flagg, George C., assignor.)						
Carter, Floyd H., Beloit, Wis. Wire-stretcher .....	601,239	Mar. 29	2876	655	82	1846
Carter, James, Lockport, N. Y. Ash-sifter .....	614,534	Nov. 22	2331	531	85	1116
Carter, James B., Culpeper, Va. Fodder-compressor .....	605,220	June 7	306	70	83	1409
Carter, James E., assignor of one-half to J. A. Brown, Bridgeport, Cal. Station-indicator .....	613,967	Nov. 8	1304	297	85	886



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Carter, James R. (See Crowell, Charles H., assignor.)						
Carter, Jesse M., Bowie, Tex. Return-envelope	604,722	May 31	2764	632	83	1220
Carter, John R., Cincinnati, Ohio. Journal and bearing	605,996	June 21	1770	406	83	1725
Carter, John R., Cincinnati, Ohio. Washing-machine	607,913	July 26	2576	546	84	552
Carter, John R., assignor to E. H. Huenefeld, Cincinnati, Ohio. Heating-stove	608,574	Aug. 9	720	165	84	819
Carter, Joseph, and W. Richmond, Blyth, Canada. Earth-auger	598,856	Feb. 8	1333	322	82	873
Carter, Josiah S., Lynn, Mass. Vehicle-tire	600,828	Mar. 15	2170	495	82	1671
Carter, Josiah S., Lynn, Mass. Machine for making and driving glaziers' points	616,603	Dec. 27	2580	599	85	1966
Carter, Lincoln J., Chicago, Ill. Theatrical appliance	611,054	Sept. 20	1635	373	84	1791
Carter, Richard F., Niagara, Canada. Apparatus for producing acetylene gas	598,048	Jan. 25	2737	639	82	581
Carter, Richard F., Niagara, Canada. Apparatus for producing acetylene gas	598,767	Feb. 8	1193	288	82	846
Carter, Robert, Jonesville, Mich. Wire-fence machine	606,120	June 21	2006	460	83	1770
Carter, Roy F. (See Grey, Ernst, assignor.)						
Carter, Samuel. (See Hipwell, Daniel E., assignor.)						
Carter, Silas W., and W. C. Buhles, San Francisco, Cal. Propeller	606,986	July 5	606	132	84	120
Carter, Stewart F., assignor to Windsor Company, North Adams, Mass. Producing white effects on fabrics	606,776	July 5	271	-----	84	54
Carter, Stewart F., assignor to Windsor Company, North Adams, Mass. Producing white effects on fabrics	606,777	July 5	272	-----	84	54
Carter, Thomas, Pittsburg, Pa. Device for applying wall-paper	609,008	Aug. 16	1563	372	84	991
Carter, Thomas W. (See Brooks, William W., assignor.)						
Carter, William, Glasgow, Scotland. Mechanism for pasting bottoms of paper bags	611,055	Sept. 20	1637	374	84	1791
Carter, William S., Lebanon, N. H. Hunting-coat	605,077	June 7	16	5	83	1356
Cartier, Paul A., Darnetal, France. Machine for making paper boxes	606,916	July 5	499	109 110	84	99
Cartledge, Wright R., assignor of one-half to J. H. S. Kerr, Toronto, Canada. Bandage fabric	616,524	Dec. 27	2455	568	85	1944
Cartter, Leroy B. (See Kramer and Cartter.)						
Cartwright, Aaron S., Birmingham, England. Tire-valve	597,954	Jan. 25	2584	603	82	551
Cartwright, Aaron S., Birmingham, England. Tire-valve	603,941	May 10	1265	288	83	862
Cartwright, Alonzo H., Amy, Wis. Combination potato-masher, kettle-cleaner, and vegetable-fork	604,965	May 31	3153	725	83	1296
Cartwright, Edwin. (See Doyle and Cartwright.)						
Cartwright, George W., et al. (See Cook, Frederick W., assignor.)						
Carty, Charles F., Washington, N. C. Hydraulic pump	610,798	Sept. 13	1189	274	84	1689
Caruso, John, New York, N. Y. Bicycle	614,260	Nov. 15	1841	425	85	1010
Caruthers, John I., Ingleside, Tex. Saw	604,603	May 24	2540	579	83	1159
Carver, Albert N., Chicago, Ill. Pressure-regulator for air-pumps	614,535	Nov. 22	2393	535	85	1116
Carver, Edwin, assignor of one-third to J. M. W. Langsdale, Florence, Ind. Thrust-bearing	612,398	Oct. 18	1422	344	85	298
Carver, George W., Brookline, Mass. Box	603,256	May 3	23	6	83	604
Carver, George W., Brookline, Mass. Chimney-holder for lamp-burners	609,139	Aug. 16	1819	432	84	1037
Carver, Thomas A. B., London, England. Jacquard mechanism for looms	604,299	May 17	1968	441	83	1032
Carver, Walter S., Bloomfield, N. J. Double envelop	604,723	May 31	2765	632	83	1220
Carver, William E., Castle Rock, Colo. Whiffletree	614,220	Nov. 15	1747	402	85	993
Carver, William F., Chicago, Ill. Stage appliance	604,020	May 17	1453	325	83	933
Carveth, Frances A., Toronto, Canada. Hook and eye	616,402	Dec. 20	2209	515	85	1876
Cary, Alonzo, Richmond, Ind. Type-writer desk	612,987	Oct. 25	2481	591	85	520
Cary, Charity, et al. (See Cary, Edward, assignor.)						
Cary, Edward, assignor to A. Gilbert and C. Cary, New York, N. Y. Thermostat	614,288	Nov. 15	1881	435	85	1018
Cary, Herbert O., assignor to I. L. Ellwood Manufacturing Company, De Kalb, Ill. Coated metallic article	612,190	Oct. 11	1055	-----	85	216
Cary, James H., Springfield, Mass. Device for operating electric switches	607,830	July 26	2407	511	84	521
Cary, John B., assignor of one-half to M. C. Delavy, Baltimore, Md. Electrical cooking apparatus	608,952	Aug. 9	1441	341	84	952
Casaday, William L., South Bend, Ind. Boiler-flue cleaner	615,427	Dec. 6	395	95	85	1490
Casaday, William L., South Bend, Ind. Flue-cleaning apparatus	615,428	Dec. 6	397	95	85	1490
Casalunga, Dominique A., Paris, France. Steam-generator	605,997	June 21	1771	406	83	1725
Casavello, Joseph, Cumberland, Canada. Fire-alarm	614,365	Nov. 15	2028	468	85	1046
Cascaden, Thomas, Jr., assignor to Davis Gasoline Engine Works Company, Waterloo, Iowa. Grinding-mill	604,853	May 31	2969	681	83	1259
Case, Alfred W., Highland Park, Conn. Machine for making paper-board	598,241	Feb. 1	295	67	82	658
Case, Charles P., Albany, N. Y. Fastening for artificial limbs	616,076	Dec. 20	1563	365	85	1747
Case, Charles R., Allen's Hill, N. Y. Sliding-door fixture	602,727	Apr. 19	1970	447	83	404
Case, Charles R., Allen's Hill, N. Y. Sliding-door latch	602,728	Apr. 19	1972	448	83	404
Case, Charles R., Allen's Hill, N. Y. Sliding-door fixture	602,729	Apr. 19	1973	448	83	404
Case, Cromwell O., Hartford, assignor to P. & F. Corbin, New Britain, Conn. Extension-bolt	598,194	Feb. 1	215	50	82	643
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Lever connection for door checks and closers	599,415	Feb. 22	2332	551	82	1102
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Transom-center	606,643	July 5	13	3	84	5
Case, Edward, Dymchurch, England. Shore-groin	598,076	Feb. 1	13	3, 4	82	605
Case, Edward N., Chicago, Ill. Alarm-lock	611,212	Sept. 20	1921	444	84	1845
Case, Edward N., Chicago, Ill. Alarm-lock	611,992	Oct. 4	693	168 169	85	136
Case, Edward N., assignor of one-half to S. M. Fischer, Chicago, Ill. Alarm-padlock	607,831	July 26	2409	512	84	521
Case, Frank B., assignor to E. C. Stearns & Co., Syracuse, N. Y. Bicycle fork-head	604,724	May 31	2766	632	83	1221
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company, of New York. Trolley	608,281	Aug. 2	190	46	84	692
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company, of New York. Controller for electric motors	610,895	Sept. 20	1360	311	84	1739
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company, of New York. Connector	613,663	Nov. 8	777	177	85	785
Case, Henry, and E. D. Shaw, Gloversville, N. Y. Angle attachment for dental hand-pieces	600,243	Mar. 8	1159	264	82	1461
Case, Henry, and I. C. Young, Gloversville, N. Y. Window-cleaner	608,140	July 26	2968	636	84	634
Case, Henry J., Owasco, assignor to Adriance, Platt & Company, Poughkeepsie, N. Y. Spring-tooth harrow	604,854	May 31	2972	681 682	83	1260
Case, Joel T., Bristol, Conn. Rotary engine	612,191	Oct. 11	1056	253 254	85	216
Case, John M., Cincinnati, Ohio. Scouring, disintegrating, and separating machine	601,728	Apr. 5	201	39, 40	83	40
Casement, J. S. (See Donaldson, Arthur D., assignor.)						
Casey, Augustin F., Peru, assignor to G. W. and C. A. Hall, West Peru, Me. Adjustable bracket clothes-rack	612,479	Oct. 18	1568	375	85	325
Casey, Philip, Jr., Paterson, N. J. Fire-extinguishing tank	597,812	Jan. 25	2345	547	82	505
Casey, Philip, Jr., Paterson, N. J. Emergency-brake for cars	597,813	Jan. 25	2346	548	82	506



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Casey, Philip, Jr., Paterson, N. J. Curtain ring and holder .....	610,342	Sept. 6	385	82	84	1514
Casey, James J., Holyoke, Mass. Vehicle running-gear .....	602,655	Apr. 19	1838	419	83	377
Casey, John, and M. S. Chism, Philadelphia, Pa. Spectacle or eyeglass case .....	602,825	Apr. 26	2151	488	83	453
Casey, Thomas J., Detroit, Minn. Sash-fastener .....	601,369	Mar. 29	3118	704	82	1893
Casgrain, Louis A., Winchester, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Work-support for nailing-machines .....	606,045	June 21	1866	430	83	1741
Casgrain, Louis A., Winchester, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Jack for slugging and nailing heels .....	609,874	Aug. 30	3147	735	84	1327
Casgrain, Louis A., Winchester, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Machine for uniting welts or rands to soles or heels .....	611,405	Sept. 27	2328	537	84	1941
Casgrain, Louis A., Winchester, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Machine for inserting metallic fastenings .....	611,990	Oct. 4	687	168	85	134
Casgrain, Louis A., Winchester, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Shoe-holding jack for shoe-nailing machines .....	611,991	Oct. 4	690	168	85	135
Cash, Joseph, <i>et al.</i> (See Steward, George R., assignor.) .....						
Cashin, James J., and D. M. Shaffer, Elizabethtown, Pa. Dumping-car .....	596,478	Jan. 4	21	5	82	7
Cashmore, William, Birmingham, England. Breech-loading firearm .....	604,488	May 24	2342	531	83	1121
Casket Lowering Company. (See Lester and Smart, assignors.) .....						
Casler, Alonzo A., Little Falls, N. Y. Washing-machine .....	608,251	Aug. 2	144	36	84	683
Casler, Alonzo A., Binghamton, N. Y. Washing-machine .....	608,400	Aug. 2	419	91	84	739
Casler, Herman, Canastota, N. Y. Consecutive-view apparatus .....	597,759	Jan. 25	2243	522	82	486
Casler, Herman, Canastota, N. Y. Reciprocating electric drill .....	608,175	Aug. 2	12	3	84	657
Casler, Herman, Canastota, assignor to American Mutoscope Company, New York, N. Y. Web-feeding machine .....	611,590	Sept. 27	2673	617	84	2006
Casler, Herman, Canastota, assignor to American Mutoscope Company, New York, N. Y. Consecutive-view apparatus .....	611,591	Sept. 27	2678	618	84	2006
Casler, Herman, Canastota, assignor to American Mutoscope Company, New York, N. Y. Consecutive-view apparatus .....	614,366	Nov. 15	2029	468	85	1046
Casler, Herman, Canastota, assignor to American Mutoscope Company, New York, N. Y. Mutoscope .....	614,367	Nov. 15	2031	469	85	1046
Casolin, Peter, New York, N. Y. Musical instrument .....	602,695	Apr. 19	1919	437	83	393
Cason, William H., Renaker, Ky. Broom-clasp .....	608,510	Aug. 2	603	135	84	775
Cass, John H. (See Spooner and Cass.) .....						
Cassady, John. (See McCaffery, William, assignor.) .....						
Cassanova, Edgar, New Orleans, La. Brushing or combing machine .....	604,725	May 31	2767	633	83	1221
Cassel, Harry E., Philadelphia, Pa. Staircase for dwellings .....	606,273	June 28	2310	535	83	1848
Casselberry, William H., Williamsport, Pa. Window-screen .....	602,553	Apr. 19	1661	377	83	345
Cassella & Co., Leopold. (See Jacobson and Tigges, assignors.) .....						
Cassella & Co., Leopold. (See Kalischer, George, assignor.) .....						
Cassella & Co., Leopold. (See Weinberg, Arthur, assignor.) .....						
Cassidy, Patrick J., Columbus, Ohio. Gas-stove .....	597,392	Jan. 18	1620	377	82	349
Cassil, Philip W., Garner, Iowa. Screw .....	603,891	May 10	1185	268	83	846
Cassino, John T., Peabody, Mass. Spoon-holder .....	596,982	Jan. 11	924	218	82	196
Castelberg, Henry. (See Schild, Edward H., assignor.) .....						
Castelberg National Jewelry Company. (See Bemis, Harry E., assignor.) .....						
Caster, Charles V., Siloam Springs, Ark. Box-fastener .....	611,445	Sept. 27	2399	550	84	1953
Castle, Elmer E. (See Bassett and Castle.) .....						
Castle, Goswin, Rome, N. Y. Cloth-cutting machine .....	596,738	Jan. 4	503	115	82	98
Castle, Lewis D., Greensburg, Pa. Conveying apparatus .....	597,837	Jan. 25	2388	556	82	514
Castle, Lewis D., Greensburg, Pa. Conveying apparatus .....	597,838	Jan. 25	2390	556	82	515
Castle, Lewis D., Greensburg, Pa., assignor to J. T. Kelly, New York, N. Y., and G. M. Jones, Pittsburg, Pa. Machine for grinding valves .....	616,053	Dec. 13	1520	355	85	1722
Castle, William H., Weedsport, N. Y., assignor of one-half to Geneva Cycle Company, Geneva, Ohio. Bicycle .....	601,613	Mar. 29	3517	802	82	1972
Castle, William H., Weedsport, N. Y., assignor of one-half to Geneva Cycle Company, Geneva, Ohio. Bicycle .....	604,187	May 17	1768	398	83	994
Castleberry, B. H. (See Hazel, Peter H., assignor.) .....						
Castner, George L., Brownsville, Tenn. Apparatus for playing duplicate games of cards .....	606,121	June 21	2007	460	83	1770
Castoe, Martin A., Bellaire, Ohio. Boiler-furnace .....	613,968	Nov. 8	1307	297	85	886
Castor, Charles, Princeton, Ky. Combined spirit-level and grading instrument .....	601,629	Apr. 5	9	2	83	4
Caswell, Daniel W., Chicago, Ill. Bicycle .....	601,122	Mar. 22	2655	606	82	1778
Caswell, Daniel W., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Bicycle .....	603,497	May 3	470	104	83	691
Caswell, Thomas, Cherokee, Iowa. Combined hay-rake and baling-press .....	607,216	July 12	1085	234	84	225
Caswell, Tracy B., Denver, Colo. Mechanism for operating type-setting or other machines .....	596,739	Jan. 4	505	116	82	98
Catanzano, Salvatore, and N. Taccone, Birmingham, Ala. Fire-escape .....	603,440	May 3	343	76	83	665
Cather, Leonard R., Chicago, Ill. Hand-truck .....	609,985	Aug. 30	3363	781	84	1369
Catherall, Thomas H., London, England. Linotype-machine .....	610,228	Sept. 6	161	36	84	1473
Cathriner, Joseph, Brenham, Tex. Flue-cleaner .....	615,249	Dec. 6	41	9	85	1420
Catlett, Robert H., Trinidad, Colo. Release-rod for air-brakes .....	597,814	Jan. 25	2347	548	82	506
Catlett, Robert H., Trinidad, Colo. Combination step and platform gate .....	611,196	Sept. 20	1890	437	84	1840
Catlin, William E., Glen Ellyn, Ill. Necktie-fastener .....	606,122	June 21	2011	460	83	1770
Catt, Mark A., <i>et al.</i> (See Reece, Eli B., assignor.) .....						
Cattell, Charles F., Darby, Pa. Gas-burner .....	616,453	Dec. 27	2307	538	85	1916
Catterall, John, New Bedford, Mass. Loom-fork .....	602,893	Apr. 26	2249	512	83	472
Cattori, Michelangelo, Rome, Italy. System of electric traction .....	616,403	Dec. 20	2209	516	85	1876
Caude, Achille, Carbes, France. Machine for vending lighted cigars or cigarettes .....	605,853	June 21	1497	342	85	1674
Caudenberg, Alfred C. de. (See Lacroix and Caudenberg.) .....						
Cauldwell, Harry E. (See Rogers, Henry R., assignor.) .....						
Cavanagh, Mary L., assignor of one-half to J. T. Boyle, Chicago, Ill. Bicycle-handle .....	610,471	Sept. 6	618	138	84	1557
Cavanagh, James. (See Holland, Frank, assignor.) .....						
Cavanaugh, Martin, and C. H. Hess, Zanesville, Ohio. Jar and fastener therefor .....	613,493	Nov. 1	511	116	85	713
Cave, Edward S., assignor of one-half to S. P. Burton, Jr., Reading, Mass. Milk-pail .....	607,393	July 12	1416	303	84	291
Cave, George J., Elizabeth, N. J. Fastener for barrels, crates, &c. .....	602,826	Apr. 26	2152	488	83	453
Cave, Newton F., Kearney, Mo. Combined weather-strip and door-check .....	611,676	Oct. 4	147	36	85	32
Caviechi, Hercules, Plattsburg, N. Y. Propelling means for bicycles or similar vehicles .....	605,392	June 7	640	143	83	1474
Caylor, Worth E., Chicago, Ill. Nut-lock .....	599,385	Feb. 22	2279	538	82	1091
Cazin, Francis M. F., Hoboken, N. J. Penstock and supply-pipe .....	608,176	Aug. 2	13	4	84	657
Cease, Hendrick B., Lincoln, Ill. Grain-drill .....	612,602	Oct. 18	1777	419	85	364



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Celluloid Company. (See Harrison and Thurber, assignors.)						
Celluloid Company. (See Miller, Horace E., assignor.)						
Celluloid Company. (See Stevens, John H., assignor.)						
Celluloid Company. (See Stevens and Axtell, assignors.)						
Celluloid Company. (See Stevens and Lefferts, assignors.)						
Celluloid Company. (See Wood and Stevens, assignors.)						
Celluloid Goggle Company. (See Sheldon, Charles R., assignor.)						
Certain, Jerry M., Port Tampa, Fla. Railway nut-wrench	613,969	Nov. 8	1308	298	85	887
Certain, John G., <i>et al.</i> (See Barnhill, Alva H., assignor.)						
Chabot, Ephraim, Providence, R. I. Jointed rule	597,261	Jan. 11	1388	324	82	285
Chace, John B., Orange, Mass. Woodworking machinery	603,037	Apr. 26	2502	567	83	519
Chadbourn, Edward J., Wakefield, Mass. Stop-cock box	613,652	Nov. 1	760	174	85	761
Chadderton, William H., New York, N. Y. Ink-bottle	614,289	Nov. 15	1882	435	85	1018
Chadwick, Frank W., Quincy, Ill. Vehicle-brake	610,523	Sept. 13	714	162	84	1592
Chadwick, Frank W., Quincy, Ill. Bicycle-brake	612,893	Oct. 25	2340	557	85	490
Chadwick, George W., Chester, Pa. Heart-motion for spinning-machines	602,303	Apr. 12	1242	273	83	250
Chadwick, Rufus S., and F. Clarke, San Francisco, Cal. Oven-door	611,770	Oct. 4	305	73	85	63
Chagnaud, Auguste. (See Dalla-Décimas, Kécheur, and Chagnaud.)						
Chaffin, Edward L., Helena, Ark. Artificial denture	601,703	Apr. 5	136	27	83	29
Chalfant, Jefferson D., Wilmington, Del., assignor of seven-sixteenths to H. W. Sullivan, New York, N. Y. Machine for justifying type	614,319	Nov. 15	1935	446 447 448 449 450	85	1028
Chalfant Novelty Company. (See Williams, Thomas F., assignor.)						
Chalker, Vernon A. (See Baker, Chalker, Baker, and Ferguson.)						
Challoner, Frank, Oshkosh, Wis. Cut-off machine	603,498	May 3	471	105	83	691
Chalmers, George W., Footscray, Victoria. Incandescent gas-burner	612,797	Oct. 18	2144	509	85	435
Chalmers, James, Jr., Pittsburg, assignor to Union Switch and Signal Company, Swissvale, Pa. Switch and signal mechanism	606,801	July 5	310	65	84	61
Chalmot, Guillaume de, Holcomb's Rock, Va. Obtaining free amorphous silicon	602,632	Apr. 19	1803		83	371
Chalmot, Guillaume de, Leaksville, N. C., assignor, by mesne assignments, to Willson Aluminum Company, New York, N. Y. Silicid of iron	602,975	Apr. 26	2406		83	502
Chalmot, Guillaume de, Holcomb's Rock, Va., assignor, by mesne assignments, to Willson Aluminum Company, New York, N. Y. Producing silicids of iron	602,976	Apr. 26	2407		83	502
Chaloner, Burt, and E. E. Lichtenberger, Anaconda, Colo. Flour-gold saver	604,653	May 24	2620	599	83	1174
Chamberland, Charles E., Paris, France. Filter	602,304	Apr. 12	1243	273	83	250
Chamberlain, Blanchard, Bellefontaine, Ohio. Mail-pouch-delivery device. (Reissue)	11,649	Feb. 8	1388	334	82	884
Chamberlain, Frederick H., and G. B. Coleman, Washington, D. C. Underground electric-railway system	616,824	Dec. 27	2988	696	85	2048
Chamberlain, Rufus N., and A. S. Hubbard, Belleville, N. J. Electric-lighting system for vehicles	613,918	Nov. 8	1226	279 280	85	870
Chamberlin, George A. (See Seaver and Chamberlin.)						
Chamberlin, Harry G., Chicago, Ill. Pneumatic check	612,156	Oct. 11	1008	243	85	207
Chamberlin, Spencer C., New Bedford, Mass. Shirt	607,734	July 19	2200	465	84	463
Chambers, Arthur M., Thorncliffe, England. Medicinal vaporizer	611,560	Sept. 27	2614	602	84	1995
Chambers Brothers Company. (See Chambers, Cyrus, Jr., and J. H., assignors.)						
Chambers Brothers Company. (See King, Howard K., assignor.)						
Chambers, Cyrus, Jr., Overbrook, and J. H. Chambers, assignors to Chambers Brothers Company, Philadelphia, Pa. Machine for finishing surfaces of bricks	612,232	Oct. 11	1126	270	85	230
Chambers, Edward J., Woodstock, Canada. Metallic tire for wheels	610,622	Sept. 13	882	202	84	1626
Chambers, Garrett S., Des Moines, Iowa. Air and gas mixer	614,836	Nov. 29	2875	661	85	1233
Chambers, George J., and A. Basden, London, England. Earthenware or glass bottle or jar or other vessel or reservoir for containing and delivering liquids	599,095	Feb. 15	1741	412	82	969
Chambers, James H. (See Chambers, Cyrus, Jr., and J. H.)						
Chambers, John W., assignor of one-half to G. W. Dexheimer, Fort Atkinson, Wis. Vehicle-bearing	612,603	Oct. 18	1779	420	85	364
Chambers, Lansford, Bartlett, Iowa. Combined dirt roller and pulverizer	605,160	June 7	187	47	83	1386
Chambers, Silas, Sterling City, Tex. Nut-lock	615,139	Nov. 29	3467	795	85	1348
Chambliss, John A., East Orange, N. J. Postage-stamp detacher and affixer	598,263	Feb. 1	339	78	82	666
Chambliss, Lee R., assignor of one-half to C. B. Black, Langston, Okla. Ter. Vehicle-wheel	604,726	May 31	2769	633	83	1221
Champ, Joseph H., assignor to Bishop & Babcock Company, Cleveland, Ohio. Regulating-valve device	610,938	Sept. 20	1424	327	84	1751
Champ, Joseph H., assignor to Bishop & Babcock Company, Cleveland, Ohio. Fluid-pressure regulator	611,892	Oct. 4	519	126	85	103
Champenois, Charles C., Newark, N. J. Button or stud	605,998	June 21	1773	406	83	1725
Champion, Josiah, Enterprise, Cal. Ore-stamp battery	610,599	Sept. 13	851	195	84	1620
Champlin, Fred H., Long Meadow, Mass. Egg crate or box	607,423	July 19	1484	315	84	320
Chance, Frank S., Indianapolis, Ind. Picture-displaying device. (Reissue)	11,650	Feb. 15	2124	505	82	1038
Chance, Ransom M., Hook's Switch, Tex. Car-coupling	598,768	Feb. 8	1196	288	82	847
Chancey, Christopher C., Kinsey, Ala. Seed-dropper	616,768	Dec. 27	2895	671	85	2029
Chancey, Frederick F., assignor of one-half to F. B. Bartlett, Milford, N. H. Nail-puller	611,103	Sept. 20	1731	397	84	1810
Chandler, Daniel L. (See Burns and Chandler.)						
Chandler, Daniel L., Ayer, assignor to Spaulding Brothers Company, Townsend Harbor, Mass. Counter-cutting machine	606,375	June 28	2501	581 582	83	1884
Chandler, Frank E., Brandon, Vt. Hinge-conductor for electric currents	612,192	Oct. 11	1060	254	85	217
Chandler, James H., Boston, Mass. Invalid-table	601,945	Apr. 5	639	133	83	120
Chandler, John A. (See Rich, Chandler, and Dunshee.)						
Chandler, John A., assignor to Standard Filter Company, Kansas City, Mo. Filter	609,754	Aug. 23	2938	687	84	1271
Chandler, Louis A. (See Engman, Charles F., assignor.)						
Chandler & Price Company. (See Burnham, Frank A., assignor.)						
Chandler, S. B., <i>et al.</i> (See Morris, Thomas E., assignor.)						
Chaney, James, Lebanon, Mo. Gate	616,404	Dec. 20	2212	516	85	1877
Changeable Illuminating Indicator Company. (See Tallman, George W., assignor.)						
Chaninell, William J. (See Watson, Henry F., assignor.)						
Chapel, Adanirom J., Arkansas City, Kans. Car-coupling device	600,192	Mar. 8	1082	244	82	1445
Chapell, Elisha S., Boston, Mass. Top	596,479	Jan. 4	22	6	82	7
Chapin, Andrew P., Springfield, assignor of one-half to F. E. Lay, Westfield, Mass. Automatic feed-reservoir	609,755	Aug. 23	2940	687	84	1273
Chapin, Charles E. (See Dickey, Joseph W., assignor.)						
Chapin, William C. (See Dunlap and Quain, assignors.)						
Chaplen, James P., and T. M. Mills, New Martinsville, W. Va. Bottle	600,064	Mar. 1	801	183	82	1371
Chaplin, Henry C., Charlottesville, Va. Door or transom stop	597,895	Jan. 25	2477	578	82	531



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Chaplin, Robert. (See Wilkinson and Chaplin.)						
Chapman, Charles A., assignor to A. Warren and C. Fippard, Horley, England. Spring-seat	610,960	Sept. 20	1467	335	84	1759
Chapman, Charles A. and W. H., London, England. Elastic tire and rim for vehicle-wheels	600,572	Mar. 15	1750	399	82	1591
Chapman, Frank C., Los Angeles, Cal. Prune-dipper	597,633	Jan. 18	2023	472	82	428
Chapman, George T., Stroud, England. Cycle-stand	614,086	Nov. 15	1508	345	85	948
Chapman, Henry, Philadelphia, Pa. Centrifugal filter	610,983	Sept. 20	1518	348 349	84	1768
Chapman, Joseph L., Haddonfield, N. J., assignor to W. H. Mattson, Philadelphia, Pa. Folding stool	615,476	Dec. 6	488	113	85	1506
Chapman, Leo M., and J. M. Gelatt, Louisville, Ky. Nut-lock	607,585	July 19	1949	405	84	415
Chapman, William, and P. W. Davies, Pittsburg, Pa. Electric-railway construction	611,056	Sept. 20	1638	375	84	1792
Chapman, William A., Cleburne, Tex. Liquid for exterminating grass or similar growths	606,644	July 5	14		84	5
Chapman, William H. (See Chapman, Charles A. and W. H.)						
Chapman, William H., assignor to Belknap Motor Company, Portland, Me. Electric regulator for dynamos	599,892	Mar. 1	414	92	82	1292
Chapman, William H., assignor to Belknap Motor Company, Portland, Me. Electric regulator	613,853	Nov. 8	1119	255	85	850
Chapman, Winthrop M., Needham, Mass. Repeater	615,014	Nov. 29	3229	742 743	85	1303
Chappell, Ezra P., Mobile, Ala. Blind-fastener	599,222	Feb. 15	1952	463	82	1006
Chappell, George C., Jacksonville, Fla. Safety bottle-crate	613,441	Nov. 1	417	95	85	695
Chappius, Edward H., Marysville, Cal. Cycle-handle-bar fastening attachment	604,876	May 31	3014	692	83	1268
Charbonneau, Denis J., Williamstown, Ky. Lathing-machine	614,443	Nov. 22	2181	500	85	1088
Charles, Henry L., Butte, Mont. Reverberatory furnace	599,597	Feb. 22	2685	627	82	1169
Charles, Henry L., Butte, Mont. Reverberatory smelting-furnace	608,837	Aug. 9	1227	286	84	911
Charles, Lorin E. (See Paige, James H., assignor.)						
Charles Scott Spring Company. (See Scott, Charles, assignor.)						
Charlier, Andrew C. J., Glasgow, Scotland. Manufacturing lead sulfite	608,028	July 26	2801	596	84	598
Charlier, Henri, assignor to Ajax Metal Company, Philadelphia, Pa. Smelting-furnace	615,429	Dec. 6	399	95	85	1490
Charlton, Charles H., Jr., and J. F., New Orleans, La. Nut-lock	605,078	June 7	17	6	83	1356
Charlton, Demetrius F., and F. J. Jennison, Marquette, Mich. Press for forming bank-bills into packages	597,236	Jan. 11	1347	315	82	277
Charlton, John F. (See Charlton, Charles H., Jr., and J. F.)						
Charnock, John A., Cleveland, Ohio, assignor, by mesne assignments, to Shelby Steel Tube Company, Pittsburg, Pa. Tube-making machine	603,811	May 10	1030	229	83	818
Charroin, Frank B., Fairhaven Wash. Camp-stove	605,999	June 21	1774	407	83	1726
Chas. H. Childs & Company. (See Camp, George E., assignor.)						
Chase, Arthur W., Fortress Monroe, Va. Protractor	601,630	Apr. 5	10	3	83	4
Chase & Co., L. C. (See Reynolds, James F., assignor.)						
Chase, Cornwell P., Minneapolis, Minn. Permutation-lock	599,765	Mar. 1	161	39	82	1246
Chase, De Forest W., et al. (See Taylor, Allan, assignor.)						
Chase, Frank, Malden, Mass., assignor to W. Shaw, trustee. Sewing-machine	605,040	May 31	3283	754	83	1321
Chase, Frank B., and E. P. Redfield, New York, N. Y. Duplicate-whist apparatus	614,837	Nov. 29	2877	661	85	1233
Chase, Frank L., Louisville, Ky. Box	614,698	Nov. 22	2640	601	85	1172
Chase, Frederick S., Waterbury, Conn. Basin-plug thimble	605,813	June 14	1385	318	83	1635
Chase, George N., et al. (See Sill, Richard V., assignor.)						
Chase, Harvey S., assignor, by mesne assignments, to American Electric Heating Corporation, Boston, Mass. Electrical resistance	607,540	July 19	1865	387 388	84	400
Chase, Henry A., Boston, Mass. Electric-railway system	605,814	June 14	1386	318 319	83	1635
Chase, Herbert E. (See Perry and Mitchell, assignors.)						
Chase, Jacob J., Newburyport, Mass. Magazine-camera	604,204	May 17	1798	405	83	1000
Chase, Jesse, Omro, Wis. Pneumatic-tire cover	606,705	July 5	126	28	84	27
Chase, John, assignor to C. H. Mersereau, Paterson, N. J. Blind-fastener	601,552	Mar. 29	3425	777	82	1955
Chase, Joseph H., Meriden, Conn. Self-playing organ	608,252	Aug. 2	145	36	84	683
Chase, Milton. (See Grant, James W., assignor.)						
Chase, Milton, et al. (See Taylor, Allan, assignor.)						
Chase, Milton, and M. H. Foster, Haverhill, Mass., assignors to Rotary Counter Machine Company, Saco, Me. Skiving-machine	600,768	Mar. 15	2075	476	82	1654
Chase, Newton D., Pokegama, assignor of one-half to W. and A. Hilt, Hambrook, Cal. Awl	601,123	Mar. 22	2657	607	82	1778
Chasseigne, Louis F. (See Debize and Chasseigne.)						
Chatburn, Carey, and J. Ashcroft, Whalley, assignors to T. O. Arnfield, New Mills, England. Apparatus for washing printers' blankets	614,087	Nov. 15	1509	345	85	949
Chateau, Joseph D. C., Paris, France. Automatic regulator for electric currents	600,356	Mar. 8	1346	308	82	1496
Chateau, Joseph D. C., Paris, France. Valve-controlling device for gas-burners	602,696	Apr. 19	1921	437	83	394
Chater, William, assignor of two-thirds to D. Downie and J. E. Clarke, Denver, Colo. Automatic means for opening, closing, and locking elevator-doors	613,224	Oct. 25	2884	680	85	599
Chatfield, Robert E., Sewardstone, England. Utilizing acid sulfates of soda	605,697	June 14	1173		83	1596
Chattaway, George. (See Brecknell, William, assignor.)						
Chatterton, Chester Y., Springfield, Ill. Threshing-machine	596,573	Jan. 4	199	44, 45	82	39
Chatwood, Samuel, London, and S. R. Chatwood, Bolton, England. Steam-engine	602,426	Apr. 19	1448	328	83	305
Chatwood, Samuel, London, and S. R. Chatwood, Bolton, England. Steam-superheater	609,499	Aug. 23	2493	582 583	84	1187
Chatwood, Samuel R. (See Chatwood, Samuel and S. R.)						
Chaudun, Henri, Paris, France. Rotary motor	597,709	Jan. 25	2160	505	82	470
Cheape, John A., Charlottesville, Va. Actinometer	610,028	Aug. 30	3432	795	84	1382
Cheatham, Robert V., Louisville, Ky. Automatic electrically-controlled railway switch	612,702	Oct. 18	1966	467	85	400
Cheeks, Norman W. (See Durbin and Crum, assignors.)						
Cheeseman, William E., Freehold, N. J. Transplanter	602,894	Apr. 26	2249	512 513	83	472
Cheesman, Frank E., et al. (See Coplantz, Cyrus, assignor.)						
Cheetham, Frank A., Rastrick, and R. Bostock, Brighouse, England. Apparatus for signaling on locomotives	609,732	Aug. 23	2902	679	84	1265
Cheevers, Matthew F., Holyoke, Mass. Mail-box	608,420	Aug. 2	458	102	84	747
Chemische Fabrik, vormals Sandoz. (See Böniger, Melchior, assignor.)						
Chemische Fabrik, vormals Sandoz. (See Steiner, Arnold, assignor.)						
Chemische Fabrik auf Actien, vormals E. Schering. (See Herzheim, Alfred, assignor.)						
Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung. (See Seifert, Bruno R., assignor.)						
Cheney, Daniel A., Central Park, Mont. Wrench	611,771	Oct. 4	307	73	85	63
Cheney, George K., New York, N. Y. Coin-operated device	609,791	Aug. 30	3005	704	84	1298
Chenoweth, John H., Paris, Ill. Gate	610,121	Aug. 30	3577	823	84	1413



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Cherry, Andrew W., <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Cherry, Edward E. (See Laurent and Cherry.)						
Cherwinsky, Max. (See Lesnick, Samuel, assignor.)						
Chesney, Cummings C. (See Kelly, John F., assignor.)						
Chesney, Cummings C., assignor to J. F. Kelly, Pittsfield, Mass. Lightning-arrester	612,015	Oct. 11	757	187	85	159
Chesney Manufacturing Company. (See Chesney, Oliver M., assignor.)						
Chesney, Oliver M., Topeka, Kans., assignor to Chesney Manufacturing Company, of Colorado. Corset	598,361	Feb. 1	504	121	82	697
Chesnut, Granville R., Spirit Lake, Iowa. Washing-machine	612,399	Oct. 18	1423	344	85	298
Chesterman, Wirt A., Richmond, Va. Portable swing	604,966	May 31	3154	725 726	83	1296
Chew, Edgar H. B., Philadelphia, Pa. Station-indicator	606,331	June 28	2424	561	83	1870
Chew, James S., What Cheer, Iowa. Coal-chute	609,658	Aug. 23	2792	651	84	1243
Chicago Automatic Company. (See Westlake, Charles E., assignor.)						
Chicago Brass Company. (See Kellerman, Charles H., assignor.)						
Chicago Novelty Manufacturing Company. (See Franklin, Edward A., assignor.)						
Chicago Railway Equipment Company. (See Ball, Herman F., assignor.)						
Chicago Railway Equipment Company. (See Burgess, Luther C., assignor.)						
Chicago Railway Equipment Company. (See Huntoon, Charles F., assignor.)						
Chicago Railway Equipment Company. (See Robischung, Henry B., assignor.)						
Chicago Sewing Machine Company. (See Tripp, James, assignor.)						
Chicago Time Register Company. (See Deubner, John W., assignor.)						
Chick, George H., Oakland, assignor of one-half to G. Zander, Alameda, Cal. Gold-washing apparatus	613,494	Nov. 1	512	116	85	713
Chickering, Frank W., Cabot, Vt. Lifting-jack	602,056	Apr. 12	807	174	83	164
Chickering, Frank W., Cabot, Vt. Whiffletree-coupling	603,257	May 3	24	6	83	605
Chickering, Kenton, Oil City, Pa. Sucker-rod joint	607,614	July 19	2003	415	84	425
Chickering, Kenton, Oil City, Pa. Fly-wheel	607,615	July 19	2004	415	84	425
Chickering, Kenton, Oil City, Pa. Mechanical movement	607,616	July 19	2005	415 416	84	425
Chickering & Sons. (See Bowen, Robert S., assignor.)						
Childsey, Charles A., Philadelphia, Pa. Cuff	604,877	May 31	3016	692	83	1269
Child, Ada M. (See Jackson, Benjamin F., assignor.)						
Child, Linus M., <i>et al.</i> (See Guest, John H., assignor.)						
Childers, Frank, Wolf Creek, Ill. Fence	605,393	June 7	641	143	83	1475
Childers, James, <i>et al.</i> (See Amanns, Abraham, assignor.)						
Childs, Eugene, Boston, Mass., assignor to Trimont Manufacturing Company, Portland, Me. Rotary cutter for leather-work	604,002	May 10	1413	316	83	895
Childs, Eugene, Boston, Mass., assignor to Trimont Manufacturing Company, Portland, Me. Chuck	612,378	Oct. 11	1391	337	85	279
Childs, Eugene, Boston, Mass., assignor to Trimont Manufacturing Company, Portland, Me. Rotary cutter for leather-work	613,618	Nov. 1	709	165	85	752
Childs, Eugene, assignor to E. O. Ely, Boston, Mass. Antifriction hub or wheel bearing	604,003	May 10	1414	316	83	896
Chillingworth, Rudolf, Nuremberg, Germany, assignor to Standard Weldless Tube and Cycle Components, Limited, London, England. Means for forming branches upon wrought-metal tubes	596,770	Jan. 4	560	129	82	107
Chillingworth, Rudolf, Nuremberg, Germany, assignor to Standard Weldless Tube and Cycle Components, Limited, London, England. Means for manufacturing wheel-hubs	606,046	June 21	1868	430	83	1742
Chingar, Frank, Ely, Minn. Saw-handle	600,906	Mar. 22	2304	525	82	1710
Chingar, Frank, Tower, Minn. Sawing-machine	604,727	May 31	2769	634	83	1221
Chisholm, James, Hyde Park, Mass. Coat	599,139	Feb. 15	1823	432	82	983
Chisholm, John A. (See Scott and Chisholm.)						
Chism, Murray S. (See Casey and Chism.)						
Chitwood, Aaron B., Little Rock, Ark. Wagon-brake	607,341	July 12	1325	283	84	274
Chivert, Daniel H., Neuilly-sur-Seine, France. Acetylene-gas apparatus	604,967	May 31	3155	726	83	1297
Choate, Charles N., Greenville, assignor to American Harrow Company, Detroit, Mich. Seed-bag holder	606,274	June 28	2311	535	83	1848
Choquette, Joseph, assignor of two-thirds to M. Boas, St. Hyacinthe, Canada, and W. A. Torrance, Harrison, N. J. Fiber-treating machine	607,832	July 26	2413	512	84	522
Christman, Clarence C., St. Louis, Mo. Bicycle	613,244	Nov. 1	34	8	85	623
Christensen, Anthon, assignor, by mesne assignments, to Anthon Christensen Belting Company, Chicago, Ill. Endless belt	606,376	June 28	2506	582	83	1885
Christensen, Niels A., Milwaukee, Wis. Governor-valve for air-compressors	598,283	Feb. 1	382	89	82	674
Christensen, Niels A., Milwaukee, Wis. Means for suspending air-pumps	607,217	July 12	1091	235	84	227
Christensen, Niels A., Chicago, Ill. Air-brake pump	612,963	Oct. 25	2445	582	85	513
Christensen, Ole, and J. M. Jorgensen, Park City, Utah. Combined comb and shears	598,593	Feb. 8	901	216	82	792
Christensen, Peter W., St. Louis, Mo. Hanger for frames, signs, &c	601,553	Mar. 29	3426	778	82	1955
Christensen, Valdemar, New York, N. Y. Cabinet-bath	604,300	May 17	1971	442	83	1032
Christenson, Hans, Crystal Falls, Mich. Keyhole-guard	597,634	Jan. 18	2025	473	82	429
Christenson, Hans, Crystal Falls, Mich. Railway-switch	609,659	Aug. 23	2793	651	84	1244
Christiansen, Isaac. (See Fenner, Algar T., assignor.)						
Christian, Crawford, Orland, Cal. Pressure-regulator for beer	616,604	Dec. 27	2582	599	85	1967
Christian, Fred. (See Slaughter and Christian.)						
Christian, William G. (See Snyder and Christian.)						
Christian, William I. (See Mundhenk and Christian.)						
Christiansen, Alfred, <i>et al.</i> (See Arnold, Harry I., assignor.)						
Christiansen, Axel M., Chicago, Ill. Curtain-pole	603,053	Apr. 26	2526	574	83	524
Christiansen, John, assignor to Pratt & Whitney Company, Hartford, Conn. Automatic weighing-machine	607,483	July 19	1764	367 368	84	381
Christiansen, John, assignor to Pratt & Whitney Company, Hartford, Conn. Weighing-machine	616,852	Dec. 27	3045	708	85	2060
Christiansen, John, assignor to Pratt & Whitney Company, Hartford, Conn. Automatic weighing-machine	616,853	Dec. 27	3050	709 710	85	2061
Christiansen, Ludwig, Seaside, Oreg. Tumbler, jug, or similar article	608,649	Aug. 9	866	199	84	845
Christianson, Andrew, Great Falls, Mont. Combined window-jack and bundle-carrier	612,128	Oct. 11	954	231	85	196
Christiansus, Hugo, New York, N. Y. Hanger for coats, hats, &c	614,933	Nov. 29	3073	706	85	1272
Christie, Elza J., Marion, Iowa. Unicycle	596,480	Jan. 4	23	6	82	7
Christie, John, Irvine, Pa. Draft-rigging for car-couplings	609,410	Aug. 23	2318	547	84	1154
Christie, Louis C., San Francisco, Cal. Testing apparatus	603,874	May 10	1152	259	83	840
Christl, Joseph V., assignor to Alling & Co., Newark, N. J. Combined picture-frame and match safe or receptacle	606,621	June 28	2945	682	83	1972
Christman, Edward. (See Brennan and Christman.)						
Christman, Edward, assignor to Brennan & Co. Southwestern Agricultural Works, Louisville, Ky. Seeding-machine	607,914	July 26	2577	546	84	552
Christman, Edward, T. Brennan, Jr., and L. W. Homire, assignors to Brennan & Co. Southwestern Agricultural Works, Louisville, Ky. Seeding-machine	602,827	Apr. 26	2154	489	83	454



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Christman, John, Craver, Ohio. Tobacco-huller.....	600,303	Mar. 8	1262	288	82	1480
Christopherson, Arne, Canton, S. D. Disk-sharpener.....	603,172	Apr. 26	2733	622	83	565
Christy, Henry A., Jackson, Mich. Bicycle-saddle.....	605,051	May 31	3303	758	83	1324
Christy, William J., Philadelphia, Pa. Adjustable handle-bar.....	613,970	Nov. 8	1309	298	85	887
Crittton, James M. (See Goodner and Crittton.)						
Chubbuck, Sk L., assignor to W. B. Crouse, Utica, N. Y. Harness-adjuster.....	600,573	Mar. 15	1751	399	82	1592
Church, Andrew and C. A., Adrian, Mich. Wire-fence tool.....	598,907	Feb. 15	1424	342 343	82	906
Church, Charles A. (See Church, Andrew and C. A.)						
Church, Duane H., Newton, Mass. Watch-hand.....	605,269	June 7	408	92	83	1429
Churchill, C. (See Praul, John E., assignor.)						
Churchill, Charles H., Lawtey, Fla. Cutter.....	616,825	Dec. 27	2991	697	85	2049
Churchill, Robert W., Peabody, Mass. Bicycle-tire.....	609,080	Aug. 16	1698	404	84	1016
Ciani, Dino, New York, N. Y. Means for preserving wines in casks.....	597,955	Jan. 25	2585	604	82	551
Cincinnati Coffin Company. (See Hoefle, Francis J., assignor.)						
City Street Improvement Company. (See Dennison, Walter E., assignor.)						
Clabaugh, Kate A., Martinsburg, Pa. Dust-pan.....	604,301	May 17	1972	442	83	1033
Claff, Mark B., Perry, N. Y. Folding box.....	604,228	May 17	1834	411	83	1006
Claffey, Edward, and O. P. Koplin, assignors of one-half to J. Pfeiffer, Akron, Ohio. Wheel-tire.....	612,379	Oct. 11	1392	337	85	279
Claffin, Fuller. (See Horn and Claffin.)						
Claffin, George D., Jr., Toledo, assignor to American Rail Joint and Manufacturing Company, Cleveland, Ohio. Rail-chair.....	606,515	June 28	2737	632	83	1932
Clair, Edward A., Camden, N. J. Non-refillable bottle.....	608,650	Aug. 9	867	200	84	845
Clamer, Guillian H., Philadelphia, Pa. Lead coating for metal surfaces.....	615,663	Dec. 6	825	191	85	1575
Clanton, H. C. (See Watkins, George H., assignor.)						
Clapham, George G., Roslyn, N. Y. Bicycle package-carrier.....	601,946	Apr. 5	640	134	83	120
Clapham, Thomas, Roslyn, N. Y. Spar for vessels.....	601,494	Mar. 29	3331	753	82	1934
Clapp, Frank L., Northampton, Mass., assignor to J. D. Keating, Middletown, Conn. Back-pedaling brake.....	613,619	Nov. 1	710	165	85	752
Clapp, Frank O., Scituate, Mass. Carboy-protector.....	597,760	Jan. 25	2244	522	82	486
Clapp, William N., Jersey City, N. J. Printer's type-case.....	613,919	Nov. 8	1230	280	85	871
Clare, John H. J., assignor to L. H. Clare, Hammond, Ind. Hot-air attachment for heating-stoves.....	602,814	Apr. 19	2124	479	83	432
Clare, Louis H. (See Clare, John H. J., assignor.)						
Clarenbach, Eugen, Berlin, Germany. Apparatus for making fertilizers.....	603,942	May 10	1267	288	83	862
Claret, Jean, and O. Vuilleumier, Paris, France. Automatic current-distributor for electric railways.....	604,968	May 31	3157	726 727	83	1297
Clark, Albert C. (See Hurlbut, Frank, assignor.) (Reissue.)						
Clark, Alfred C., New York, N. Y., assignor to United States Gramophone Company, Washington, D. C. Gramophone.....	597,875	Jan. 25	2447	570 571	82	525
Clark, Alfred N., Athens, Mich. Tool-sharpener.....	606,000	June 21	1776	407	83	1726
Clark, Amelia S., et al. (See Clark, Bainbridge P., assignor.)						
Clark, Arthur H. (See King, Clifford G., assignor.)						
Clark, Bainbridge P., Choteau, Mont., assignor to W. Manice and A. S. Clark, New York, N. Y. Animal-shears.....	600,513	Mar. 15	1644	375	82	1572
Clark Brake Company. (See Clark, Francis L., assignor.)						
Clark, Byron, assignor to C. H. Woodruff, Elgin, Ill., and H. L. Hall, Des Moines, Iowa. Adjustable school seat and desk.....	611,606	Oct. 4	22	5	85	7
Clark, Charles H. (See Rauscher and Clark.)						
Clark, Charles M., New York, N. Y. Automatic magnetic circuit-breaker.....	616,405	Dec. 20	2214	516	85	1877
Clark, Charles S. (See Mohun and Clark.)						
Clark, Charles S., and H. H. Baltzley, Assumption, Ill.; said Baltzley assignor to said Clark. Foot-warmer.....	607,160	July 12	987	213	84	207
Clark, Charles W., et al. (See Hall, John S., assignor.)						
Clark, Daniel J. (See Eldridge, Clark, and Blum.)						
Clark, Daniel J., et al. (See Clark, George G., assignor.)						
Clark, Daniel W., Tionesta, Pa. Thill-coupling.....	609,958	Aug. 30	3304	770	84	1358
Clark, Dwight S., assignor to Forbes Lithographic Manufacturing Company, Boston, Mass. Rotary paper-cutting machine.....	612,703	Oct. 18	1969	467 468	85	401
Clark, Dwight S., assignor to Forbes Lithographic Manufacturing Company, Boston, Mass. Rotary cutting-machine.....	612,704	Oct. 18	1973	468 469	85	402
Clark, Dwight S., assignor to Forbes Lithographic Manufacturing Company, Boston, Mass. Gripper for printing-presses, &c.....	612,705	Oct. 18	1977	469	85	402
Clark, Edmund S., Adelaide, South Australia. Handle-bar for bicycles.....	614,088	Nov. 15	1511	345	85	949
Clark, Edward H. G., Washington, D. C. Truss.....	603,126	Apr. 26	2667	605	83	552
Clark, Ernest C., Detroit, Mich. Powder-compressor.....	610,029	Aug. 30	3434	795	84	1383
Clark, Ernest C., Detroit, Mich. Pill-making machine.....	613,758	Nov. 8	962	221	85	820
Clark, Ernest P., assignor of one-half to C. S. Campbell, New York, N. Y. Electrodeposition of lead.....	598,313	Feb. 1	428	102	82	683
Clark, F. Lewis, et al. (See Poetz, John C., assignor.)						
Clark, Francis L., Stewart Station, assignor to Clark Brake Company, Pittsburg, Pa. Hydraulic brake.....	615,140	Nov. 29	2468	796	85	1348
Clark, Francis L., Stewart Station, assignor to Clark Brake Company, Pittsburg, Pa. Hydraulic brake.....	615,141	Nov. 29	3471	796 797	85	1348
Clark, Frank E., West Bend, Iowa. File-case.....	601,746	Apr. 5	243	48	83	47
Clark, Fred D., Prattsburg, N. Y. Trellis.....	605,698	June 14	1175	270	83	1596
Clark, Fred D., Prattsburg, N. Y. Trellis.....	605,778	June 14	1327	304	83	1624
Clark, George G., assignor to S. Blum, H. Eldridge, D. J. Clark, Galveston, and S. Lazarus, Sherman, Tex. Electric furnace.....	602,815	Apr. 19	2125	480	83	432
Clark, George H., Boston, Mass. Machine for cutting tread-filling strips for wheel-tires.....	601,704	Apr. 5	137	27	83	29
Clark, George H., Boston, Mass. Pneumatic wheel-tire.....	601,705	Apr. 5	139	28	83	29
Clark, George H., assignor to Morley Finishing Machine Company, Boston, Mass. Last.....	612,480	Oct. 18	1569	375	85	325
Clark, George H., assignor to Morley Finishing Machine Company, Boston, Mass. Last.....	612,481	Oct. 18	1570	376	85	326
Clark, George H., assignor to Morley Finishing Machine Company, Boston, Mass. Treeing-machine.....	612,482	Oct. 18	1572	376	85	326
Clark, George M., Higganum, Conn. Harrow.....	598,979	Feb. 15	1557	370	82	932
Clark, George N., Dry Ridge, Ky. Buckle.....	604,912	May 31	3084	708	83	1282
Clark, George P., Windsor Locks, Conn. Stock-truck.....	603,676	May 10	794	175	83	772
Clark, George V. B., Valatie, N. Y. Machine for surface-sizing wadding.....	598,608	Feb. 8	924	222	82	797
Clark, George W. (See Bahan, Walter W., assignor.)						
Clark, Henry F., et al. (See Haviland, Harry F., assignor.)						
Clark, Henry R. (See Clark, John K. and H. R.)						
Clark, Herbert M., Oshkosh, Wis. Vehicle-seat.....	598,695	Feb. 8	1083	261	82	825
Clark, Jasper. (See Northcott, Lake, and Clark.)						
Clark, James H., Chicago, Ill., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Binding attachment for sewing-machines.....	615,678	Dec. 13	849	196	85	1592



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Clark, John, Osseo, Wis. Sugar-beet spacer and buncher	612,894	Oct. 25	2342	557	85	491
Clark, John, Liberty, Ind. Twyer-iron	615,230	Nov. 29	3675	842	85	1389
Clark, John A. (See Goodline and Clark.)						
Clark, John A., Worcester, Mass. Drinking-tube	599,893	Mar. 1	420	92	82	1292
Clark, John H., assignor to Whittier Machine Company, Boston, Mass. Elevator	609,533	Aug. 23	2545	596	84	1196
Clark, John K. and H. R., assignors to M. K. and S. J. Clark, Buffalo, N. Y. Spring-hinge	610,799	Sept. 13	1192	274	84	1690
Clark, John L., assignor to S. H. Boardman, Bangor, Me. Bail and cover attachment	596,481	Jan. 4	25	7	82	8
Clark, John M., Devall's Bluff, Ark. Metallic railway-tie	605,270	June 7	409	92	83	1430
Clark, Joseph H., assignor to F. C. Austin, Chicago, Ill. Ditching-machine	606,987	July 5	607	132 133	84	120
Clark, Leander, Greenville, Ohio. Wire-stretcher	604,302	May 17	1973	442	83	1033
Clark, Loren E., Shenandoah, Pa. Bicycle-brake	615,528	Dec. 6	583	133	85	1525
Clark, Lyonel E., London, England. Floating dock	601,554	Mar. 29	3427	778	82	1955
Clark, Mary K., <i>et al.</i> (See Clark, John K. and H. R., assignors.)						
Clark, Melville, Chicago, Ill. Pneumatic organ	602,936	Apr. 26	2344	535	83	491
Clark, Melville, Chicago, Ill. Pneumatic organ	603,127	Apr. 26	2668	605 606	83	552
Clark, Melville, Chicago, Ill. Coupler for pneumatic organs	606,175	June 21	2106	484	83	1788
Clark, Melville, Chicago, Ill. Coupler for pneumatic organs	606,444	June 28	2632	605	83	1911
Clark, Melville, Chicago, Ill. Winding-up and operating mechanism for automatic playing devices for musical instruments	616,077	Dec. 20	1564	365	85	1747
Clark, Michael G., Dallas, Tex. Harness-saddle	614,838	Nov. 29	2879	662	85	1234
Clark, Mortimer J., Summitville, Colo. Combined watch-pocket and watch-guard	606,275	June 28	2311	536	83	1848
Clark, Neill A. (See Farrar and Clark.)						
Clark, Percy L., Chicago, Ill. Devulcanizing rubber	601,091	Mar. 22	2602	594	82	1767
Clark, Percy L., assignor to Morgan & Wright, Chicago, Ill. Pneumatic tire	612,016	Oct. 11	759	187 188	85	159
Clark, Percy L., assignor to Morgan & Wright, Chicago, Ill. Valve device for pneumatic tires	612,380	Oct. 11	1393	337	85	279
Clark, Peter, Philadelphia, Pa. Insulated railway-joint	599,766	Mar. 1	163	40	82	1246
Clark, Robert W., Clinton, Minn. Pipe clamp and holder	609,534	Aug. 23	2547	596	84	1197
Clark, Roswell M., Kansas City, Mo., assignor of one-half to A. F. Bannister, Newark, N. J. Finger-bar for mowing-machines	611,993	Oct. 4	701	169	85	137
Clark, Samuel H., Cincinnati, Ohio. Mirror-holder	615,250	Dec. 6	42	10	85	1420
Clark, Sara J., <i>et al.</i> (See Clark, John K. and H. R., assignors.)						
Clark, Stephen A. D., Pasadena, Cal. Wire stretcher and cutter	610,881	Sept. 13	1331	305	84	1719
Clark, Theodore N., Toronto, Canada. Fountain-spittoon	604,692	May 24	2702	617	83	1189
Clark, William. (See Shank, Augustus W., assignor.)						
Clark, William, Galt, Canada. Saw-setting machine	615,964	Dec. 13	1355	317	85	1689
Clark, William A., assignor to Weyburn & Briggs Company, Rockford, Ill. Upsetting-machine for plowshares	609,265	Aug. 16	2065	490	84	1086
Clark, William B. (See Norlund and Clark.)						
Clarke, Charles J., Kingsbury, assignor of one-half to F. W. Frost, Oakland, Cal. Hinge for swinging sashes	600,405	Mar. 8	1425	326	82	1511
Clarke, Edmund A. S., Chicago, Ill. Producing spiegel or similar metallic alloy	604,728	May 31	2770		83	1222
Clarke, Frank. (See Chadwick and Clarke.)						
Clarke, George R., Montell, Tex. Friction-clutch	614,699	Nov. 22	2642	601	85	1172
Clarke, George R., Montell, Tex., assignor to H. H. and A. Turner, Danbury, Conn. Pouncing-machine	602,977	Apr. 26	2408	548 549	83	502
Clarke, George R., Montell, Tex., assignor to H. H. and A. Turner, Danbury, Conn. Pouncing-machine	602,978	Apr. 26	2412	549 550	83	502
Clarke, Henry, Chicago, Ill. Check-writing machine	607,833	July 26	2415	512 513	84	522
Clarke, Henry B., <i>et al.</i> (See Sultemeyer, Carl F., assignor.)						
Clarke, John, trustee. (See Field, Millard F., assignor.)						
Clarke, John E., <i>et al.</i> (See Chater, William, assignor.)						
Clarke, Louis S., W. Morgan, and W. S. Gordon, assignors to Pittsburgh Motor Vehicle Company, Pittsburg, Pa. Motor-vehicle	602,283	Apr. 12	1206	265 266	83	242
Clarke, Marian N., Wilkes-Barre, Pa. Electrode for medical purposes	609,875	Aug. 30	3148	736	84	1328
Clarke, Peete B., Mobile, Ala. Automatic scale for measuring material in bulk	601,997	Apr. 5	712	151	83	134
Clarke, Richard G., New York, N. Y. Game-pieces	599,767	Mar. 1	164	40	82	1246
Clarke, Robert, Brooklyn, N. Y. Apparatus for bending pipes	604,021	May 17	1455	326	83	933
Clarke, Robert W., Victoria, Canada. Can-opener	612,483	Oct. 18	1574	376	85	327
Clarke, Walter H., St. Louis, Mo. Paper-roll holder	609,228	Aug. 16	1991	472	84	1071
Clarke, William C., New York, N. Y., assignor to Acetylene Apparatus Manufacturing Company, of West Virginia. Apparatus for mixing air and gas	602,828	Apr. 26	2157	489	83	454
Clarke, William R., assignor to United Alkali Company, Limited, Liverpool, England. Apparatus for making chlorates and bleaching liquor	609,608	Aug. 23	2679	625	84	1221
Clarkin, P. Frank, Pontiac, Mich. Wire fence	605,595	June 14	975	225	83	1560
Clarkson, John W., Worcester, Mass., assignor, by mesne assignments, to Crompton & Knowles Loom Works, Worcester, Mass., and Providence, R. I. Comb-dabbing mechanism	609,385	Aug. 16	2264	535	84	1125
Clarkson, Thomas, Sutton, England. Instrument for drawing arcs of circles	600,357	Mar. 8	1348	308 309	82	1496
Clary, Joseph E. (See Borge and Clary.)						
Class, John F., Pleasant Hill, Ohio. Animal-trap	613,558	Nov. 1	611	141	85	732
Classen, Alexander, Aix-la-Chapelle Germany. Formaldehyde starch and making same	602,697	Apr. 19	1922		83	394
Claus, Emil L., assignor to Claus Handle-Bar Company, Milwaukee, Wis. Bicycle handle-bar	612,193	Oct. 11	1060	255	85	217
Claus Handle-Bar Company. (See Claus, Emil L., assignor.)						
Clausen, Anne M. (See Rock, Ferdinand, assignor.)						
Clauss, Arthur, <i>et al.</i> (See Pugh, William J., assignor.)						
Clauss, John H. (See Roberts, Albert E., assignor.)						
Claussen, Edward E., Hartford, Conn. Metal-screw machine	612,558	Oct. 18	1699	403 404 405	85	350
Claussen, Edward E., assignor to A. H. Walker, trustee, Hartford, Conn. Paper-bag machine	598,497	Feb. 8	730	176 177 178	82	758
Claviez, Emil, Chemnitz, Germany. Double-plush fabric	611,104	Sept. 20	1731	397 398	84	1810
Claviez, Emil, Chemnitz, assignor to Kunstweberei Claviez & Company, Leipsic, Germany. Making paper thread	604,349	May 17	2075	464 465	83	1053
Claviez, Emil, Chemnitz, assignor to Kunstweberei Claviez & Company, Leipsic, Germany. Apparatus for making yarn or thread from paper	604,350	May 17	2077	465	83	1053



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Claviez, Emil, Chemnitz, assignor to Kunstweberei, Claviez & Co., Gesellschaft mit beschränkter Haftung, Leipsic, Germany. Double-acting jacquard-machine for weaving double-plush fabrics	616,769	Dec. 27	2896	{ 671 672 673 }	{ 85 }	2029
Clawson, Clement C., Newark, N. J. Coffee or spice mill	599,890	Mar. 1	410	91	82	1291
Clawson, Clement C., Newark, N. J. Powder-distributor	609,572	Aug. 23	2608	610	84	1208
Clawson, Clement C., Newark, N. J. Powder-distributor	609,573	Aug. 23	2611	611	84	1209
Clawson, Linus P. (See Black, Clawson, and Connelly.)						
Clawson, Richard E. (See Fisher, Thomas N., assignor.)						
Clawson, William H., Rob Roy, Ind. Device for contracting and expanding vehicle-rims.	604,654	May 24	2621	{ 599 600 }	{ 83 }	1175
Clay, Harry C. (See Reeves, Kailor, and Clay.)						
Clay, Henry, Fernwood, assignor to J. Johnson, trustee, Philadelphia, Pa. Motor	603,173	Apr. 26	2735	623	83	565
Clay, Henry, Fernwood, assignor to J. Slingluff, Norristown, Pa. Pneumatic-despatch tube	603,174	Apr. 26	2737	623	83	566
Clay, William H., Elizabeth, Ky. Gate	603,258	May 3	25	7	83	605
Claycomb, Alexander, <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Clayton, Augustus L. (See Mehl, Andrew, assignor.)						
Clayton, Fred. (See Meldrum and Clayton.)						
Clayton, Henry H., Readville, Mass. Kite	605,596	June 14	975	{ 225 226 }	{ 83 }	1560
Clayton, James. (See Clayton, Thomas G., assignor.)						
Clayton, James, New York, N. Y. Audiphone	612,639	Oct. 18	1862	440	85	381
Clayton, John, Cuyahoga Falls, Ohio. Trolley	600,633	Mar. 15	1841	421	82	1609
Clayton, Thomas G., Normanton, England, assignor to J. Clayton, New York, N. Y. Steam-engine	608,421	Aug. 2	459	102	84	747
Clayton, William, St. Louis, Mo. Vehicle-fender	598,769	Feb. 8	1197	{ 288 289 }	{ 82 }	847
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Coin-displayer	609,411	Aug. 23	2319	{ 547 548 }	{ 84 }	1154
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator	600,136	Mar. 8	985	220	82	1426
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash-register	612,543	Oct. 18	1664	396	85	344
Cleave, John, Crediton, England. Candy-kettle	601,747	Apr. 5	245	48	83	47
Cleaveland, Henry G., Newton, Mass. Supplemental blind-latch	611,235	Sept. 27	1990	459	84	1879
Cleaver, William, <i>et al.</i> (See Thame, Henry, assignor.)						
Clegg, David, Philadelphia, Pa. Apparatus for forming gas	606,189	June 28	2134	490	83	1812
Clegg, James, New York, N. Y., assignor to Metallic Insulation Company, New Brunswick, N. J. Strain-insulator	599,498	Feb. 22	2495	587	82	1133
Clegg, James H. L. (See Cram and Clegg.)						
Cleland, Darius, Oakland, Cal. Painter's roof-bracket	602,209	Apr. 12	1083	237	83	217
Cleland, James M., Philadelphia, Pa. Expandible sprocket-wheel for bicycles, &c.	598,654	Feb. 8	1009	243	82	811
Clement, Archie, and W. E. Wilkinson, Chicago, Ill. Nipple for nursing-bottles	605,161	June 7	188	48	83	1386
Clement, Trasimond, Thibodeaux, La. Fly-trap	602,126	Apr. 12	925	202	83	187
Clements, Edward N., <i>et al.</i> (See Phelps, James M., assignor.)						
Clements, Eilert A., Grand Rapids, Mich. Undergarment	599,118	Feb. 15	1786	426	82	976
Clements, George R., Rock Creek, Minn. Saw-frame	605,597	June 14	979	226	83	1560
Clements, James W., assignor of one-half to C. M. Mathis, Denver, Colo. Garter	599,164	Feb. 15	1867	442	82	990
Clements, John, London, England. Speed-indicating alarm for bicycles, &c.	613,025	Oct. 25	2538	604	85	532
Clemm, William T. B., Pocahontas, Va. Lifting device	601,631	Apr. 5	12	3	83	5
Clemson, Charles. (See Cowles and Clemson.)						
Clemson, George N., Middletown, N. Y. Water-tube boiler	600,683	Mar. 15	1935	440	82	1626
Clemson, George N., Middletown, N. Y. Hack-saw	601,947	Apr. 5	641	134	83	120
Clemson, George N., Middletown, N. Y. Hack-saw	603,128	Apr. 26	2671	306	83	553
Clepper, T. J. (See Welsh, Hamilton E., assignor.)						
Clerk, William B., <i>et al.</i> (See Kelley, Alexander, assignor.)						
Cleveland Co-Operative Stove and Hollow Ware Foundry Company. (See Baldwin, William W., assignor.)						
Cleveland, Eugene W. (See Cleveland, William F. and E. W.)						
Cleveland Co-Operative Stove and Hollow Ware Foundry Company. (See Baldwin, William W., assignor.)						
Cleveland, Isham H., Union, Miss. Combination-lock	605,271	June 7	410	92	83	1430
Cleveland, Roswell W. C., assignor of one-half to S. P. Wharton, Philadelphia, Pa. Machine for grinding backs of button-blanks	609,140	Aug. 16	1820	432	84	1037
Cleveland School Furniture Company. (See Hiteshew and Spieth, assignors.)						
Cleveland School Furniture Company. (See Kennedy, Albert H., assignor.)						
Cleveland School Furniture Company. (See Wicke, Wilhelm, assignor.)						
Cleveland, William B., Cleveland, Ohio. Electrically-controlled valve for hydraulic presses	610,524	Sept. 13	715	162	84	1593
Cleveland, William B., Cleveland, Ohio. Forming electrical connections	614,839	Nov. 29	2880	662	85	1234
Cleveland, William F., and E. W., Rounthwaite, Canada. Steam-engine	602,392	Apr. 12	1389	{ 311 312 }	{ 83 }	280
Cliff, Edward, Newark, N. J. Hose-reel	597,100	Jan. 11	1137	269	82	238
Cliff, Edward, Newark, N. J. Hose-reel	601,632	Apr. 5	13	3	83	5
Cliff, Edward, Newark, N. J. Hose-reel	601,633	Apr. 5	15	4	83	5
Cliff, Edward, Newark, N. J. Hose-reel	602,057	Apr. 12	808	175	83	165
Cliff, Edward, Newark, N. J. Hose-rack	608,651	Aug. 9	868	200	84	845
Cliff, Edward, Newark, N. J. Electric-car truck	614,161	Nov. 15	1638	376	85	973
Clifford, Charles C., Philadelphia, Pa. Adding-machine	602,154	Apr. 12	985	{ 216 217 }	{ 83 }	198
Clifford, Walter, London, England. Cycle-saddle	603,943	May 10	1269	288	83	863
Climie, Benjamin K., Cooperstown, N. D. Attachment for platform-scales	597,761	Jan. 25	2246	522	82	487
Clinch Broom Manufacturing Company. (See Read, Walter C., assignor.)						
Cline, Charles F., Clayton, Ind. Burglar-alarm	615,477	Dec. 6	489	{ 113 114 }	{ 85 }	1506
Cline, George A., Toronto, Canada. Automatic vending-machine	606,802	July 5	312	65, 66	84	62
Cline, George W., Canton, Ohio. Metal railway-tie	610,670	Sept. 13	955	221	84	1642
Cline, William, assignor to D. D. Good, J. J. Stewart, and J. Sondheimer, Lancaster, Pa. Hay-rack for stock-cars	597,262	Jan. 11	1389	325	82	285
Cline, William, assignor to D. D. Good, J. J. Stewart, and J. Sondheimer, Lancaster, Pa. Elevator	605,854	June 21	1498	{ 343 344 }	{ 83 }	1674
Clinkinbeard, Fagan J., assignor of one-half to A. J. Calhoun, Windsor, Mo. Device for raising or lowering cellar-doors	597,457	Jan. 18	1740	402	82	372
Clinton Book Holder Company. (See Platt, Albert L., assignor.)						
Clish, Gardner, <i>et al.</i> (See McClair, Charles A., assignor.)						
Clish, Gardner, <i>et al.</i> (See Smallwood, Robert, assignor.)						
Clizbe, Adelbert R., Chicago, Ill. Grinding-machine	611,893	Oct. 4	520	126	85	103



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Clodfelter, Noah J., <i>et al.</i> (See Miller, John F., assignor.)						
Close, John W., assignor of one-half to G. L. Lovejoy, Buffalo, N. Y. Lock-rail frog	605,662	June 14	1108	255	83	1583
Close, Thomas J., Philadelphia, Pa. Junction-box for electric conductors	598,498	Feb. 8	737	178	82	759
Closz, Charles, Webster City, Iowa. Grain-separating screen for threshing-machines	607,598	July 19	1973	409	84	419
Clot, John B. (See Hawley and Clot.)						
Clotworthy, Frank M., Baltimore, Md. Operating mechanism for chimney-dampers	611,057	Sept. 20	1640	375	84	1792
Cloud, William H., Haddonfield, N. J. Bath-trap	610,800	Sept. 13	1193	274	84	1690
Cloud, William H., assignor of one-half to C. M. Styer, Kokomo, Ind. Measuring vessel	614,646	Nov. 22	2542	580	85	1153
Clough, Henry W., Topeka, Kans. Snap-hook	612,194	Oct. 11	1062	255	85	217
Clough, John, Bradford, and J. Bush, Coventry, England. Variable speed and power mechanism for motor-vehicles	615,430	Dec. 6	400	95, 96	85	1491
Cloutier, Noë, Attleborough, Mass. Spectacles	598,908	Feb. 15	1425	343	82	906
Clover, Howard K., Council Bluffs, Iowa. Oil-gas motor	603,318	May 3	126	30	83	626
Clow, William E., Chicago, Ill. Watchmaker's gage	600,945	Mar. 22	2370	539	82	1723
Clowes, Arthur, <i>et al.</i> (See Simister, Robert S., assignor.)						
Clowes, George H. (See Deming, Ferdinand, assignor.)						
Clowes, Walter. (See Nesbit and Clowes.)						
Clowry, William H., Chicago, Ill. Air-brake	605,394	June 7	643	144	83	1475
Cloyes, James H., assignor to Staver Carriage Company, Chicago, Ill. Spring-seat	604,368	May 24	2114	474	83	1080
Clubbe, Ernest J., and A. W. Southey, London, England. Steering-wheel for motor-vehicles	612,017	Oct. 11	760	188	85	159
Clulee, Stephen J., Attleborough, Mass. Frameless spectacles or eyeglasses	604,138	May 17	1671	375	83	974
Clunies, Arthur B. (See Will and Clunies.)						
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Stove	607,111	July 12	894	193 194	84	192
Cluxton, James R., London, Ohio. Washboard	603,552	May 3	572	126	83	712
Clymans, Ezra G., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Threshing-machine	597,458	Jan. 18	1742	403	82	372
Clymans, Ezra G., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Timothy-cleaning attachment for grain-separators	597,459	Jan. 18	1746	403	82	373
Clymans, Ezra G., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Threshing-machine	614,934	Nov. 29	3075	706 707	85	1273
Clymer, David H., Dayton, Ohio. Bevel-square	615,806	Dec. 13	1072	252	85	1635
Coachman, James J., Rio Janeiro, Brazil. Electric dental-engine controller	603,524	May 3	528	116 117	83	702
Coachman, Robert A., Tunica, Miss. Hook	601,240	Mar. 29	2876	656	82	1846
Coates, Clarence, Cliftondale, Mass. Combination shears and buttonhole-cutter	606,123	June 21	2013	461	83	1770
Coates, Frank R., Stamford, Conn., and O. M. Shepard, New York, N. Y. Emergency-crossover	609,660	Aug. 23	2795	651	84	1244
Coates, John, Olive, Cal. Windmill	605,079	June 7	18	6	83	1356
Coates, Thomas, Youngstown, Ohio, assignor of one-half to J. Kenworthy, Pittsburg, Pa. Method of and apparatus for manufacturing tubing	603,812	May 10	1032	230	83	818
Coats, William T. (See Raymond and Lemley, assignors.)						
Cobb, Alphonso H., Asheville, N. C. Ball-caster	615,529	Dec. 6	584	133	85	1525
Cobb, Alton E., Phoenix, Ariz. Ter. Steam-engine	599,830	Mar. 1	296	66	82	1268
Cobb, Benjamin P., Bozeman, Mont. Meat-holding device	607,680	July 19	2117	443	84	446
Cobb, Delphin M. (See Sprouls, Robert A., assignor.)						
Cobb, Edward H., assignor of one-half to W. N. Cox, Westminster, S. C. Keyhole-guard	603,304	Mar. 8	1263	288	82	1480
Cobb, Edward S., San Francisco, Cal. Fuel-compressing machine	614,200	Nov. 15	1702	391	85	985
Cobb, Norman P., assignor of one-half to A. C. Perry, Chicago, Ill. Gearing for bicycles	607,218	July 12	1092	235	84	228
Cobb, Ruric E., assignor of one-half to C. H. S. Jackson, Hephzibah, Ga. Piano-action	608,177	Aug. 2	16	4, 5	84	657
Cobb, Samuel C., Janesville, Wis. Cultivator	610,030	Aug. 30	3436	796	84	1383
Cobenzl, Albert S., Höchst, Germany. Photographic developing apparatus	609,661	Aug. 23	2797	652	84	1244
Coburn, Alonzo A., Lowell, Mass. Machine for opening and working fibrous materials	598,224	Feb. 1	385	89, 90	82	675
Coburn, Lemuel, Holyoke, Mass. Bedstead	597,876	Jan. 25	2448	571	82	525
Coburn, Lemuel, assignor to Coburn Metallic Bed and Pneumatic Tube Mattress Company, Holyoke, Mass. Bedstead	608,545	Aug. 2	661	150	84	786
Coburn, Lemuel, assignor to Coburn Metallic Bed and Pneumatic Tube Mattress Company, Holyoke, Mass. Bedstead	608,546	Aug. 2	663	150	84	786
Coburn, Lemuel, assignor to Coburn Metallic Bed and Pneumatic Tube Mattress Company, Holyoke, Mass. Cot-bed	608,547	Aug. 2	664	151	84	787
Coburn Metallic Bed and Pneumatic Tube Mattress Company. (See Coburn, Lemuel, assignor.)						
Coburn, Richard L., Roanoke, Va. Lamp-burner	596,482	Jan. 4	26	7	82	8
Coburn Trolley Track Manufacturing Company. (See Sumner, William J., assignor.)						
Coburn, Wilbur P., Lafayette, Ind. Spark-arrester	613,119	Oct. 25	2694	636	85	563
Cocayne, Isidore J., assignor of one-half to P. Strebler, St. Louis, Mo. Cooper's plane	597,980	Jan. 25	2533	591	82	541
Cochran, Andrew. (See Cochran, James S., assignor.)						
Cochran Company. (See Dortch, John M., assignor.)						
Cochran Company. (See Moxham, Arthur J., assignor.)						
Cochran Company. (See Phelps, Frederick A., Jr., assignor.)						
Cochran, Henry R., Bearden, Ark. Automatic car-coupling	609,792	Aug. 30	3009	705	84	1299
Cochran, Heywood, Johnstown, Pa. Apparatus for protecting buildings from fire	616,078	Dec. 20	1568	366	85	1748
Cochran, James M., St. Louis, Mo. Wrench	597,762	Jan. 25	2247	523	82	487
Cochran, James S., assignor to A. Cochran, Philadelphia, Pa. Cattle-food	610,258	Sept. 6	213		84	1483
Cochran, John C. (See Hacherelle, Louis E., assignor.)						
Cochran, John R., New York, N. Y., assignor to A. J. Roche, Cleveland, Ohio. Hose-cleaner	616,696	Dec. 27	2778	646	85	2005
Cochran, Lucius E., Youngstown, Ohio. Chute for bins	613,026	Oct. 25	2540	604	85	532
Cochran, Thomas, Jr. (See Beckwith and McCollum, assignors.)						
Cochran, William, assignor to J. Royle & Sons, Paterson, N. J. Machine for punching cards	612,640	Oct. 18	1863	441 442	85	381
Cochrane, Adam, assignor to Cochrane Fence Machine Company, Limited, Detroit, Mich. Machine for weaving wire fences, &c.	612,400	Oct. 18	1425	344 345	85	298
Cochrane, Douglas M. B. H., London, England. Ammunition-holder for machine-guns	607,681	July 19	2117	443	84	446
Cochrane, Douglas M. B. H., London, England. Cycle-saddle	610,429	Sept. 6	543	119	84	1542
Cochrane Fence Machine Company. (See Cochrane, Adam, assignor.)						
Cochrane, Hayward, Chicago, Ill. Electric elevator	605,598	June 14	980	226	83	1560
Cochrane, Jasper D. (See Mitchell, William A., assignor.)						
Cochrane, Jeannie, <i>et al.</i> (See McNabb, Duncan, assignor.)						
Cock, William R., Plainfield, N. J. Electrical rail-bond and securing same in place	608,178	Aug. 2	18	5	84	658
Cockburn, George G., assignor to T. H. Brooks and W. H. Shepard, Cleveland, Ohio. Corner street-sign	602,427	Apr. 19	1449	328	83	305
Cockburn, Lestock W., Hamilton, Canada. Pneumatic or other elastic tire	616,182	Dec. 20	1800	416	85	1795
Cockburn, Robert R. (See Hunter, Marjory, assignor.)						
Cocker, John, Philadelphia, Pa. Warping-roller	597,956	Jan. 25	2586	604	82	552



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Cocker, Joseph N., West Devonport, Tasmania. Potato-harvester. (Reissue) .....	11,674	June 28	2976	{ 690 691	{ 83	1977
Cody, Martin, New York, N. Y. Safety attachment for scaffolds .....	613,971	Nov. 8	1310	298	85	887
Cody, Robert D., Chicago, Ill. Lamp .....	606,445	June 28	2634	606	83	1911
Coe, Andrew H., Pittsburg, Pa. Machine for manufacturing horseshoes .....	599,684	Mar. 1	13	3, 4	82	1219
Coe Brass Manufacturing Company. (See Brooker, Charles F., assignor.) .....						
Coe, John S., Paterson, N. J. Thermostatic gas-regulator .....	607,406	July 12	1446	307	84	295
Coe, John S., Paterson, N. J., assignor to Supreme Combination Water Heater Company, of New Jersey. Means for automatically controlling supply of gas and water, &c .....	610,343	Sept. 6	386	82	84	1514
Coe, Walter H., Providence, R. I. Device for applying metallic leaf .....	599,140	Feb. 15	1825	433	82	983
Coe, Walter H., Providence, R. I. Gilding-tool .....	608,106	July 26	2915	624	84	620
Coeffield, John, Frankhn, Pa. Bicycle-wheel .....	612,308	Oct. 11	1274	307	85	256
Coes, Frederick L., assignor to Coes Wrench Company, Worcester, Mass. Screw-wrench .....	608,439	Aug. 2	485	110	84	752
Coes, John H. (See Coes, Loring and J. H.) .....						
Coes, Loring, assignor to Coes Wrench Company, Worcester, Mass. Wrench .....	610,259	Sept. 6	213	48	84	1483
Coes, Loring and J. H., assignors to Coes Wrench Company, Worcester, Mass. Making wrenches .....	613,245	Nov. 1	35	8	85	624
Coes Wrench Company. (See Coes, Frederick L., assignor.) .....						
Coes Wrench Company. (See Coes, Loring, assignor.) .....						
Coes Wrench Company. (See Coes, Loring and J. H., assignors.) .....						
Coes, Zoroaster B. (See Haskins and Coes.) .....						
Coffee, Robert W., Bedford City, assignor to Standard Tobacco Stemmer Company, Richmond, Va. Tobacco-stemming machine .....	599,308	Feb. 15	2104	{ 498 499 500 501 502 503 504 505	{ 82	1035
Coffee, Robert W., assignor to Standard Tobacco Stemmer Company, Richmond, Va. Tobacco-stemming machine .....	599,309	Feb. 15	2115	{ 503 504 505	{ 82	1037
Coffee, William M., assignor of one-half to G. Lambert and A. F. Hopke, San Francisco, Cal. Pipe-coupling .....	598,857	Feb. 8	1334	323	82	873
Coffey, Henry D., Gays, Va. Churn .....	609,412	Aug. 23	2322	548	84	1155
Coffey, John A., Anaconda, Mont. Marker for graves, lands, &c .....	605,395	June 7	645	144	83	1475
Coffey, John F., Omaha, Nebr. Stop-cock and waste .....	608,179	Aug. 2	19	5	84	658
Coffield, Samuel, Winamac, Ind. Burglar-alarm .....	611,772	Oct. 4	308	74	85	63
Coffin, C. A., et al., administrators. (See Van Depoele, Charles J.) .....						
Coffin, Melvin H., assignor to Whitin Machine Works, Whitinsville, Mass. Carding-machine .....	597,314	Jan. 11	1465	344	82	301
Coffin, Samuel, High Point, N. C. Shaft-hanger .....	601,885	Apr. 5	508	105	83	96
Coffman, Ralph B., assignor of one-half to M. E. Dearing, Indianapolis, Ind. Bed .....	598,473	Feb. 1	690	168	82	733
Coggeshall, Robert D., assignor of three-fourths to J. D. Johnston, Newport, R. I. Door knocker and alarm .....	602,573	Apr. 19	1694	385	83	350
Coggins, Sarah J., Mount Morris, Ill. Ironing-table .....	602,428	Apr. 19	1450	{ 328 329	{ 83	306
Cogley, Marcus A., Croton, N. Y. Pot-bail holder .....	606,276	June 28	2314	536	83	1849
Cogswell, John H. (See Starr and Cogswell.) .....						
Cohalan, Cornelius, Jersey City, N. J. Clamp .....	601,370	Mar. 29	3119	704	82	1893
Cohalan, Daniel F., et al. (See Sill, Richard V., assignor.) .....						
Cohalan, Timothy, et al. (See Sill, Richard V., assignor.) .....						
Cohen, Andrew J. (See Seymour, William S., assignor.) .....						
Cohen, Louis P., New York, N. Y. Cane conveyer and feeding apparatus .....	614,647	Nov. 22	2543	580	85	1154
Cohen, Louis P., and H. C. Wolterbeck, New York, N. Y. Differential gear for bicycles .....	597,877	Jan. 25	2450	571	82	526
Cohen, Maurice. (See Shailer, George W., assignor.) .....						
Cohen, Sarah Z. (See Munday, William S., assignor.) .....						
Cohen, Victor E., assignor to Hill Manufacturing Company, Philadelphia, Pa. Compression-pump .....	599,831	Mar. 1	299	67	82	1269
Cohn, Israel, New York, N. Y. Flash-light apparatus .....	610,472	Sept. 6	619	139	84	1557
Cohn, Sam, assignor to J. Saphir, Chicago, Ill. Explosive toy .....	598,909	Feb. 15	1426	343	82	906
Cohn, Sigmund, et al. (See Kassmayer, Morris, assignor.) .....						
Cohnen, Bernhard, Grevenbroich, Germany. Apparatus for sizing and dressing hank-yarn .....	603,622	May 10	700	{ 156 157	{ 83	753
Coirin, Ferdinand, Paterson, N. J. Spindle .....	600,634	Mar. 15	1842	422	82	1609
Coins, Francis J., Marshall, Tex. Protector for stay-bolts .....	604,369	May 24	2114	475	83	1080
Coker, James L., Jr., Hartsville, S. C. Digester and protecting same .....	609,733	Aug. 23	2904	680	84	1266
Coker, Willie P., Oakdale, Okla. Ter. Churn .....	607,342	July 12	1326	283	84	274
Colbath, Monroe D., Easton, Me. Dish-cleaner .....	597,957	Jan. 25	2587	604	82	552
Colbath, Monroe D., Easton, Me. Dish-cleaner .....	611,607	Oct. 4	23	6	85	7
Colborne, Oliver, Chicago, Ill. Vise .....	605,855	June 21	1500	344	83	1675
Colburn, Charles U. (See De Tray, Frederick H., assignor.) .....						
Colburn, Leslie H., Toledo, Ohio. Machine for cutting slots .....	599,054	Feb. 15	1681	{ 398 399	{ 82	958
Colburn, Leslie H., assignor of one-half to H. and A. E. Baker, Toledo, Ohio. Upright boring and turning machine .....	599,551	Feb. 22	2593	{ 608 609	{ 82	1152
Colby, Ada H., administratrix. (See Colby, Frank A.) .....						
Colby & Co. (See Hawes, Herbert E., assignor.) .....						
Colby, Frank A., deceased; A. H. Colby, Berlin, N. H., administratrix, assignor to Vacuum Drier Company, of Vermont. Machine for drying webs of cloth or paper .....	612,944	Oct. 25	2412	575	85	506
Colby, Melvin F. (See Baker and Colby.) .....						
Colby, Royal L., Alexandria, Minn. Car-door .....	613,495	Nov. 1	514	116	85	713
Colcord, E. C. (See Sattes, John C., assignor.) .....						
Coldwell, Thomas, Newburg, N. Y. Grass-collector for lawn-mowers .....	608,029	July 26	2802	596	84	598
Coldwell, Thomas and W. H., Newburg, N. Y. Rope-measuring device .....	612,484	Oct. 18	1575	{ 376 377	{ 85	327
Coldwell, William H. (See Coldwell, Thomas and W. H.) .....						
Cole, A. D., et al. (See Butler, William H., assignor.) .....						
Cole, A. D., et al. (See Hill, James A., assignor.) .....						
Cole, A. E., et al. (See Butler, William H., assignor.) .....						
Cole, A. E., et al. (See Hill, James A., assignor.) .....						
Cole, Charles S., and J. H. Kinsman, Bridgeport, Conn. Pencil-sharpener .....	598,770	Feb. 8	1199	289	83	847
Cole, Charles S., and J. H. Kinsman, Bridgeport, Conn. Lighting or extinguishing automatically incandescent electric lamps .....	616,770	Dec. 27	2899	{ 673 674	{ 85	2030
Cole, Daniel W., assignor of one-half to J. J. Wright and J. P. Woods, Baldwin, Kans. Heating-stove .....	596,693	Jan. 4	425	96	82	84
Cole, David, Chicago, Ill., assignor to Gates Iron Works, of Illinois. Steam ore-stamp .....	608,422	Aug. 2	460	103	84	747
Cole, David, Chicago, Ill., assignor to Gates Iron Works, of Illinois. Steam ore-stamp .....	608,423	Aug. 2	463	{ 103 104	{ 84	748
Cole, Ernest C., Council Bluffs, Iowa. Stove .....	604,655	May 24	2622	600	83	1175



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Cole, Frank E. (See Eltzroth, Forest W., assignor.)						
Cole, Frederick W., Newton, Mass. Telegraph-repeater	616,222	Dec. 20	1869	432 433	85	1808
Cole, Louis M. (See Underwood, Herman M., assignor.)						
Cole, Marcellus, assignor to National Plunger Company, Washington, D. C. Testing-plug	613,246	Nov. 1	37	9	85	624
Cole, Robert W. (See Porteous and Cole.)						
Cole, Thomas A., assignor to American Manufacturing Company, Indianapolis, Ind. Cigar-tip cutter	606,377	June 28	2508	582	83	1886
Cole, W. T., <i>et al.</i> (See Hill, James A., assignor.)						
Cole, William, Millerton, Pa. Hay-boring apparatus	601,124	Mar. 22	2658	607	82	1778
Colegrove, Charles E., assignor to White Sewing Machine Company, Cleveland, Ohio. Bicycle-bearing	610,166	Sept. 6	11	3	84	1445
Colegrove, Mary E., Chicago, Ill. Riding-dress	598,980	Feb. 15	1559	370	82	932
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to G. P. Jones, Chicago, Ill. Alarm system	606,405	June 28	2556	592	83	1894
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to G. P. Jones, Chicago, Ill. Alarm system	607,407	July 12	1447	307	84	296
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to G. P. Jones, Chicago, Ill. Electrical burglar-alarm	616,079	Dec. 20	1570	366	85	1749
Coleman, Clyde, assignor of two-thirds to A. L. Deane and J. W. Donnell, Chicago, Ill. Electric burglar-alarm system	598,049	Jan. 25	2740	639	82	582
Coleman, Clyde, assignor of two-thirds to A. L. Deane and J. W. Donnell, Chicago, Ill. Electric burglar-alarm system	598,063	Jan. 25	2766	645	82	587
Coleman, Griffin B. (See Chamberlain and Coleman.)						
Coleman, Griffin B., and J. W. Duggan, Washington, D. C. Traveling contact for under-ground electric railways	602,678	Apr. 19	1890	430 431	83	388
Coleman, Hamilton D., New Orleans, La. Baling-press	599,685	Mar. 1	15	4	82	1219
Coleman, John, Williamsport, Pa. Combined edger and trimmer	614,089	Nov. 15	1511	346	85	949
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signal	604,303	May 17	1974	442	83	1033
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signal	604,304	May 17	1976	443	83	1034
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signaling	611,894	Oct. 4	523	126 127	85	104
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signaling	615,142	Nov. 29	3475	797	85	1349
Coleman, Joseph H., Tottenham, assignor of one-half to J. Steel, Montreal, Canada. Fare-box	608,107	July 26	2915	624	84	620
Coleman, Thomas, Jr., Rochester, Pa. Apparatus for manufacturing glassware	615,608	Dec. 6	720	166	85	1554
Coleman, Thomas, Jr., C. Runyon, Rochester, and F. Zahn, Freedom, Pa. Apparatus for manufacturing glassware	608,754	Aug. 9	1043	239 240	84	880
Coler, Peter P., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Cord-knotter for grain-binders	604,022	May 17	1456	326	83	934
Coles, Walter S., Cincinnati, Ohio. Tray for duplicate whist	609,876	Aug. 30	3149	736	84	1328
Colgate, Arthur E., New York, assignor to Signal Control Company, Brooklyn, N. Y. Valve-controller	602,429	Apr. 19	1451	329	83	306
Colgate, Arthur E., New York, assignor to G. J. Schoeffel, Brooklyn, N. Y. Electrical valve-controlling device	605,197	June 7	251	59	83	1398
Colin, Theodore F., Pittsburg, Pa. Making cyanids and ammonia	598,195	Feb. 1	216	50	82	643
Colin, Theodore F., Jersey City, N. J. Desulfurizing petroleum	607,017	July 12	686		84	156
Coll, Edward A., Pittsburg, Pa. Carpet-fastener	600,514	Mar. 15	1646	375	82	1573
Collar, Adoniram J., Yreka, Cal. Window fly-escape	596,805	Jan. 4	615	142	82	118
Collat, Isidore, <i>et al.</i> (See Gardner, Jacob N., assignor.)						
Collat, Lilly, <i>et al.</i> (See Gardner, Jacob N., assignor.)						
Collen, Robert, London, England. Machinery for manufacturing casks or barrels	606,516	June 28	2738	632 633	83	1933
Collen, Robert, London, England. Trussing-machine	606,957	July 5	553	122	84	110
Collen, Robert, London, England. Machinery for manufacturing casks or barrels	607,219	July 12	1094	236	84	228
Collen, Robert, London, England. Trussing-machine	613,247	Nov. 1	38	9	85	624
Colleran, Thomas, assignor of one-half to R. W. Braithwaite and G. W. Bedells, Toronto, Canada. Metal bedstead	598,594	Feb. 8	901	217	82	792
Collett, Austin B., Lynn, Mass. Trolley-wheel	600,857	Mar. 22	2229	508	82	1697
Collier, Arthur, Goole, assignor to I. S. McDougall, Didsbury, England. Oil-extractor and feed-water purifier and heater	604,370	May 24	2115	475	83	1080
Collier, David R., and C. C. Rathburn, Gardner, Mass., assignors to Heywood Brothers & Wakefield Company, Jersey City, N. J. Hub-holding device	610,167	Sept. 6	12	4	84	1445
Collier, Joseph, assignor of one-half to J. H. Morcom and J. P. Evans, Denver, Colo. Photographic camera	600,515	Mar. 15	1646	376	82	1573
Collin, Carl, Offenbach-on-the-Main, Germany. Spinning-lathe for hollow metallic objects	596,675	Jan. 4	382	86	82	76
Collings, Francis O., Vancouver, Wash. Wrench	597,101	Jan. 11	1138	269	82	238
Collins, Charles, Los Angeles, Cal. Machine for forming springs	603,175	Apr. 26	2739	623	83	566
Collins, Curtis E., <i>et al.</i> (See Jacklin, Thomas G., assignor.)						
Collins, Edward, New York, N. Y. Safety-brake for elevator-cars	598,910	Feb. 15	1427	343	82	907
Collins, Edward C. (See Billings and Collins.)						
Collins, Edward C., Taunton, Mass. Brake-handle for cars	611,058	Sept. 20	1642	376	84	1792
Collins, Harry R., South Bethlehem, Pa. Tire	597,194	Jan. 11	1284	300	82	266
Collins, Harry R., South Bethlehem, Pa., assignor to Collins Pneumatic Hub and Wheel Works, of Pennsylvania. Vehicle-wheel	612,018	Oct. 11	761	188 189	85	159
Collins, Harry R., South Bethlehem, Pa., assignor to Collins Pneumatic Hub and Wheel Works, of Pennsylvania. Vehicle-wheel	612,019	Oct. 11	763	189	85	160
Collins, James F., assignor of one-half to F. T. Aschman, Pittsburg, Pa. Nut-lock	601,430	Mar. 29	3224	727	82	1913
Collins, John M. (See Kelly, John T., assignor.)						
Collins, Louis D., assignor to New York Central Iron Works Company, Geneva, N. Y. Damper-regulator	613,005	Oct. 25	2511	598	85	526
Collins, Mary C., Minneapolis, Minn. Skirt-cutting rule	606,706	July 5	128	28	84	27
Collins, N. W., <i>et al.</i> (See Hopper, Thomas B., assignor.)						
Collins, Patrick, <i>et al.</i> (See Patton, Oliver C., assignor.)						
Collins Plow Company. (See Brown, John W., assignor.)						
Collins Pneumatic Hub and Wheel Works. (See Collins, Harry R., assignor.)						
Collins, Reuben J. C., assignor to A. G. Hartley, London, England. Puzzle	609,081	Aug. 16	1699	404	84	1016
Collins, Samuel W., assignor of one-half to Parkhurst Brothers & Co., Indianapolis, Ind. Rotary engine	600,343	Mar. 8	1324	303	82	1492
Collins, Timothy J., Toledo, Ohio. Barber's chair	612,089	Oct. 11	890	215	85	184
Collis, John, Des Moines, Iowa. Valve	610,873	Sept. 13	1320	303	84	1717
Collmer, Otto H., South Bend, Ind. Ball-bearing mechanism	612,401	Oct. 18	1427	345	85	299



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Colls, Clara, Beaconwood Burnt Green, England. Pneumatic tire.....	603,374	May 3	223	50	83	643
Collyer, Charles W. (See Ober and Collyer.)						
Collyer, William C., assignor of one-half to W. F. Bullock, Lynn, Mass. Loom-shuttle ..	613,559	Nov. 1	612	141	85	733
Collyer, William C., and W. F. Bullock, Lynn, Mass. Combined guard and step for street-cars.....	609,082	Aug. 16	1700	405	84	1016
Collyer, William C., and W. F. Bullock, Lynn, Mass. Car-fender.....	611,677	Oct. 4	148	37	85	32
Colony, Josiah D., Philadelphia, Pa. Refrigerator.....	597,393	Jan. 18	1621	377	82	349
Colorado Iron Works Company. (See Morcom, John H., assignor.)						
Colorado Iron Works Company. (See Nesmith, John W., assignor.)						
Colquhoun, James, Clifton, Ariz. Ter. Treating copper matte.....	604,023	May 17	1458	327	83	934
Colquhoun, Percy B. (See Miller, Thomas W., assignor.)						
Colton, Arthur, Detroit, Mich. Book-holder and clamp.....	599,282	Feb. 15	2056	489	82	1026
Coltrin, John C., assignor of one-half to A. Alexander, Denver, Colo. Lock.....	610,702	Sept. 13	1004	233 234	84	1652
Colt's Patent Fire Arms Manufacturing Company. (See Ehbets, Carl J., assignor.)						
Columbia National Sand Dredging Company. (See Barnett, Charles S., assignor.)						
Columbine Cycle Company. (See McAneny, Michael, assignor.)						
Columbus Bicycle Company. (See Midgley, Thomas, assignor.)						
Columbus Bicycle Company. (See Midgley and Fink, assignors.)						
Columbus, Charles, and C. R. Hesseltine, Creston, Wash. Drill.....	608,548	Aug. 2	666	151	84	787
Coman, James W. (See Moldal, Ole A., assignor.)						
Combier, Philibert, New York, N. Y. Waistband.....	596,849	Jan. 4	686	158	82	133
Comee, George W., Waseca, Minn. Table.....	598,077	Feb. 1	14	4	82	605
Comer, Harris, Philadelphia, Pa. Valve and fluid-dispenser.....	607,019	July 12	690	150	84	156
Common Sense Bolster Company. (See Thompson, Frank, assignor.)						
Common Sense Patenting Company. (See Hensler, Joseph A., assignor.)						
Commos, Joseph T., New York, N. Y. Fumigator.....	606,446	June 28	2635	606	83	1912
Comp, Charles A., Wilkinsburg, Pa. Sheet-music turner.....	602,127	Apr. 12	927	202	83	188
Compagnie Anonyme des Forges de Chatillon et Commentry. (See Lévy, Léon, assignor.)						
Compagnie Générale l'Alumine, Exploitation des Brevets F. Raynaud, Société Anonyme. (See Raynaud, François, assignor.)						
Compagnie Générale l'Alumine, Société Anonyme. (See Raynaud, François, assignor.)						
Compagnie Internationale des Procédés Adolphe Seigle. (See Rambaud, Jean A., assignor.)						
Compagnie Internationale pour l'Allumage et l'Extinction Instantanée du Gaz. (See Lewitzki, Ladislav V., assignor.)						
Compagnie Parisienne de Couleurs d'Aniline. (See Bourcart, Emmanuel, assignor.)						
Compher, Edwin C., Leesburg, Va. Tilting gate.....	611,608	Oct. 4	24	6	85	7
Compressed Air Power Company. (See Hoadley, Joseph H., assignor.)						
Compton, Edward F., Peoria, Ill. Glue-spreading machine.....	603,075	Apr. 26	2572	584	83	532
Compton, James E., Lynn, Mass. Wheel.....	603,259	May 3	28	7	83	605
Comstock, Charles, Richmond, Va. Atmospheric-railway system.....	612,402	Oct. 18	1428	345 346	85	299
Comstock, Charles M., Windsor, assignor to L. Shaw, Mount Lebanon, N. Y. Carpet-beater.....	613,120	Oct. 25	2694	637	85	563
Comstock, Chester, assignor to Ironclad Manufacturing Company, New York, N. Y. Apparatus for distributing color.....	609,010	Aug. 16	1565	372 373	84	992
Comstock, William A., Cleveland, Ohio. Tie-rod for wire springs.....	600,358	Mar. 8	1350	309	82	1497
Conant, Edward E. (See Mays, James M., assignor.)						
Conant, Frederick O. (See Smith, Frank W., assignor.)						
Conant, Nathaniel. (See Bixby, John L., assignor.)						
Conaway, Albinus, Laurel, Md. Fire-escape.....	607,161	July 12	988	213	84	208
Conaway, John L., Philadelphia, Pa. Umbrella rib and stretcher.....	599,416	Feb. 22	2333	551	82	1102
Conde, James B., Clifton Heights, Pa. Machine for making vials, &c.....	614,840	Nov. 29	2881	662 663	85	1234
Conde, James B., Clifton Heights, Pa. Machine for making vials, syringes, &c.....	614,841	Nov. 29	2885	664	85	1235
Conde, James B., Clifton Heights, Pa. Machine for necking and lipping vials, &c.....	614,935	Nov. 29	3080	707 708	85	1274
Condé, Swits, Oswego, N. Y. Combination knit garment.....	614,290	Nov. 15	1883	435	85	1018
Condell, Henry J., New York, N. Y. Toe-clip for bicycles.....	615,679	Dec. 13	852	196	85	1592
Condit, George F., Orange, N. J. Vise.....	601,313	Mar. 29	3034	683	82	1877
Condit, Howard C. (See Cottrell and Condit.)						
Condit, Sears. (See Headly, Angus, assignor.)						
Condon, John T., assignor to M. A. Condon, Lemars, Iowa. Harness-loop.....	613,121	Oct. 25	2695	637	85	563
Condon, Mary A. (See Condon, John T., assignor.)						
Cone, Henry. (See Blackman, Cone, and Neill.)						
Cone, John N., Mineville, N. Y. Tricycle-horse.....	601,555	Mar. 29	3429	779	82	1955
Conerly, Oliver C., Wanamaker, S. C. Door-stop.....	613,356	Nov. 1	248	56	85	665
Confectioners Machinery and Manufacturing Company. (See Knox, George F., assignor.)						
Congdon, Cassius, West Clarksville, N. Y. Milk-can cover.....	613,442	Nov. 1	418	95	85	696
Congelton, Osborn, assignor to Handy Pin Company, New York, N. Y. Pin.....	600,406	Mar. 8	1426	326	82	1512
Congelton, Osborn, assignor to Handy Pin Company, New York, N. Y. Pin.....	600,477	Mar. 8	1555	358	82	1534
Conger, Arthur H., et al. (See Cubbison, Frank E., assignor.)						
Conger, Arthur H., et al. (See Garnier, Thomas R., assignor.)						
Conger, Charles A., assignor, by mesne assignments, to Conger Manufacturing Company, Oakland, Cal. Ring-slide for ropes.....	600,109	Mar. 1	884	203	82	1387
Conger, Charles A., assignor, by mesne assignments, to Conger Manufacturing Company, Oakland, Cal. Eye for rope halters and hitching-ropes.....	600,110	Mar. 1	885	204	82	1387
Conger Manufacturing Company. (See Conger, Charles A., assignor.)						
Conkell, Elias W. (See Kauffman, Conkell, and Kauffman.)						
Conkey, Albert B., et al. (See Habermann, George J., assignor.)						
Conklin, Oliver F., Springfield, Ohio. Electric fan.....	596,483	Jan. 4	28	7	82	8
Conklin, Ray. (See La Fave, Joseph H., assignor.)						
Conkling, Allen. (See Moe, Buell, Roberts, and Conkling.)						
Conkling, Eugene, Cold Brook, N. Y., assignor, by mesne assignments, of one-half to H. B. Fenner. Wire-stretcher.....	597,102	Jan. 11	1140	269	82	238
Conkling, Nannie B., and J. H. Lee, St. Louis, Mo. Dress-skirt supporter.....	610,081	Aug. 30	3437	796	84	1383
Conley, Frederick V. (See Conley, Kerry E. and F. V.)						
Conley, Kerry E. and F. V., Spring Valley, Minn. Magazine-camera.....	599,314	Feb. 22	2134	506 507	82	1063
Conlisk, John, Ogden, Utah. Head-screen.....	599,686	Mar. 1	16	4	82	1220
Conlon, Christopher J., Brooklyn, N. Y. Fastening device for hinges.....	601,241	Mar. 29	2877	656	82	1846
Conn, W. A. (See Dunn, George A. and R. F., assignors.)						
Connell, Horatio P., Philadelphia, Pa. Kumiss and making same.....	607,634	July 19	2040		84	433
Connell, James R., assignor, by mesne assignments, to League Cycle Manufacturing Company, Milwaukee, Wis. Bicycle.....	604,710	May 24	2732	624	83	1195



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Connell, Jephson J., Brooklyn, N. Y. Rowlock	598,595	Feb. 8	903	217	82	792
Connelly, James A. (See Black, Clawson, and Connelly.)						
Connelly, James G., Verdon, S. D. Scroll-saw	598,362	Feb. 1	506	122	82	697
Connelly, Thomas, Chicago, Ill. Underground electric conduit	607,018	July 12	689	149	84	156
Conner, John D., assignor to J. S. McCartney, Philadelphia, Pa. Elevator safety appliance	599,523	Feb. 22	2544	598	82	1142
Conner, Patrick H., and F. M. Podhaski, Monticello, Iowa. Vending-machine	611,354	Sept. 27	2216	512	84	1920
Connerly, F. T., <i>et al.</i> (See Lubbock, William L., assignor.)						
Connerly, R. H., <i>et al.</i> (See Lubbock, William L., assignor.)						
Connors, James W. (See Schoen, Charles, assignor.)						
Connors, Timothy, Portland, Conn., assignor to American Stamping Company, New York, N. Y. Apparatus for shaping metal ware	601,825	Apr. 5	383	81	83	72
Connet, Ernest P., and F. A. Green, Seward, Nebr. Match-safe	605,856	June 21	1502	344	83	1675
Connett, Matthew F., Jr., Memphis, Tenn. Can-opener	609,413	Aug. 23	2324	548	84	1155
Connett, Matthew F., assignor to L. Y. Hancock, San Antonio, Tex. Fabric-turfing implement	606,707	July 5	129	28	84	28
Connett, Matthew F., San Antonio, assignor to L. Y. Hancock, Bexar county, Tex. Can-opener	608,575	Aug. 9	721	165	84	819
Connolly, Charles H., assignor of one-half to I. B. Snyder, Fort Madison, and J. H. Hass, Davenport, Iowa. Seal-lock	613,620	Nov. 1	712	165 166	85	752
Connolly, Thomas W., Rochester, N. Y. Basin-clamp	599,687	Mar. 1	17	5	82	1220
Connor, Elizabeth T. (See Connor, Michael H., assignor.)						
Connor, Michael H., assignor, by mesne assignments, to E. T. Connor, Haverhill, Mass. Leather-staking machine	605,272	June 7	412	93	83	1430
Conover, Edwin K., Newark, N. J. Method of and means for laying submerged pipes	612,485	Oct. 18	1578	377	85	327
Conquest, George A. O., London, England. Theatrical flying apparatus	612,090	Oct. 11	892	215 216	85	184
Conrad, Frank. (See Davis and Conrad.)						
Conradi, Louis, Jr., Barmen, Germany. Cover for seats of closets	597,264	Jan. 11	1392	325 326	82	286
Conrath, John, Chicago, Ill. Draft-rigging for railway-cars	606,447	June 28	2636	606 607	83	1912
Conroy, Frederick P. (See Hebaus, Joseph R., assignor.)						
Conroy, Philip J., <i>et al.</i> (See Hitchcock, Charles F., assignor.)						
Conselvea, Ira W., Newark, N. J. Propelling mechanism for bicycles	602,230	Apr. 12	1116	245	83	225
Consolidated Car Fender Company. (See Annable, Warren W., assignor.)						
Consolidated Car Fender Company. (See Range, John W., assignor.)						
Consolidated Car Fender Company. (See Woodworth, Albert C., assignor.)						
Consolidated Car-Heating Company. (See McElroy, James F., assignor.)						
Consolidated Fastener Company. (See Dowse, William B. H., assignor.)						
Consolidated Fastener Company. (See Lord, Almon, assignor.)						
Consolidated Fastener Company. (See Raymond, Pierre A., assignor.)						
Consolidated Fastener Company. (See Upton, Samuel, assignor.)						
Consolidated & McKay Lasting Machine Company. (See Brock, Matthias, assignor.)						
Consolidated Rubber Works. (See Huestis, Frederick W., assignor.)						
Consolidated Rubber Works. (See Leigh, Richard A., assignor.)						
Consolidated Sewing Machine Company. (See Dahl, Charles A., assignor.)						
Constable, Harry L., Brighton, assignor of one-half to P. Hulburd, London, England. Brake mechanism for railway-carriages or similar vehicles	599,524	Feb. 22	2547	598	82	1143
Constable, Henry, London, England. Rim and resilient tire for wheels	613,972	Nov. 8	1311	299	85	887
Constant, Boston S., Bloomington, Ill. Grain feeder and conveyer	608,180	Aug. 2	20	5, 6	84	658
Conti, James T. F., Paris, France. Rotary engine	608,401	Aug. 2	420	92	84	739
Continental Cotton Seed Company. (See Rosamond, Frank E., assignor.)						
Continental Cotton Seed Company. (See Rosamond, John S., assignor.)						
Continuous Rail-Joint Company of America. (See Bradley, William J., assignor.)						
Converse, Francis B., Jr., Louisville, Ky. Type setting and justifying machine	601,706	Apr. 5	140	28 29 30 31	83	30
Converse, John H., <i>et al.</i> (See Austin, William L., assignor.)						
Converse, John H., <i>et al.</i> (See Vaulain, Samuel M., assignor.)						
Converse, Maschil D. (See Le Roy and Converse.)						
Converse, Oliver E., St. Louis, Mo. Type-writing or printing machine	608,440	Aug. 2	487	110	84	752
Conver e. Oliver E., St. Louis, Mo. Safe	604,894	May 31	3040	698	83	1274
Conway, Edward P., Southington, Conn. Axle-nut wrench	606,047	June 21	1869	431	83	1742
Conway, John, assignor to Union Granite Company, Union, N. J. Partition for washtubs	612,823	Oct. 25	2202	523	85	466
Conway, John P., <i>et al.</i> (See Conway, Thomas J., assignor.)						
Conway, John P., New York, N. Y. Switchboard and alarm mechanism	607,343	July 12	1327	283 284	84	274
Conway, Thomas H., Detroit, Mich. Heating-stove	606,048	June 21	1870	431	83	1742
Conway, Thomas J., assignor of two-thirds to J. A. McGuire and J. P. Conway, Lowell, Mass. Coin-controlled machine	612,020	Oct. 11	766	189 190	85	160
Conway, William E., and E. A. Murray, Menominee, Wis.; said Murray assignor to said Conway. Cistern-cleaner	606,161	June 21	2080	479	83	1783
Conwell, Anthony, Z. H. Tinklepaugh, and P. Sheridan, Peckville, Pa. Mine-car axle	614,444	Nov. 22	2184	501	85	1089
Conwell, Emerson V., Uhrichsville, Ohio. Baby-walker	597,263	Jan. 11	1391	325	82	286
Cook, Abraham. (See Crawford, William I., assignor.)						
Cook, Adolphus H., Markham, Canada. Portable fence	612,824	Oct. 25	2204	523	85	466
Cook, Alfred H., Jr., Joliet, Ill. File for prescriptions	604,108	May 17	1621	364	83	965
Cook, August D., Lawrenceburg, Ind. Packer for tubular wells	597,493	Jan. 18	1802	417	82	384
Cook, Charles J., New York, N. Y. Sprocket-chain	615,807	Dec. 13	1073	252	85	1635
Cook, Charles S., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Controller for electric motors	597,265	Jan. 11	1393	326	82	286
Cook, Daniel B., Superior, Wis., assignor to Cook Rotary Engine Company, of Wisconsin. Rotary engine	604,709	May 24	2729	623 624	83	1195
Cook, Edward J., Cleveland, Ohio. Insulating trolley-hanger	597,140	Jan. 11	1198	281	82	249
Cook, Egbert C., Oak Park, Ill. Tent-fastening	601,805	Apr. 5	343	70	83	64
Cook, Francis H., Spokane, Wash. Rock-breaker and ore-crusher	610,122	Aug. 30	3578	828 829	84	1414
Cook, Frank B., Chicago, Ill. Apparatus for telephones	596,806	Jan. 4	617	142	82	119
Cook, Frank B., Chicago, Ill. Telephone switch-plug	596,850	Jan. 4	687	158	82	133
Cook, Frank B., Chicago, Ill. Telephone apparatus	596,851	Jan. 4	688	159	82	134
Cook, Frank B., Chicago, Ill. Switch for telephone-circuits	596,852	Jan. 4	691	159	82	134
Cook, Frank B., Chicago, Ill. Telephone apparatus	598,285	Feb. 1	387	90, 91	82	675
Cook, Frederick W., Jr., San Antonio, Tex. Time-recorder	602,305	Apr. 12	1245	273	83	250
Cook, Frederick W., assignor to C. J. Anderson and G. W. Cartwright, Placerville, Cal. Offsetting mechanism for sawmill-carriages	598,412	Feb. 1	600	148	82	716



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Cook, George. (See Addicks, Diedrich C., assignor.)						
Cook, George F., assignor to American Rice Food and Manufacturing Company, Maturan, N. J. Manufacturing flaked rice, &c.	598,137	Feb. 1	108	26	82	623
Cook, George W., Jr., Bloomfield, N. J. Incandescent-electric-lamp holder	613,248	Nov. 1	39	9, 10	85	625
Cook, George W., assignor to G. W. Cook, Jr., Chicago, Ill. Air-pump for bicycles	601,126	Mar. 22	2662	608	82	1779
Cook, Geraldine O., Boston, Mass. Union garment	615,632	Dec. 6	767	177 178	85	1564
Cook, Giles H., Des Moines, Iowa. Legging	608,253	Aug. 2	147	36, 37	84	683
Cook, Henry F., Sag Harbor, N. Y. Rotary brush	612,157	Oct. 11	1010	243	85	207
Cook, Horatio E., Lake City, Fla. Syringe	605,052	May 31	3305	759	83	1325
Cook, James L., Springfield, Ill. Valve	611,994	Oct. 4	702	169	85	138
Cook, John F., Leon, Iowa. Vehicle-standard	616,771	Dec. 27	2901	674	85	2030
Cook, Leeds A., Hanover, Mich. Rowing-gear	597,603	Jan. 18	1977	460	82	420
Cook, Lemuel T., Atlanta, Ind. Washboiler-strainer	611,561	Sept. 27	2615	602	84	1995
Cook, Leroy, assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire-swaging machine	604,604	May 24	2541	579 580	83	1159
Cook, Nathan P., and W. A. Whitfield, Monroe, La. Cultivator and harrow	599,165	Feb. 15	1868	442	82	990
Cook, Oren F., San José, Cal. Means for lubricating shaft-bearings	603,260	May 3	29	7	83	606
Cook Rotary Engine Company. (See Cook, Daniel B., assignor.)						
Cook, Samuel L., Jacksonville, Fla. Fireplace-grate	604,909	May 31	3160	727	83	1297
Cook, Thomas W. G. (See Stern and Cook.)						
Cook, Walter T., Framingham, Mass. Gutter-cleaner	596,694	Jan. 4	428	96, 97	82	84
Cook, Walter T., Blue Hill, Mass. Snow-plow	596,740	Jan. 4	508	116	82	98
Cook, William E., Ogdensburg, N. Y. Match-machine	611,562	Sept. 27	2615	603	84	1995
Cook, William E., Ogdensburg, N. Y. Match-machine	613,496	Nov. 1	516	117	85	714
Cook, William F., Des Moines, Iowa. Brick-kiln	613,664	Nov. 8	778	178	85	785
Cook, William H., Ironwood, Mich. Collapsible and adjustable bicycle-handle	604,371	May 24	2117	475	83	1081
Cook, William H., Winfred, S. D., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker	603,593	May 3	633	141	83	724
Cooke, Albert. (See Mooers, Henry C., assignor.)						
Cooke, Charles L. (See Cooke, George E. and C. L.)						
Cooke, George E. and C. L., Clarksville, Tenn. Safety attachment for elevators	610,642	Sept. 13	914	210	84	1633
Cooke Locomotive and Machine Company. (See Murphy, John F., assignor.)						
Coolidge, Charles W. (See Frost, Souers, and Coolidge.)						
Cooley, Joe H., Paris, Tex. Elevated electric car-line	604,729	May 31	2773	634	83	1222
Cooley, John F., assignor of one-half to W. R. Gray, Rochester, N. Y. Kite	606,622	June 28	2946	683	83	1972
Coolidge, Charles S., assignor of one-half to W. W. Edge, Troy, Ohio. Package-holder for cycles	599,119	Feb. 15	1787	426	82	976
Coolidge, Charles S., assignor of one-half to W. W. Edge, Troy, Ohio. Luggage-carrier	599,120	Feb. 15	1788	426	82	976
Coombs, Robert W., McCanna, assignor of one-half to O. H. Phillips, Larimore, N. D. Grain-harvester	597,635	Jan. 18	2026	473	82	429
Coombs, Thomas P., Peabody, Mass., assignor to Vaughn Machine Company, Portland, Me. Leather-dressing machine	599,928	Mar. 1	475	107 108	82	1303
Coombs, William E., San José, Cal. Device for folding toilet-paper	602,595	Apr. 19	1732	394	83	357
Coon, Clarence J., et al. (See Abbott, William O., assignor.)						
Coon, Gustavus W., Herndon, Va., assignor to H. P. Holden, Washington, D. C. Fire-extinguisher	605,857	June 21	1503	344	83	1676
Coon, John D., Nathrop, Colo. Breech-loading firearm	603,218	Apr. 26	2804	641	83	578
Coon, Lewis, et al. (See Rowan, James H., assignor.)						
Coon, Walter S., Peoria, Ill. Corn-planter	597,827	Jan. 25	2366	553	82	509
Coon, William R., Angelica, N. Y. Rein-holder	616,525	Dec. 27	2456	568	85	1944
Coons, Alexander, Lakeview, N. J. Sash-fastener	601,948	Apr. 5	642	134	83	120
Coons, James N., New York, N. Y. Gas or liquid vending machine	614,291	Nov. 15	1885	436	85	1018
Coons, Valentine F., et al. (See Drew, John, assignor.)						
Coons, Warren E., Culpeper, Va. Index	603,892	May 10	1186	263	83	847
Cooper, Alfred W., Jumping Branch, assignor of one-half to J. H. Miller, Hinton, W. Va. Rosette-cutting bit	615,251	Dec. 6	43	10	85	1420
Cooper, Arthur S., McMinnville, Oreg. Adjustable dental rubber-dam clamp	615,808	Dec. 13	1074	252	85	1636
Cooper, Ashley R. (See Lawrence and Cooper.)						
Cooper, Box & Co. (See Wildman, George, assignor.)						
Cooper, Charles. (See Barratt, William T., assignor.)						
Cooper, Charles. (See Hurley, Daniel, assignor.)						
Cooper, Charles E. (See Nickerson, John S., assignor.)						
Cooper, Daniel M. (See Hagen and Cooper.)						
Cooper, David P., Struthers, Ohio. Woodworking-machine	603,261	May 3	30	8	83	606
Cooper, Edward W. (See Cooper, Louis and E. W.)						
Cooper, Elias F., Mount Gilead, Ohio. Combination-tool	613,759	Nov. 8	964	221	85	821
Cooper, George B., et al. (See Willatt, Norris F., assignor.)						
Cooper, George F., Xenia, Ohio. Polishing-brush	602,058	Apr. 12	810	175	83	165
Cooper, George T., assignor of one-half to H. F. Jacobs, Natick, Mass. Sanitary trap	607,983	July 26	2695	575	84	574
Cooper, Harry H., et al. (See Thayer, Julius W., assignor.)						
Cooper, Henry C. H., assignor to United States Voting Machine Company, Jamestown, N. Y. Voting-machine	614,419	Nov. 15	2133	491 492 493	85	1066
Cooper, Herbert, Jersey City, N. J., assignor of eleven-twentieths to I. Stern, New York, N. Y. Dop for diamond cutting and polishing	609,141	Aug. 16	1821	432	84	1037
Cooper, Hiram L., Flint, Mich., assignor of one-half to W. C. Wolcott. Miter-box	613,189	Oct. 25	2800	660	85	584
Cooper, Isom W., et al. (See Thayer, Julius W., assignor.)						
Cooper, John A., Adair, Iowa. Animal-trap	612,798	Oct. 18	2145	509 510	85	436
Cooper, John A., Summit, assignor of one-half to A. C. Savage, Adair, Iowa. Potato-planter	605,396	June 7	646	144 145	83	1476
Cooper, John A., assignor of one-half to A. C. Savage, Adair, Iowa. Gun-sight	607,344	July 12	1329	284	84	275
Cooper, John W., Cherry Hill, N. J. Detachable shirt-bosom	604,970	May 31	3161	727	83	1297
Cooper, Louis and E. W., Coventry, England. Sprocket-wheel	605,443	June 7	725	163	83	1493
Cooper, Martin L., Modesto, Cal. Continuous hot-air syringe and vaporizer	612,158	Oct. 11	1011	243	85	207
Cooper, Samuel L., and F. W. Keys, Yonkers, N. Y., assignors to T. Hill, Jersey City, N. J. Hoisting apparatus	614,792	Nov. 22	2799	642	85	1203
Cooper, William, Sr., Osgood, Mo. Wire-stretcher	614,420	Nov. 15	2141	493	85	1067
Cooper, William, Cincinnati, Ohio, assignor to J. B. Blood and J. Hale, Newburyport, Mass. Suspension for electric railway-motors	613,357	Nov. 1	250	56	85	665
Cooper, William U., Shell Knob, Mo. Burglar-alarm	605,779	June 14	1329	304	83	1625
Co-operative Foundry Company. (See Kennedy, Thomas R., assignor.)						
Coover, George C., Mechanicsburg, Pa. Delivery-wagon	601,125	Mar. 22	2659	607	82	1778
Copcutt, Frederick W., assignor of one-half to J. H. Raymond, Brooklyn, N. Y. Twine holder and take-up	603,129	Apr. 26	2672	606	83	553



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Cope, George W., Detroit, Mich. Molding-flask.....	596,853	Jan. 4	693	159	82	135
Cope, Henry P., Detroit, Mich. Seat for water-closets.....	604,558	May 24	2460	560	83	1142
Copeland, Ira, Newton, Mass. Method of and apparatus for cement-coating and packing nails.....	601,314	Mar. 29	3035	683 684	82	1877
Copeland, James, Rochester, N. H. Perpendicular hand-weaver.....	614,793	Nov. 22	2800	642	85	1203
Copeland, John G., Cerro Gordo, Tenn. Horse-detacher.....	599,223	Feb. 15	1954	463	82	1006
Copenhaver, Robert M., Black Rock, Ark. Fan attachment for rocking-chairs.....	604,519	May 24	2390	543	83	1129
Copland, Virginia I., Washington, D. C. Can-opening nozzle.....	609,500	Aug. 23	2495	583	84	1187
Copplantz, Cyrus, assignor to H. L. Copplantz and F. E. Cheesman, Joliet, Ill. Car-fender.....	612,021	Oct. 11	769	190	85	161
Copplantz, Hugh L., <i>et al.</i> (See Copplantz, Cyrus, assignor.)						
Copley, Albert, Topeka, Kans. Attachment for refrigerator-cars.....	612,559	Oct. 18	1708	405	85	352
Copp, David E., Woodstock, Va. Combined sprout-puller and wagon-jack.....	603,054	Apr. 26	2527	574	83	524
Coppée, Victor. (See Griffith, Kemplen, and Coppée.)						
Coppens, Peter J., Grand Rapids, Mich. Heating-stove.....	609,662	Aug. 23	2798	652	84	1244
Copperfield, James D., Philadelphia, Pa. Barrel-head.....	609,793	Aug. 20	3010	705	84	1299
Copperfield, James D., assignor of one-fourth to F. C. Righter, Philadelphia, Pa. Barrel-head.....	597,798	Jan. 25	2325	542	82	501
Coppock, Henry H., and F. W. Miller, Pleasant Hill, Ohio. Churn.....	599,598	Feb. 22	2686	628	82	1169
Corbett, Thomas W. (See Hogan, John J., assignor.)						
Corbin, Clark, Carbon Cliff, Ill. Computing-scale.....	608,441	Aug. 2	498	111	84	752
Corbin, Maria A., executrix, <i>et al.</i> (See Winter, William E., assignor.)						
Corbin, Osby L., Columbus, Ohio. Sash-fastener.....	606,448	June 28	2638	607	83	1912
Corbin, Willis P., <i>et al.</i> (See Winter, William E., assignor.)						
Corby, Charles I. (See Corby, William S. and C. I.)						
Corby, William S. and C. I., Washington, D. C. Machine for working and shaping dough.....	611,563	Sept. 27	2618	603 604	84	1996
Corcoran, Andrew J., Jersey City, N. J. Windmill.....	610,735	Sept. 13	1062	241	84	1663
Corcoran, Patrick W., Forest, Ill. Weed-cutter attachment for cultivators.....	602,430	Apr. 19	1454	329	83	307
Core, George M., Charlotte, N. C. Folding wagon-body.....	604,730	May 31	2775	634 635	83	1222
Corey, Fred B., Springfield, Mass. Steam-separator.....	606,190	June 28	2139	491	83	1813
Corey, James B., Braddock, Pa. Voting apparatus.....	607,503	July 19	1797	374	84	388
Corey, William W., Jr., St. Louis, Mo. Valve for steam-pumps.....	608,181	Aug. 2	22	6	84	658
Corker, John F. (See Donohue and Corker.)						
Corkhill, Henry R., Jr., Rochester, N. Y. Machine for refolding paper tubes.....	605,053	May 31	3305	759	83	1325
Corkran, Willis J., Hambleton, Md. Can-labeling machine.....	606,049	June 21	1871	431 432	83	1742
Corlew, Charles C., Fresno, Cal. Cuspidor-carrier.....	613,973	Nov. 8	1313	299	85	888
Corliss, William, Providence, R. I. Bicycle.....	596,695	Jan. 4	429	97	82	84
Corliss, William, Providence, R. I. Wheel-tire.....	613,060	Oct. 25	2604	617	85	545
Cormack, Mark N., New York, N. Y. Lawn-mower.....	615,680	Dec. 13	854	196 197	85	1592
Cormen, Margaret M., Roseville, Pa. Pie or cake cooler.....	602,730	Apr. 19	1975	448	83	405
Cornaille, Fernand. (See Lebrun and Cornaille.)						
Cornelius, Harold C., Chicago, Ill. Stopper for fixed washbowls.....	615,431	Dec. 6	402	96	85	1491
Cornelius, James, Ridgewood, N. J. Tablet-machine.....	603,231	Apr. 26	2837	647	83	584
Cornelius, Louis A. (See Fry, John H., assignor.)						
Cornelius, Paul, Berlin, Germany. Smoke-consuming furnace.....	613,359	Nov. 1	254	57	85	666
Cornell, Benjamin F., Chicago, Ill. Sash-fastener.....	598,696	Feb. 8	1084	261	82	825
Cornell, C. C., <i>et al.</i> (See Weinhart, Theodore, assignor.)						
Cornell, Chauncey A., and E. S. Robison, Pittsfield, Mass. Winding-machine.....	601,495	Mar. 29	3332	754	82	1934
Cornell, Evan W., Adrian, Mich. Foot-rest for radiators.....	597,049	Jan. 11	1038	245	82	218
Cornell, Evan W., Adrian, Mich. Can-labeling machine.....	612,825	Oct. 25	2206	523 524	85	467
Cornell, Evan W., Adrian, Mich. Machine for making fence-stays.....	613,358	Nov. 1	252	56	85	666
Cornell, Evan W., Adrian, Mich. Stay for wire fences.....	615,965	Dec. 13	1359	318	85	1690
Cornell & Knapp Company. (See Knapp and Blackstone, assignors.)						
Cornell, Lewis T., assignor to Parkhurst & Wilkinson, Chicago, Ill. Pedal.....	611,355	Sept. 27	2219	513	84	1921
Cornell, Oliver H. P., Harrisonburg, Va. Barrel.....	615,530	Dec. 6	585	134	85	1525
Corning, Gardner, assignor to Briquette Coal Company, New York, N. Y. Manufacturing artificial fuel.....	613,497	Nov. 1	519		85	714
Cornish & Co. (See Florey, Alvin F., assignor.)						
Cornish, Edwin S., Liverpool, England. Sounding apparatus.....	614,162	Nov. 15	1641	377	85	973
Cornwall, George R., Port Chester, N. Y. Intaglio printing.....	607,915	July 26	2578		84	552
Cornwall, George R., Port Chester, N. Y. Printing-machine.....	614,090	Nov. 15	1513	346 347	85	949
Cornwall, John B., assignor to Barnard & Leas Manufacturing Company, Moline, Ill. Packing-auger.....	604,971	May 31	3162	728	83	1298
Cornwell, Isaac, Northumberland, Pa. Fifth-wheel.....	610,643	Sept. 13	916	210	84	1634
Cornwell, Richard W. (See Torney, John H., assignor.)						
Corrao, Charles G. (See Blaser, Emanuel, assignor.)						
Corrington, Murray, New York, N. Y. Fluid-pressure railway-brake.....	596,574	Jan. 4	201	45	82	40
Corrington, Murray, New York, N. Y. Air-brake.....	606,708	July 5	132	28	84	28
Corrington, Murray, New York, N. Y. Air-brake.....	608,030	July 26	2804	596	84	598
Corrington, Murray, New York, N. Y. Air-brake.....	616,288	Dec. 20	1992	464	85	1834
Corron, César, Lyons, France. Apparatus for dyeing, &c.....	607,834	July 26	2420	513 514	84	523
Corry, Michael. (See Barker and Corry.)						
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Lock-hinge.....	598,215	Feb. 1	258	57	82	651
Corscaden, Thomas, New Britain, Conn., assignor to American Pulley Company, Philadelphia, Pa. Pulley-hub.....	612,022	Oct. 11	770	190	85	161
Corser, Edson J., Macedon, N. Y. Grain-drill.....	604,024	May 17	1459	327	83	934
Corser, John B., Allentown, Pa. Folding table or seat.....	597,604	Jan. 18	1978	460 461	82	420
Corson, William P., Salem, Mass. Shade and curtain-pole bracket.....	614,201	Nov. 15	1705	391	85	986
Cortis, Dwight T. (See Cortis, Frank A., assignor.)						
Cortis, Frank A., Meriden, Conn., assignor of one-half to D. T. Cortis, Boston, Mass. Welsbach lamp.....	610,473	Sept. 6	620	139	84	1557
Cortis, Frank A., Meriden, Conn., assignor of one-half to D. T. Cortis, Boston, Mass. Lamp.....	613,648	Nov. 1	752	173	85	759
Corwin, John C., Tacoma, Wash. Cargo-trimmer.....	601,496	Mar. 29	3335	755	82	1935
Corwin, Theodore L., Homer, N. Y. Bicycle checking and securing frame.....	612,195	Oct. 11	1063	255	85	217
Corwin, William S. (See Tucker and Corwin.)						
Cory, Charles, <i>et al.</i> (See Wood, Frank W., assignor.)						
Cory, Isaac, New Decatur, Ala. Duplex pencil-sharpener.....	604,731	May 31	2776	635	83	1223
Cory, John M., <i>et al.</i> (See Wood, Frank W., assignor.)						
Cory, William A., Leavenworth, Kans. Railway turn-table.....	616,080	Dec. 20	1574	367	85	1750



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Coryell, John R., San Francisco, Cal. Antifriction-bearing .....	597,175	Jan. 11	1251	294	82	260
Cosby, Hogan D. (See Stanley, Frederick P., assignor.) .....						
Cossor, Frank, assignor to S. Maw, Son & Thompson, London, England. Clinical thermometer .....	613,190	Oct. 25	2801	661	85	585
Costello, John E., Providence, R. I. Letter-box .....	613,795	Nov. 8	1032	234	85	833
Costello, Joseph A., Cleveland, Ohio. Nut-tapping machine .....	606,645	July 5	15	3	84	5
Cothias, Francis A., Ivry-Port, France. Alloy. (Reissue) .....	11,660	Apr. 19	2130		83	436
Cotner, David R., Bardwell, Ky. Combined reading, writing, and music stand .....	611,446	Sept. 27	2400	551	84	1953
Cotner, David R., assignor of one-half to D. K. Layton, Bardwell, Ky. Ice-tongs .....	597,958	Jan. 25	2588	605	82	552
Cotten, Herbert M. (See Boasso, Eugene D., assignor.) .....						
Cotter, John F., and J. Tager, Kansas City, Mo. Cock or faucet .....	601,634	Apr. 5	18	4	83	6
Cottier, Robert G., Los Angeles, Cal. Harness-loop .....	600,478	Mar. 8	1556	358	82	1535
Cottle, Henry F., Boston, Mass. assignor of two-thirds to W. Calver, Washington, D. C., and J. J. Pratt, Revere, Mass. Apparatus for storing and using solar heat .....	608,755	Aug. 9	1046	240	84	880
Cottle, Kimball H., and E. C. Danly, assignors to F. B. Redington, Chicago, Ill. Sand-blast .....	604,559	May 21	2461	560	83	1142
Cottle, Thomas M., Axtell, Tex. Railway-gate .....	615,681	Dec. 13	855	197	85	1598
Cotton, C. E. (See Tubbs, George W., assignor.) .....						
Cotton, Frank A. (See Bradley and Cotton.) .....						
Cottrell, Charles P. (See Cottrell, Edgar H. and C. P.) .....						
Cottrell, Charles P., assignor to C. B. Cottrell & Sons Company, Stonington, Conn. Printing-machine .....	614,243	Nov. 15	1808	417	85	1003
Cottrell, Edgar H. and C. P., Stonington, Conn., assignors to C. B. Cottrell & Sons Company, Stonington, Conn., and New York, N. Y. Machine for cutting and folding paper.}	604,004	May 10	1415	{ 316 317 318 }	{ 83 83 83 }	896
Cottrell, Herbert, assignor to L. A. Sayre & Co., Newark, N. J. Saw-set .....	616,406	Dec. 20	2216	517	85	1877
Cottrell, Herbert, Newark, and H. C. Condit, Madison, N. J.; said Cottrell assignor to said Condit. Bicycle-coupling .....	616,407	Dec. 20	2217	517	85	1877
Cottrelly, Ernestine, New Rochelle, N. Y. Bicycle-skirt .....	610,032	Aug. 30	3438	796	84	1384
Cotzhausen, Alfred von. (See Hantke, Ernst, assignor.) .....						
Couch, Charles A., Chicago, Ill. Locomotive .....	610,856	Sept. 13	1285	296	84	1709
Couch, Lizzie, Forrester, Tex. Meat-hanger .....	609,414	Aug. 23	2325	549	81	1156
Coudert, Frederic R., Jr., administrator. (See Villon, Aime M.) .....						
Coughlan, Thomas, Chicago, Ill. Jack-screw .....	611,832	Oct. 4	421	100	85	84
Coughlin, Edward W., Baltimore, Md. Railway switch-box .....	607,916	July 26	2580	547	84	553
Coughlin, Edward W., Baltimore, Md. Railway-switch .....	607,917	July 26	2581	547	84	553
Coulbourn, William R., and J. J. Lankford, Roanoke, Va. Nipple for nursing-bottles .....	609,415	Aug. 23	2326	549	84	1156
Coulson, George A., and J. McCaw, Brockville, Canada. Counter-stool for stores .....	602,210	Apr. 12	1084	237	83	218
Coulson, William A., Moss Point, Miss. Sash-fastener .....	602,731	Apr. 19	1976	{ 448 449 }	{ 83 83 }	405
Coulson, William A., Moss Point, Miss. Combination-tool .....	613,665	Nov. 8	780	178	85	786
Coulston, Earl V., Royersford, Pa. Hot-air radiator .....	608,360	Aug. 2	345	75	84	724
Coulston, Earl V., Royersford, Pa. Combined draft-regulator, damper, and ventilator .....	613,835	Nov. 8	1091	248	85	844
Coultas, James W., Chicago, Ill. Stand or chair base .....	603,677	May 10	796	175	83	772
Coulter, Arthur W., London, England. Brush .....	602,431	Apr. 19	1454	330	83	307
Coulter, W. S. (See House, James A., assignor.) .....						
Coulter, William, Manchester, England, assignor to Birmingham Iron Foundry, Derby, Conn. Calender for running out sheet india-rubber .....	616,434	Dec. 20	2264	528	85	1888
Coulter, William J., Chesley, Canada. Clothes-drier .....	612,309	Oct. 11	1274	306	85	256
Coumbary, Alexander. (See Alexandroff, Warsawophy, assignor.) .....						
Council, G. G. (See Paulen, Jacob W., assignor.) .....						
Countiss, Edmund W. (See Countiss, James H. and E. W.) .....						
Countiss, James H. and E. W., Camden, N. J. Ash-sifter .....	603,893	May 10	1188	268	83	847
Coupal, Peter A. (See Gordon and Coupal.) .....						
Coupal, Peter A., Boston, Mass. Staple making and driving machine .....	610,320	Sept. 6	345	74	84	1508
Coupal, Prosper, assignor of one-half to J. L. Leclaire and P. Legris, Bourbonnais, Ill. Gate .....	607,682	July 19	2118	444	84	446
Coupe, Richard H. (See Sargent, Coupe, and Walker.) .....						
Couper, James C. (See Greenleaf, Latham W., assignor.) .....						
Couper, James H. (See Bryan and Couper.) .....						
Couper, James H., assignor to Bryan Manufacturing Company, Baltimore, Md. Acetylene-gas generator .....	605,397	June 7	650	{ 145 146 }	{ 83 83 }	1477
Couper, James H., and T. A. Bryan, Baltimore, Md. Acetylene-gas generator .....	605,398	June 7	652	146	83	1477
Couper, James H., and T. A. Bryan, Baltimore, Md. Acetylene-gas generator. (Reissue) .....	11,701	Nov. 8	1473	333	85	921
Couper, William P., Washington, D. C. Fountain-pen .....	602,829	Apr. 26	2158	489	83	455
Courser, James, assignor of one-half to C. F. Allen, Haverhill, Mass. Nailing-jack .....	599,994	Mar. 1	579	133	82	1322
Court, John S., Memphis, Tenn. End-gate fastening .....	603,894	May 10	1190	269	83	847
Court, John W., New York, N. Y. Fish-scaler .....	615,432	Dec. 6	403	96	85	1491
Courtenay, William, New York, N. Y. Artificial stone .....	608,756	Aug. 9	1048	240	84	881
Courtice, James L., and J. Wood, London, England. Pianoforte .....	598,363	Feb. 1	500	{ 122 123 }	{ 82 82 }	698
Courtney, Cyrus W., Doniphan, Idaho, assignor to C. K. Henkelman, Baltimore, Md. Puzzle .....	609,083	Aug. 16	1701	405	84	1016
Courtney, John C., assignor of one-half to F. Plumb, Streator, Ill. Corn-planter .....	611,356	Sept. 27	2221	{ 513 514 }	{ 84 84 }	1921
Courtney, Joseph M. (See Lewis and Courtney.) .....						
Courtwright, Edgar, Tacoma, Wash. Bicycle-driving-gear .....	616,408	Dec. 20	2219	518	85	1878
Cousens, Alfred C., Newark, N. J., assignor of one-half to G. W. Gregory and J. C. Edwards, Boston, Mass. Tension-regulator for electrical transmission of speech .....	609,877	Aug. 30	3151	736	84	1328
Cousin, Henri, Paris, France. Apparatus for manufacturing acetylene gas .....	604,229	May 17	1836	411	83	1007
Cousins, Cordy F. (See Rentschler, George A., assignor.) .....						
Cousins, James, Jr. (See Neu, Louis J., assignor.) .....						
Cousins, James J., San Francisco, Cal. Floating dock .....	601,431	Mar. 29	3225	727	82	1913
Cousy, Constant E., New York, N. Y. Pencil holder and sharpener .....	608,182	Aug. 2	25	6	84	659
Couzineau, Henri E. (See Quennoy, Etienne, assignor.) .....						
Couzineau, Henri E., Lille, France. Machine for superposing cloths .....	604,605	May 24	2543	580	83	1159
Covel, Benjamin F., Fall River, Mass. Elevator .....	599,768	Mar. 1	166	40	82	1247
Covert, Elizabeth. (See Mason, Virgil A., assignor.) .....						
Covert, Enoch. (See Grant, Emmett C., assignor.) .....						
Covert, James C., Watervliet, N. Y. Lifting-jack .....	615,433	Dec. 6	404	96	85	1491
Covert, James C., Watervliet, N. Y. Lifting-jack .....	615,809	Dec. 13	1077	252	85	1636
Covington, Julius W., Cheraw, S. C. Fertilizer-distributer .....	613,498	Nov. 1	519	117	85	714
Cowan, Robert. (See West and Cowan.) .....						
Cowan, William E., Brooklyn, N. Y. Conduit-wiring machine .....	603,623	May 10	703	157	83	753
Cowden, Thomas V., assignor to C. A. Plucker, Philadelphia, Pa. Tandem attachment for bicycles .....	605,699	June 14	1177	271	83	1597
Cowen, Martin, Bellaire, Ohio. Calendar .....	601,949	Apr. 5	643	134	83	120



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Cowen, Robert, Cambridge, assignor to Boston Woven Hose and Rubber Company, Boston, Mass. Pneumatic tire	596,741	Jan. 4	510	117	82	99
Cowen, Robert, Cambridge, assignor to Boston Woven Hose and Rubber Company, Boston, Mass. Vehicle-tire	611,375	Sept. 27	2270	524	84	1930
Cowgill, Elisha L., Fillmore, Ind. Wire-fastener	611,105	Sept. 20	1734	398	84	1811
Cowham, William F. (See Belden, Eugene H., assignor.)						
Cowin, Frederick, Chicago, Ill., assignor to Anglo-American Provision Company, of Illinois. Hog conveyer, elevator, and throw-out for scalding-tanks	613,191	Oct. 25	2802	661	85	585
Cowles, Albert, Des Moines, assignor to H. A. Shanklin, J. W. Lamb, Toledo, Iowa, and L. M. Seeley, of Iowa. Geometrical block	600,610	Mar. 15	1805	414	82	1602
Cowles, Arthur B., Rochester, N. Y., assignor to Standard Lithographing Company of the City of New York, of New York. Box	610,474	Sept. 6	622	139 140	84	1557
Cowles, Arthur B., and F. S. Reynolds, Rochester, N. Y. Label-affixing machine	604,855	May 31	2976	682 683	83	1260
Cowles, Frederick L. (See Jones, Charles B., assignor.)						
Cowles, Lucian A., Randolph, Mass. Trolley-replacer for electric railways	615,966	Dec. 13	1361	318	85	1690
Cowles, Royal M., and C. Clemson, Manchester, Conn. Baby-jumper	616,697	Dec. 27	2780	646	85	2005
Cowles, William B., Cleveland, Ohio. Hydraulic mechanism for closing bulkhead-doors	605,399	June 7	654	146 147	83	1477
Cowles, William B., assignor to "Long Arm" System Company, Cleveland, Ohio. Hydraulic system for operating reciprocating mechanism	608,838	Aug. 9	1227	286 287	84	911
Cowley, Edwin F. (See Steinacker and Cowley.)						
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	608,576	Aug. 9	723	165	84	819
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	608,577	Aug. 9	724	166 167	84	819
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	608,578	Aug. 9	728	167	84	820
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	608,579	Aug. 9	730	168	84	820
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	608,580	Aug. 9	733	168	84	821
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	608,581	Aug. 9	735	168 169	84	821
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cable-carrier	608,954	Aug. 9	1443	342	84	952
Cowley, William A., Benicia, assignor to Baker & Hamilton, San Francisco, Cal. Dumping-vehicle	609,182	Aug. 16	1891	450	84	1049
Cowper-Coles, Sherard O., assignor to Reflector Syndicate, Limited, London, England. Manufacture of reflectors	602,306	Apr. 12	1246	274	83	251
Cowper, Hugh B., Montreal, Canada. Game	613,192	Oct. 25	2804	662	85	585
Cowper, John B., Lynbrook, N. Y. Means for raising or lowering centerboards	613,409	Nov. 1	359	82	85	684
Cox, Alfred J., and F. D. Link, Worcester, Mass. Spool	599,035	Feb. 15	1658	391	82	953
Cox, Andrew L., and B. F. Rider, Crothersville, Ind. Lap-robe holder	612,826	Oct. 25	2209	524	85	467
Cox, Carey S., Fresno, assignor of one-half to Phoenix Raisin Seeding and Packing Company, Fresno county, Cal. Raisin-seeder	608,108	July 26	2917	624 625	84	621
Cox, Cary S., assignor to L. L. Gray, Fresno and Phoenix Raisin Seeding and Packing Company, Fresno county, Cal. Raisin-seeder	602,698	Apr. 19	1924	437	83	394
Cox, Charles B., New York, N. Y. Self-locking clutch for elevators, &c	610,857	Sept. 13	1287	297	84	1710
Cox, Charles F., Bridgeton, N. J. Glass-melting furnace	612,233	Oct. 11	1130	271	85	231
Cox, G. W., et al. (See Hudgepeth, James L., assignor.)						
Cox, Henry M., Linden, assignor to International Automatic Car Coupler Company, San Joaquin county, Cal. Car-coupling	603,176	Apr. 26	2740	624	83	566
Cox, J. Harry, et al. (See Luce, Thomas C., assignor.)						
Cox, Joseph L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Rotary flat-bed press	601,497	Mar. 29	3337	755 756	82	1935
Cox, Lewis J., Terre Haute, Ind. Metallic truck-frame	597,839	Jan. 25	2391	557	82	515
Cox, Paul F., assignor to Cox Type Setting Machine Company, Chicago, Ill. Belt-making machine	600,359	Mar. 8	1352	309 310	82	1497
Cox, Paul F., assignor to Cox Type Setting Machine Company, Chicago, Ill. Type-setting machine	601,498	Mar. 29	3341	757 758	82	1936
Cox, Paul F., assignor to Cox Type Setting Machine Company, Chicago, Ill. Machine for discarding leads, spaces, and quads from dead-matter	604,305	May 17	1977	443 444 445	83	1034
Cox, Samuel A., et al. (See Moore, Llewellyn C., assignor.)						
Cox, Thomas J., Mobile, Ala. Vehicle	615,531	Dec. 6	586	134	85	1526
Cox Type Setting Machine Company. (See Cox, Paul F., assignor.)						
Cox, Wiley O., et al. (See Wolfe, Thomas, assignor.)						
Cox, William N. (See Cobb, Edward H., assignor.)						
Coxwell, Herrett I. (See Coxwell, John D., assignor.)						
Coxwell, John D., assignor to H. I. Coxwell, Augusta, Ga. Hay-press	605,080	June 7	22	6	83	1357
Coy, Commodore P., Fort Wayne, Ind. Display-cover for barrels, &c	600,574	Mar. 15	1752	400	82	1592
Coy, David S., Boston, Mass. Automatic liquid-measuring device	599,688	Mar. 1	19	5	82	1220
Coyle, Alfred H. (See George, Turnbull, and Coyle.)						
Coyle, John. (See Krieger and Coyle.)						
Coyle, Robert, assignor to E. C. Atkins, Indianapolis, Ind. Rotary plow	612,827	Oct. 25	2211	524 727	85	467
Coyne, John, Pittsburg, Pa. Method of and apparatus for manufacturing gas	601,432	Mar. 29	3227	728 729	82	1913
Coyner, David G., Lyndon, Ohio. Combined harvester and thresher	598,558	Feb. 8	841	201	82	780
Coze, André, Rheims, France. Apparatus for charging inclined gas-retorts	613,854	Nov. 8	1123	256	85	850
Cozens, Ella M. (See Trott, George V., assignor.)						
Cozens, Ezra A., Toledo, Ohio. Pneumatic motor for bicycles	597,394	Jan. 18	1623	378	82	350
Cozine, Charles G., assignor of two-thirds to J. C. Vanarsdell, Lawrenceburg, and J. J. C. Bond, Harrodsburg, Ky. Cattle-guard	610,430	Sept. 6	544	119 120	84	1543
Cozzens, William B., New York, N. Y. Photographic developing apparatus	615,143	Nov. 29	3477	797	85	1349
Cozzino, Harriette G., New York, N. Y. Hat-support for theater-chairs	597,266	Jan. 11	1395	326	82	287
Crabtree, John, Bracebridge, assignor of one-half to R. Morris, Doncaster, England. Mechanical signal-indicator for use on railway locomotive-engines	610,386	Sept. 6	476	104	84	1530
Craddock, Thomas, Providence, R. I. Nut-lock	598,302	Feb. 1	415	98	82	680
Crahen, Patrick H. (See Holcomb, Clifford A., assignor.)						
Craig, Alexander, Coventry, and C. T. Austen, London, England. Bicycle-wheel-assembling machine	616,081	Dec. 20	1576	367 368	85	1750
Craig, David, Melrose, Mass. Pump	608,361	Aug. 2	346	75	84	724
Craig, George, Glasgow, Scotland. Apparatus for recovering cyanids from furnace-gases	600,137	Mar. 8	991	221	82	1428



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Craig, James. (See Brogan, Malloch, and Craig.)						
Craig, James, and F. F. Slocumb, Wilmington, Del. Leather-staking machine	604,560	May 24	2462	560 561	83	1143
Craig, Joseph W., Paulding, Ohio. Washing-machine	607,424	July 19	1485	316	84	320
Craig, Lee D., San Francisco, Cal. Supporter for cooking utensils	611,376	Sept. 27	2272	524	84	1931
Craig, Warren H., Lawrence, Mass. Bicycle-saddle	602,732	Apr. 19	1977	449	88	405
Craig, Warren H., Lawrence, Mass. Bicycle-saddle	606,124	June 21	2014	461 462	83	1770
Craig, William, Brooklyn, N. Y. Stop-valve	597,141	Jan. 11	1199	281	82	249
Craig, William S., assignor to F. G. Libke and D. H. Brunjes, Chicago, Ill. Machine for labeling cans	605,858	June 21	1504	345	83	1676
Crain, Hugh H., and J. W. Forbes, Plymouth, Cal. Quartz-mill	600,635	Mar. 15	1843	422	82	1610
Crain, Sidney I., assignor of two-thirds to S. Shillito and C. A. Irwin, Cincinnati, Ohio. Electric-arc lamp	598,697	Feb. 8	1086	261	82	825
Craley, Henry. (See Emerick and Craley.)						
Crall, Edwin, Alma Centre, Wis. Horse-boot	614,842	Nov. 29	2888	665	85	1236
Crall, John J., Chauncey, Mo. Fifth-wheel	600,305	Mar. 8	1264	288	82	1480
Crall, John J., Chauncey, Mo. Boiler-cleaner	610,703	Sept. 13	1006	234	84	1652
Cram, Alonzo W., Haverhill, Mass. Water-closet	605,780	June 14	1330	304	83	1625
Cram, William E., and J. H. L. Clegg, Boston, Mass.; said Clegg assignor to said Cram. Electric gas-lighting apparatus	599,121	Feb. 15	1789	427	82	977
Cramblitt, Frank, Baltimore, Md. Reversible window-sash	603,478	May 3	428	95	83	683
Cramer, Frederick A., and J. A. Garman, Neenah, Wis. Railway-gate mechanism	602,615	Apr. 19	1764	403	83	363
Cramer, Gustav F., Portland, Oreg. Ventilator	614,368	Nov. 15	2032	469	85	1047
Cramer, Howard, Williamsport, Pa. Magazine for firearms	610,123	Aug. 30	3580	829	84	1414
Cramer, Philipp, assignor of one-half to C. P. W. Meeske, Newark, N. J. Air-compressing machine	600,258	Mar. 8	1189	269	82	1465
Cramer, Zenas, Danube, N. Y. Tongs for stretching wires	605,081	June 7	23	7	83	1357
Crandall, Albert L., Phelps, N. Y. Thill-coupling	609,663	Aug. 23	2799	652	84	1245
Crandall, Albert L., assignor to J. S. Lee, Rochester, N. Y. Thill-coupling	602,307	Apr. 12	1249	274	83	251
Crandall, Jacob, Westport, Cal. Finger-ring twine-cutter	611,313	Sept. 27	2143	495	84	1907
Crandall, Jesse A., Brooklyn, N. Y. Combined wheel-chair and baby-carriage	601,500	Mar. 29	3345	757	82	1937
Crandall, Jesse A., assignor of one-half to W. Parker, Brooklyn, N. Y. Toy	601,499	Mar. 29	3344	757	82	1937
Crandall, Jesse A., assignor of one-half to J. Mocs, Brooklyn, N. Y. Combined hub cap and nut	604,913	May 31	3085	708	83	1282
Crandall, Jesse A., assignor of two-thirds to C. E. Hull and F. E. Caldwell, Brooklyn, N. Y. Convertible invalid-chair	597,878	Jan. 25	2451	572	82	526
Crandall, Jesse A., assignor of two-thirds to F. E. Caldwell and S. H. Simon, New York, N. Y. Convertible chair	612,988	Oct. 25	2482	591 592	85	520
Crandall, Lucien S., Birmingham, England. Driving-gear	599,689	Mar. 1	22	5, 6	82	1221
Crane, Augustus S., Newark, N. J. Button	606,277	June 28	2314	536	83	1849
Crane, Benjamin C. (See Kellerman and Crane.)						
Crane, Daniel, Seneca Falls, N. Y. Ball-bearing	611,236	Sept. 27	1991	459	84	1879
Crane Elevator Company. (See Reynolds, George H., assignor.)						
Crane, George A., Worcester, Mass. Plow	611,106	Sept. 20	1734	398	84	1811
Crane, George E., and V. H. Esch; said Esch assignor and said Crane assignor of one-third to F. A. Hopping, A. H. Beck, J. B. Burke, Washington, D. C., and W. J. H. Traynor, Detroit, Mich. Switch for street-railways	600,407	Mar. 8	1428	326 327	82	1512
Crane, Harry O., et al. (See Crane, Uzal O., assignor.)						
Crane, John R., New York, N. Y. Valve and gage for administering oxygen or other gases	598,242	Feb. 1	297	67	82	658
Crane & King Oxygen Works. (See Ring, Paul, assignor.)						
Crane, Peter B., et al. (See Shaft and Hays, assignors.)						
Crane, Richard T., Chicago, Ill. Composition disk valve	600,360	Mar. 8	1354	310	82	1497
Crane, Richard T., Chicago, Ill. Automatic elevator safety-stop	606,857	July 5	419	89, 90	84	83
Crane, Samuel W., Lafayette, Ind. Window	616,223	Dec. 20	1876	433	85	1810
Crane, Seymour, assignor of one-half to E. H. Bush, Dalton, Mass. Envelop sealing and stamping device	616,772	Dec. 27	2903	674	85	2031
Crane, Uzal O., assignor to H. O. Crane, New York, N. Y., and G. W. Judson, Jersey City, N. J. Bottle	607,345	July 12	1331	284	84	275
Crane, Walter T. (See Davenport, George W., assignor.)						
Crane, William E. S., et al. (See Schmidt, Julius H., assignor.)						
Craney, Thomas, Bay City, Mich. Salt-making apparatus	605,082	June 7	24	7, 8	83	1357
Craney, Thomas, Bay City, Mich. Continuous centrifugal machine	615,967	Dec. 13	1362	318	85	1691
Craney, Thomas, Bay City, Mich. Apparatus for treating ores, &c	615,968	Dec. 13	1363	319	85	1691
Cranford, William J., Asheville, N. C. Tire-tightener	606,050	June 21	1876	432	83	1743
Cranor, Ottie, et al. (See Green, Casper, assignor.)						
Cranshaw, S. Dabney. (See Harlan, Howard, assignor.)						
Crary, Ned B., Canisteo, N. Y. Puzzle	607,735	July 19	2201	465	84	463
Crary, William P., Brooklyn, N. Y. Lamp	607,162	July 12	989	214	84	208
Craven, Thomas J., Salem, N. J. Packing-case	611,059	Sept. 20	1643	376	84	1792
Craw, George R. (See Studabaker, Hugh D., assignor.)						
Craw, John W., New York, N. Y. Reversing device	602,830	Apr. 26	2160	490	83	455
Craw, Joseph T., Jersey City, N. J., assignor of one-half to Brown & Bailey Company, Philadelphia, Pa. Paper plant-box	607,346	July 12	1331	285	84	275
Crawford, Albert. (See Dutton and Crawford.)						
Crawford, Alexander R. (See Crawford, William and A. R.)						
Crawford, Frank, assignor to F. B. Fargo & Company, Lake Mills, Wis. Apparatus for making and preserving records	596,484	Jan. 4	30	8	82	8
Crawford, George H., et al. (See Lockwood, Charles, assignor.)						
Crawford, Henry C., et al. (See Lockwood, Charles, assignor.)						
Crawford, James, Boston, Mass. Lavatory-basin	600,138	Mar. 8	993	221	82	1428
Crawford, Joseph S., New Kensington, Pa. Bicycle-support	605,573	June 14	932	218	83	1552
Crawford, R. J. (See Campbell, Frank L., assignor.)						
Crawford, William and A. R., Glasgow, Scotland. Apparatus for automatically closing bulkhead-doors	611,833	Oct. 4	422	101	85	84
Crawford, William H., Rosemont, Pa. Device for lasting shoes	616,289	Dec. 20	1996	464	85	1834
Crawford, William I., assignor of one-half to A. Cook, St. Louis, Mo. Circuit-breaker	614,794	Nov. 22	2801	643	85	1204
Crawford, William K., assignor to A. J. Morse & Son, Boston, Mass. Diving apparatus	616,409	Dec. 20	2220	518	85	1878
Crawley, Edwin, Jr., and W. T. Johnston, Newport, Ky., assignors to Potter-Parlin Company, New York, N. Y. Coffee-roasting machine	615,252	Dec. 6	44	10	85	1420
Crawley, Josiah T., Honolulu, Hawaii. Toy boat	616,410	Dec. 20	2221	518	85	1878
Creal, Charles T., Edwards, Ind. Baling-press	597,103	Jan. 11	1141	270	82	239
Creamer, Addison C. (See Frost, James C., assignor.)						
Crean, Gerald J., Montreal, Canada. Magnetic ore-separator	607,984	July 26	2696	575	84	575



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Crebbin, Thomas, Bridgeport, Ala. Basket-making machine .....	604,457	May 24	2267	509 510	83	1109
Creider, Simon S. (See Korn, Isaac, assignor.)						
Creider, Simon S., assignor of one-half to I. Korn, Sterling, Ill. Husking-roll .....	613,249	Nov. 1	40	10	85	625
Creighton, Theodore, Dunkirk, Ind. Smoke-shade, smoke-bell, &c .....	612,582	Oct. 18	1744	413	85	358
Cressman, Charles N. (See Berkemeyer, Ferdinand, assignor.)						
Cresson, Irving D., Crown Point, Ind. Bedclothes-holder .....	603,553	May 3	573	127	83	712
Cressy, Franklin J. (See King, Charles H., assignor.)						
Creveling, John C., Espy, Pa. Knife for cutting oil-cloth .....	601,315	Mar. 29	3037	684	82	1877
Crichton, William B., Bradford, England. Steam or other fluid-pressure engine .....	604,109	May 17	1621	364 365	83	965
Criggal, John E., Newark, N. J. Wire-coiling machine .....	609,011	Aug. 16	1567	373	84	992
Criggal, John E., Newark, N. J. Electric-lamp socket .....	612,560	Oct. 18	1710	406	85	352
Criggal, John E., Newark, N. J. Molding-machine .....	614,843	Nov. 29	2889	665	85	1236
Crigler, Julius W., Bloomington, Ill. Sash-fastener .....	612,310	Oct. 11	1275	308	85	256
Crim, Otis P., Anderson, Ind. Egg-crate .....	612,828	Oct. 25	2212	524	85	468
Crippen, Henry D. (See Jackson, Manetho C., assignor.)						
Crisler, Joseph L. (See Flesher and Crisler.)						
Crisp, Joseph E., assignor to M. E. Peirce and S. B. Crisp, Somerville, Mass. Mail-box collection and delivery .....	613,560	Nov. 1	613	142	85	733
Crisp, Sarah B., <i>et al.</i> (See Crisp, Joseph E., assignor.)						
Crispin, Joseph R. (See Borrett and Crispin.)						
Crist, Charles V., assignor to Tytus-Gardner Paper and Manufacturing Company, Mid- dletown, Ohio. Paper-bag machine .....	616,605	Dec. 27	2584	599 600 601	85	1967
Crist, Marvin B. (See Ball, Cortland, assignor.)						
Critchfield, C. W., <i>et al.</i> (See Williams, Fillmore, assignor.)						
Critchfield, Rush D., Coffeyville, assignor of one-half to J. W. Glass, Independence, Kans. Vehicle-spindle .....	609,501	Aug. 23	2495	584	84	1187
Crobarger, George T., Newton, Kans. Cultivator-shovel .....	604,205	May 17	1800	405	83	1000
Crockatt, William. (See Kincaid and Crockatt.)						
Crocker, Eben C., assignor of one-half to E. C. Howe, Bridgeport, Conn. Electric rail- way .....	597,799	Jan. 25	2326	542 543	82	502
Crocker, Eben C., assignor of one-half to E. C. Howe, Bridgeport, Conn. Electric rail- way .....	603,624	May 10	705	157 158	83	754
Crocker, Eben C., and E. C. Howe, Bridgeport, Conn. Electric railway .....	603,625	May 10	707	158	83	754
Crocker, Edward E., McKenzie, Tenn. Bicycle handle-bar .....	603,177	Apr. 26	2742	624	83	567
Crocker, George W., Jr., Maple Valley, assignor of one-half to W. H. Tyler, Schenevus, N. Y. Combination-desk .....	612,486	Oct. 18	1579	377	85	228
Crocker-Wheeler Electric Company. (See Dunn, Gano S., assignor.)						
Crockett, William W., Falls City, Nebr. Lawn-mower .....	605,176	June 7	212	52	83	1391
Crockett, William W., Falls City, Nebr. Cutter and holder for fruit, flowers, &c .....	605,400	June 7	665	147	83	1480
Crockford, Alfred H., Dartford, England. Fluid-pressure engine .....	615,810	Dec. 13	1078	253	85	1636
Crofoot, Louis W., and F. E. Granger, Aberdeen, S. D. Electrical selector .....	602,895	Apr. 26	2252	513	83	472
Croft, George H. (See Talen and Croft.)						
Croftan, Alfred C., Chicago, Ill. Making plates for electric-battery purposes .....	603,499	May 3	474	105	83	692
Cromer, Franklin M., Dayton, Ohio. Tire-tightener .....	600,611	Mar. 15	1806	414	82	1602
Cromer, Henry M., Anderson, S. C. Wagon-axle bearing .....	599,166	Feb. 15	1869	443	82	990
Crompton, Charles. (See Wyman and Crompton.)						
Crompton, Charles, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms .....	599,832	Mar. 1	301	68	82	1269
Crompton Company. (See Daymont, John B., assignor.)						
Crompton Company. (See Sherry, John W., assignor.)						
Crompton & Knowles Loom Works. (See Clarkson, John W., assignor.)						
Crompton & Knowles Loom Works. (See Crompton, Charles, assignor.)						
Crompton & Knowles Loom Works. (See Crompton and Wyman, assignors.)						
Crompton & Knowles Loom Works. (See Goodline and Clark, assignors.)						
Crompton & Knowles Loom Works. (See Goodline and Wyman, assignors.)						
Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)						
Crompton & Knowles Loom Works. (See Hutchins, George F., assignor.)						
Crompton & Knowles Loom Works. (See Redding, William H., assignor.)						
Crompton & Knowles Loom Works. (See Wyman, Horace, assignor.)						
Crompton & Knowles Loom Works. (See Wyman and Crompton, assignors.)						
Crompton & Knowles Loom Works. (See Wyman and Redding, assignors.)						
Crompton Loom Works. (See Wyman and Crompton, assignors.)						
Crompton, Randolph, and H. Wyman, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., and Providence, R. I. Loom .....	600,121	Mar. 1	956	211 212 213	82	1405
Crompton, Randolph, and H. Wyman, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., and Providence, R. I. Loom .....	600,488	Mar. 8	1575	363	82	1538
Crompton, Randolph, and H. Wyman, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., and Providence, R. I. Loom .....	600,489	Mar. 8	1584	364 365	82	1541
Crompton, Randolph, and H. Wyman, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., and Providence, R. I. Loom .....	600,490	Mar. 8	1592	365 366	82	1542
Crompton, Randolph, and H. Wyman, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-changing mechanism for looms .....	614,369	Nov. 15	2033	469 470	85	1047
Crompton, Randolph, and H. Wyman, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Loom .....	615,532	Dec. 6	588	134 135	85	1526
Cronah, H. A., <i>et al.</i> (See Wilson, Robert A., assignor.)						
Cronan, James E. (See Harden, George, assignor.)						
Cronin, Edward, assignor of one-third to J. G. O'Connell, Cincinnati, Ohio. Furnace for smelting metals .....	597,460	Jan. 18	1747	403 404	82	373
Cronin, John P., Paterson, N. J. Creel-frame .....	613,760	Nov. 8	966	221	85	821
Cronk Hanger Company. (See Cronk, William, assignor.)						
Cronk, William, Montour Falls, assignor to Cronk Hanger Company, Elmira, N. Y. Pliers and staple-puller .....	597,896	Jan. 25	2479	579	82	531
Cronmiller, George, Welland, Canada. Casket-stand .....	608,442	Aug. 2	490	111	84	753
Cronstedt, Elias. (See Elgen, Magnus P., assignor.)						
Cronyn, J. L. C. (See Farrell, Michael, assignor.)						
Crook, Charles M., Elgin, assignor to C. S. Burton, trustee, Oak Park, Ill. Electric clock-train .....	610,229	Sept. 6	162	36	84	1474
Crook, Edwin E., Indianapolis, Ind. Tea or coffee pot .....	600,139	Mar. 8	993	222	82	1428
Crook, Edwin E., Indianapolis, Ind. Sad-iron .....	613,250	Nov. 1	42	10	85	625
Crook, Edwin E., Indianapolis, Ind. Tea or coffee pot .....	613,251	Nov. 1	44	11	85	625
Crook, Thomas N., York, Pa. Safety-axle .....	602,308	Apr. 12	1250	275	83	251



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Crooker, E. R. (See Crooker, George A., assignor.)						
Crooker, George A., assignor of one-half to E. R. Crooker, Crowley, La. Washboiler	611,060	Sept. 20	1644	376	84	1798
Crooker, William W., <i>et al.</i> (See Balcom, Charles, assignor.)						
Crooks, James E., assignor of one-half to C. Miller, Montevista, Colo. Photographic-printing frame	599,440	Feb. 22	2394	563	82	1115
Crooks, Robert F., Pomona, Cal. Cot	598,698	Feb. 8	1088	262	82	826
Cropp, Andrew J., Chicago, Ill. Corn cutter and shocker	607,112	July 12	895	194	84	192
Cropper, Lionel C. (See Poore, Richard, assignor.)						
Cros, Edouard, Paris, France. Indicator for railway-cars	614,700	Nov. 22	2643	602	85	1172
Crosby, Hanford T., Boston, Mass. Sole-rough-rounding machine	600,668	Mar. 15	1905	434	82	1621
Crosby, Hanford T., Boston, Mass. Sole-rounding machine	602,211	Apr. 12	1085	238	83	218
Crosby, Hanford T., Boston, Mass. Machine for channeling soles of boots or shoes	602,979	Apr. 26	2415	550	83	503
Crosby, Hanford T., Boston, Mass. Sole-channeling and flap-turning machine	602,980	Apr. 26	2417	550	83	503
Crosby, Hanford T., Boston, Mass. Sole-rough-rounding machine	607,736	July 19	2202	465 466	84	463
Crosby, Hanford T., Boston, Mass. Sole-channeling and flap-turning machine	615,015	Nov. 29	3237	743 744	85	1304
Crosby & Mayer Company. (See Melanowski, Leo, assignor.)						
Crosby, Oliver, St. Paul, Minn. Coal-chute	599,769	Mar. 1	167	40, 41	82	1247
Crosby Steam Gage and Valve Company. (See Bosworth and Millett, assignors.)						
Crosby Steam Gage and Valve Company. (See Reed, Samuel G., assignor.)						
Crosby Steam Gage and Valve Company. (See Wolfe, Frank L., assignor.)						
Crosby, William H., and T. J. Tellefsen, Buffalo, N. Y. Seat-post bracket	600,276	Mar. 8	1224	278	82	1473
Crosland, William. (See Mackenzie and Crosland.)						
Cross, Abraham, and A. C. Wrede, Houston, Tex. Tire-protector	598,559	Feb. 8	842	201	82	780
Cross, Albert H., New York, N. Y., assignor to Gamewell Auxiliary Fire Alarm Company, Boston, Mass. Thermostatic auxiliary fire-alarm system	616,082	Dec. 20	1579	368	85	1750
Cross, Anson K., Boston, Mass. Artist's easel	610,644	Sept. 13	917	210	84	1634
Cross, Charles F., E. J. Bevan, and C. Beadle, London, England. Modification of cellulose and preparing same	604,206	May 17	1801		83	1000
Cross, Frank G. (See Parker and Cross.)						
Cross, Frank L. (See Briggs and Cross.)						
Cross, Frank W., Baltimore, Md., assignor of one-half to H. F. Getz, Washington, D. C. Cotton-seed-hulling machine	600,575	Mar. 15	1753	400 401	82	1592
Cross, George W., Pittston, Pa. Screen	599,468	Feb. 22	2448	576	82	1124
Cross, George W., Pittston, Pa. Vehicle-tire	601,826	Apr. 5	384	81	83	72
Cross, James W., Fall River, Mass. Rubber safety cushion-heel for boots or shoes	613,360	Nov. 1	256	57	85	666
Cross, Parmer R., Hammond, Ind. Paper-hanging machine	611,895	Oct. 4	526	127	85	104
Cross, W. C. (See Rainey, Equieller B., assignor.)						
Cross, Washington, Roseland, La. Gate	616,054	Dec. 13	1522	356	85	1723
Cross, William D., Climax, Kans. Corn-planter	602,554	Apr. 19	1662	378	83	345
Crosser, Simon, <i>et al.</i> (See Moore, Llewellyn C., assignor.)						
Crossette, Charles H. (See Callaghan, Frank J., assignor.)						
Crossley, Eliza A. (See Crossley, William G. and E. A.)						
Crossley, William G. and E. A., Auckland, New Zealand. Vehicle-wheel	604,372	May 24	2118	476	83	1081
Crossley, William H., assignor of one-half to G. W. Mifflin, Bloomsburg, Pa. Valve for pneumatic tires	610,431	Sept. 6	546	120	84	1543
Crossley, William H., assignor of one-half to G. W. Mifflin, Bloomsburg, Pa. Bicycle-brake	612,403	Oct. 18	1433	346	85	300
Crossman, Eduard C., Allegheny, Pa. Station-indicator	610,844	Sept. 13	1260	291	84	1704
Crossman, Percy, <i>et al.</i> (See Robinson, Joseph, assignor.)						
Crossman, Robert, and J. Powell, King's Lynn, England. Saddle for velocipedes	598,858	Feb. 8	1335	323	82	873
Crosthwait, Charles O., administrator. (See Tyler, William H.)						
Crotty, John S., New York, N. Y. Garment-stay	597,815	Jan. 25	2348	548	82	506
Crouch, Edward M., Hartland, Wis. Wire-fence spacer	614,163	Nov. 15	1643	377	85	973
Crouch, Walker L., assignor to Pierce-Crouch Engine Company, New Brighton, Pa. Starting apparatus for gas-engines	596,742	Jan. 4	511	117	82	99
Crouse, Huntington B. (See Hinds, Jesse L., assignor.)						
Crouse, John N. (See Wilkens, John D., assignor.)						
Crouse, William B. (See Chubbuck, Sk L., assignor.)						
Crow, Samuel, Dunedin, New Zealand. Combination-dredge for mining for and saving gold, tin, or other metals	612,706	Oct. 18	1979	470	85	403
Crowden, Charles T., Beeston, England. Apparatus for determining cycle adjustments	600,408	Mar. 8	1430	327	82	1512
Crowden, Charles T., Leamington Spa, England. Apparatus for making tubular joints	609,734	Aug. 23	2906	680	84	1266
Crowdus, Walter A., Chicago, Ill. Automobile vehicle	598,314	Feb. 1	430	102 103 104	82	683
Crowdus, Walter A., Chicago, Ill. Secondary battery	599,315	Feb. 22	2136	507	82	1064
Crowe, Daniel V., Logansport, Ind. Combined tobacco-cutter and advertising device	615,212	Nov. 29	3637	835 836	85	1381
Crowe, Robie, Georgetown, Colo. Composition for preventing fumes in mining-powders	612,707	Oct. 18	1981	513	85	403
Crowe, William C., Masonville, Iowa. Corn-shocker	597,710	Jan. 25	2162	506	82	470
Crowell Apparatus Company. (See Crowell, Melvin E., assignor.)						
Crowell, Charles E., Stella, and M. F. Gale, San Francisco, Cal.; said Gale assignor to said Crowell. Separator and concentrator	603,319	May 3	128	30	83	626
Crowell, Charles H., Lynn, assignor to J. R. Carter, Boston, Mass. Machine for cutting cloth	607,586	July 19	1951	405	84	415
Crowell, Elisha. (See Hoover, David W., assignor.)						
Crowell, John S., Springfield, Ohio. Molding-machine for confectioners' use	601,886	Apr. 5	509	105	83	96
Crowell, John S., Springfield, Ohio. Rubber tire for vehicle-wheels	609,195	Aug. 16	1914	456	84	1054
Crowell, Luther C., New York, N. Y. Folding-machine	616,290	Dec. 20	1998	464 465	85	1834
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Means for protecting newspapers against resale	602,896	Apr. 26	2255	514	83	473
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Wrapping-machine	603,262	May 3	32	8, 9	83	606
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Wrapping-machine	603,585	May 3	619	138	83	721
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Wrapping-machine	603,602	May 3	650	145 146	83	728
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Cutting and delivery mechanism	608,582	Aug. 9	737	169 170	84	822
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Newspaper-seal	609,735	Aug. 23	2907	681	84	1266
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Wrapping-machine	610,344	Sept. 6	389	83, 84	84	1514



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Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Newspaper folding and stapling machine	612,829	Oct. 25	2213	525 526 527	85	468
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Folding and stapling machine	612,830	Oct. 25	2220	528 529 530	85	469
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	612,831	Oct. 25	2228	530 531 532 533 534	85	470
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	615,253	Dec. 6	46	11, 12	85	1421
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	615,254	Dec. 6	52	12, 13	85	1421
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	615,255	Dec. 6	55	13, 14	85	1422
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	615,256	Dec. 6	58	15, 16	85	1423
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	615,257	Dec. 6	60	16, 17	85	1424
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	615,258	Dec. 6	64	18, 19	85	1425
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Staple-binding delivery mechanism for printing-machines	615,259	Dec. 6	69	19, 20	85	1426
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Folding and wrapping machine	616,083	Dec. 20	1582	368 369 370	85	1751
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. } Wrapping-machine	616,291	Dec. 20	2003	465 466	85	1836
Crowell, Melvin E., assignor to Crowell Apparatus Company, Indianapolis, Ind. Elec- } trical apparatus for schools	603,875	May 10	1155	260 261	83	841
Crowell, William T. (See Harkness and Crowell.)						
Crowley, George G., Poughkeepsie, N. Y. Grinding-machine	611,834	Oct. 4	423	101	85	84
Crowley, George G., Poughkeepsie, N. Y. Grinding-machine	611,835	Oct. 4	426	102	85	85
Crowley, Jerry, Cokeleys, W. Va. Vehicle-coupling	601,635	Apr. 5	21	5	83	6
Crown Cork and Seal Company. (See Painter, William, assignor.)						
Crowther, David, Huddersfield, England. Solder	607,504	July 19	1799	374	84	388
Crowther, David, Huddersfield, England. Machine employed in brazing	607,505	July 19	1801	375	84	388
Crowther, David, Huddersfield, England. Rubber tire	609,794	Aug. 30	3012	705	84	1300
Crowther, Joseph. (See Richmond and Crowther.)						
Crozier, William, U. S. Army. Disappearing-gun mounting	613,252	Nov. 1	45	11	85	625
Crudginton, James F., assignor to Armstrong Manufacturing Company, Bridgeport, } Conn. Hand pipe and bolt threading machine	596,983	Jan. 11	925	218 219	82	196
Cruickshank, James. (See Smith, Rudolph C., assignor.)						
Crum, Harry L. (See Durbin and Crum.)						
Crumbaker, Fred R., Mendon, assignor of one-half to H. D. Cushman, Three Rivers, } Mich. Steam vacuum-pump	602,498	Apr. 19	1564	356	83	327
Crumley, E. S., et al. (See Mason, William R., assignor.)						
Crump, John M., South Prairie, Wash. Spoke-grip	611,564	Sept. 27	2621	604	84	1996
Crumrine, John L., and S. R. Skov, assignors to Dörner Truck and Manufacturing Com- } pany, Cleveland, Ohio. Car-truck	613,443	Nov. 1	419	96	85	696
Cruse, Thomas, Helena, Mont. Quartz-mill	613,193	Oct. 25	2805	662	85	585
Crusius, Louis, Kaiserslautern, Germany. Steam-boiler	599,141	Feb. 15	1825	433	82	983
Cruz, Alphonse, Paris, France. Lubricating apparatus	602,155	Apr. 12	994	217	83	200
Cruzan, Edward. (See Dunlop and Cruzan.)						
Cruzan, Isaac, Decatur, Ill. End-gate	601,433	Mar. 29	3231	729	82	1914
Cruzan, Newton A., Decatur, Ill. Shovel-board	601,636	Apr. 5	22	5	83	6
Cruzen, Elmor E., Baltimore, Md. Electric heater	598,303	Feb. 1	416	98	82	681
Cryer, Arthur, and E. C. Newby, Cardiff, England. Excavating machinery	602,309	Apr. 12	1251	275 276	83	252
Crystal, Moses. (See Krellenstein, Bernard, assignor.)						
Cubbedge, Laurence L., Guyton, Ga. Automatic alarm for protecting crops, &c.	606,517	June 28	2741	633	83	1933
Cubbison, Frank E., assignor of two-thirds to A. H. Conger and W. H. Fuller, Los Ange- } les, Cal. Popped-corn-disk-forming machine	612,311	Oct. 11	1276	308	85	256
Cuckson, Fredrick C., Malone, N. Y. Safety-envelope	608,583	Aug. 9	743	171	84	822
Cudaback, Clinton G., et al. (See Washburn and Cudaback, assignors.)						
Cudaback, Edgar L. (See Washburn and Cudaback.)						
Cudahy Packing Company. (See Cameron and Carraway, assignors.)						
Cudey, Albert L., Brosville, France. Elastic wheel-tire	603,726	May 10	874	194	83	787
Culbertson, Andrew J., assignor to J. W. Strough, San Andreas, and E. L. Burns, Co- } ronto-Gargadennes, Cal. Pneumatic propelling means for vessels	608,757	Aug. 9	1050	240	84	881
Culbreath, Thomas S., Antrim, Kans. Threshing-machine	606,125	June 21	2017	462	83	1771
Cullen, John M., Chicago, Ill. Nut-lock	609,084	Aug. 16	1702	405	84	1016
Cullinan, Joseph S., Washington, Pa. Gas and oil separator	611,314	Sept. 27	2144	495	84	1907
Cullison, Jacob E., Milwaukee, Wis. Filter	616,224	Dec. 20	1878	433	85	1811
Cullum, Richard H., St. Paul, Minn. Gasometer	612,516	Oct. 18	1618	386	85	335
Culmann, Eduard. (See Alt and Culmann.)						
Culter, Richard A., Peoria, Ill. Heating-stove	610,260	Sept. 6	214	48	84	1484
Culver, Clarence E., Cashton, Wis. Grain-separating machine	610,432	Sept. 6	548	120	84	1543
Culver, Ellis, Huntington, Ind. Strainer and filter for conductor-pipes	603,554	May 3	574	127	83	712
Culver, Fitz E., Chicago, Ill. Electric igniter for gas-engines	599,316	Feb. 22	2138	507	82	1064
Culver, Fitz E., Chicago, Ill. Gas-engine	601,012	Mar. 22	2486	565	82	1744
Culver, Frederick S., Taunton, Mass. Ring and traveler for spinning-machines	597,176	Jan. 11	1256	294	82	261
Culver, Frederick S., Taunton, Mass. Adjustable roll-frame for spinning-machines	607,635	July 19	2041	423	84	433
Culver, Lewis F., Harvey, Ill. Steam-cooker	601,501	Mar. 29	3346	757 758	82	1937
Culveyhouse, William, and E. S. Anderson, Dover, Del. Composition for stopping leaks } in cycle-tires	599,317	Feb. 22	2140		82	1064
Cumberland Iron and Steel Shafting Company. (See Muncaster, Walter J., assignor.)						
Cummings, Amos J., et al., trustees. (See Cahill, Thaddeus, assignor.)						
Cummings, Charles, Oakland, assignor to Pneumatic Power Company, San Francisco, } Cal. Governor for air-compressors	603,425	May 3	314	71	83	660
Cummings, Edward N., Lynn, Mass. Toilet-paper	598,315	Feb. 1	435	104	82	684
Cummings, Everett A., Belgrade Mills, Me. Snap-hook	615,345	Dec. 6	230	55	85	1458



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Cummings, George W. (See Thomas and Hamilton, assignors.)						
Cummings, Harry H., Dobbs Ferry, N. Y. Stone-sawing machine.....	601,789	Apr. 5	320	$\left\{ \begin{array}{l} 63 \\ 64 \\ 65 \end{array} \right\}$	$\left\{ \begin{array}{l} 83 \\ 84 \\ 85 \end{array} \right\}$	61
Cummings, Melroy E. (See Campbell and Cummings.)						
Cummings, Peter, and M. Wankerl, Canajoharie, N. Y. Garment-hanger.....	601,502	Mar. 29	3349	758	82	1938
Cummings, Wilbur E., Los Angeles, Cal. Shoe-salesman's foot-rest.....	615,058	Nov. 29	3331	765	85	1322
Cummings, William E., Orange, N. J. Hat-finishing machine.....	607,653	July 19	2077	433	84	438
Cummins, Charles E., Hastings, Iowa. Fence-wire winder.....	598,138	Feb. 1	109	26	82	623
Cummins, Emsley H., Bluffton, Ind. Wrapper-covering.....	606,332	June 28	2427	561	83	1871
Cummins, J. W. (See Sisson, Fred, assignor.)						
Cummins, John W., assignor of one-half to O. J. Brown, Hamilton, Canada. Reclining, folding, and table chair.....	614,370	Nov. 15	2038	470	85	1048
Cunderman, Henry, Brookfield, Wis. Gage-alarm.....	600,244	Mar. 8	1161	264	82	1461
Cundiff, Jacob H., assignor to Iowa Fence Company, Union, Iowa. Fence-weaving machine.....	614,701	Nov. 22	2644	602	85	1172
Cunneen, John T., Fall River, Mass. Roving-frame.....	608,758	Aug. 9	1051	241	84	881
Cunningham, Albert, Milwaukee, Wis., assignor to Filer & Stowell Company, of Wisconsin. Drag-saw.....	606,051	June 21	1877	$\left\{ \begin{array}{l} 432 \\ 433 \end{array} \right\}$	$\left\{ \begin{array}{l} 83 \\ 84 \end{array} \right\}$	1744
Cunningham, Chester M., Peora, W. Va. Box-fastener.....	605,401	June 7	666	148	83	1481
Cunningham, Frank J. (See Demarest and Cunningham.)						
Cunningham, George T., Boston, Mass. Railway signal system.....	608,031	July 26	2806	596	84	599
Cunningham, Isaac A., Antrim, Ohio. Wrench.....	598,304	Feb. 1	416	98	82	681
Cunningham, James E., Worcester, Mass. Car-coupling.....	605,287	June 7	436	98	83	1435
Cunningham, John, assignor of one-half to J. Carney, Pittsburg, Pa. Collapsible crate.....	611,836	Oct. 4	427	102	85	85
Cunningham, John F., <i>et al.</i> (See Holloway, James C., assignor.)						
Cunningham, Joseph W., Fremantle, Western Australia. Grinding-mill.....	615,811	Dec. 13	1081	$\left\{ \begin{array}{l} 253 \\ 254 \end{array} \right\}$	$\left\{ \begin{array}{l} 85 \\ 86 \end{array} \right\}$	1637
Cunningham, Michael F. (See McGrath, Patrick H., assignor.)						
Cunningham, Michael G., assignor of one-half to C. D. Woodruff, Bridgeport, Conn. Gas water-heater.....	606,126	June 21	2018	462	83	1771
Cunningham, Mida R. (See Cunningham and Sjöman.)						
Cunningham, Porteus R., and C. H. Howland-Sherman, Washington, D. C. Invertible fluid-battery.....	602,616	Apr. 19	1765	$\left\{ \begin{array}{l} 403 \\ 404 \end{array} \right\}$	$\left\{ \begin{array}{l} 83 \\ 84 \end{array} \right\}$	364
Cunningham, William. (See Herr, Cunningham, and Herr.)						
Cunningham, William F., New York, N. Y. Shut-off nozzle.....	615,434	Dec. 6	405	97	85	1492
Cunningham, William I. and M. R., and T. Sjöman, Pittsburg, Pa. Train-pipe coupling.....	597,267	Jan. 11	1396	327	82	287
Cunningham, William J., Philadelphia, Pa. Bottle-washer.....	606,757	July 5	230	49	84	47
Cunningham, William P. (See Hugus, George M., assignor.)						
Cuntz, Hermann F., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Velocipede.....	613,621	Nov. 1	714	166	85	752
Cupper, John T., Lock Haven, Pa. Crystal aluminium bronze.....	610,645	Sept. 13	919	-----	84	1634
Cupples, Andrew M. (See Harris, Cupples, and McCann.)						
Cupples, Samuel. (See West, James, assignor.)						
Cureaw, Emile L. A., East Orange, N. J. Socket-bolt.....	602,178	Apr. 12	1028	225	83	207
Curfman, Levi C., <i>et al.</i> (See Putman, Warren, assignor.)						
Curl, Charles A., assignor of one-third to J. D. McAnlis, Beaver Falls, Pa. Extension-table.....	606,834	July 5	376	80	84	75
Curley, Thomas. (See Metz and Curley.)						
Curley, Thomas, Waltham, Mass. Pedal.....	596,743	Jan. 4	513	117	82	100
Curley, Thomas, Waltham, Mass. Pedal.....	611,773	Oct. 4	308	74	85	63
Curling, Jesse H., Trowbridge, England. Tanning hides or skins.....	615,999	Dec. 13	1365	320	85	1692
Curran, James. (See Hoffman and Curran.)						
Curran, James J., Holyoke, Mass. Inhaler.....	598,286	Feb. 1	391	91	82	675
Curran, Peter, assignor of one-half to P. Barrall, Nanticoke, Pa. Nut-lock.....	605,859	June 21	1507	345	83	1676
Curran, Philip B., Philadelphia, Pa. Incandescent hydrocarbon-burner.....	614,536	Nov. 22	2336	535	85	1117
Currey, Caleb M., Bay City, Mich. Vehicle-wheel.....	598,771	Feb. 8	1200	290	82	847
Currie, Herman, <i>et al.</i> (See Leask, John and T. W., assignors.)						
Currie, James. (See Orewiler, Benjamin F., assignor.)						
Currie, Shepard H., assignor of one-half to F. Marriott, Detroit, Mich. Sounding-lead.....	598,725	Feb. 8	1133	273	82	834
Currie, Stanley C. C., Montreal, Canada, assignor to himself, and E. N. Dickerson, New York, N. Y. Treating metallic ores.....	604,167	May 17	1721	-----	83	984
Currier, Alfred, assignor of one-half to W. P. Putnam, Grand Rapids, Mich. Fastening device.....	601,998	Apr. 5	715	151	83	135
Curry, Charles J. (See Moreno and Curry.)						
Curry, Harry L., Carnot, Pa. Fence-post.....	600,636	Mar. 15	1844	422	82	1610
Curry, John F., assignor of one-fourth to E. N. Krause, Wilmington, Del. Shoe-fastener.....	600,714	Mar. 15	1989	453	82	1636
Curry, Lewis M., Chicago, Ill. Adjustable jamb-hinge.....	609,756	Aug. 23	2941	687	84	1272
Curry, Merritt H., North Pomona, Cal. Wrench.....	603,178	Apr. 26	2743	624	83	567
Curry, William J. (See Arnold and Keil, assignors.)						
Curry, William J., Nanaimo, Canada. Grater.....	611,447	Sept. 27	2401	551	84	1953
Curry, William J., Nanaimo, Canada. Collapsible bed.....	613,499	Nov. 1	522	118	85	715
Curry, William M. (See Marshall and Curry.)						
Curtice, Jesse M., Kansas City, Mo. Kitchen-safe.....	602,733	Apr. 19	1979	449	83	405
Curtice, William H., Louisville, Ky. Cabinet-sifter.....	608,371	Aug. 2	361	79	84	727
Curtin, Cornelius J., Newark, N. J. Making slag cement.....	606,278	June 28	2317	-----	83	1850
Curtin, Henry M., <i>et al.</i> (See Pettes, Moses M., assignor.)						
Curtis, Andrew J., assignor of one-half to F. L. Palmer, Monroe, Me. Fastening for blinds.....	607,220	July 12	1097	236	84	229
Curtis, Charles. (See Dodge, Orestes B., assignor.)						
Curtis, Charles H., Derby, assignor to Birmingham Brass Company, Shelton, Conn. Automatic buffing-machine.....	610,433	Sept. 6	550	$\left\{ \begin{array}{l} 120 \\ 121 \end{array} \right\}$	$\left\{ \begin{array}{l} 84 \\ 85 \end{array} \right\}$	1544
Curtis, Charles L., assignor to F. Strauss, New York, N. Y. Harmonica.....	605,083	June 7	26	8	83	1358
Curtis, Charles L., assignor to F. Strauss, New York, N. Y. Harmonica.....	611,237	Sept. 27	1992	459	84	1879
Curtis, Daniel D., Sidney Centre, N. Y. Device for securing bedstead-rails together.....	601,503	Mar. 29	3350	758	82	1998
Curtis, Edmund A., Chicago, Ill. Equalizer for car-trucks.....	603,055	Apr. 26	2529	575	83	524
Curtis, Frederic A., assignor of three-fourths to B. B. A. A., and T. B. Campbell, Anderson, Ind. Wire fence.....	615,260	Dec. 6	72	20	85	1427
Curtis, Warren, Palmer, N. Y. Apparatus for separating fibers, clay, or other material from liquids.....	599,957	Mar. 1	524	119	82	1312
Curtis, William F., Miller's Falls, Mass. Log-dumper.....	606,888	July 5	461	99	84	91
Curtis, William G., San Francisco, Cal. Joining railway-bars.....	607,221	July 12	1099	237	84	229
Curtis, Zenas A., Hansford, Tex. Wire-stretcher.....	612,661	Oct. 18	1905	451	85	389
Curtiss, Mary H. (See Hess and Curtiss.)						
Curwen, Samuel M. (See Brill and Curwen.)						
Cushman, Henry D. (See Crumbaker, Fred R., assignor.)						
Custer, Albert W., New Whatcom, Wash. Cake-beater.....	601,887	Apr. 5	510	105	83	96



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Custer, Charley T. (See Custer, Theophilus B. and C. T.)						
Custer, Levitt E., Dayton, Ohio. Electric oven	596,696	Jan. 4	431	98	82	85
Custer, Theophilus B. and C. T., Hillsborough, Ohio. Wire fence	610,896	Sept. 20	1362	312	84	1739
Cutler, Daniel R., Searsburg, Vt. Combined table and game-counter	601,637	Apr. 5	25	5	83	7
Cutler, Henry H., Chicago, Ill. Time-limit cut-out	603,594	May 3	634	141 142	83	725
Cutler, James L., assignor of one-half to E. Gooder, Cincinnati, Ohio. Telegraph instrument	606,449	June 28	2639	607	83	1913
Cutler, Otis H. (See Lindenthal, Gustav, assignor.)						
Cutler, William, Birmingham, England. Construction of fermenting squares and vats	599,599	Feb. 22	2387	628	82	1170
Cutler, William H., Freeport, N. Y., and S. V. Godden, Boston, Mass. Valve-gear for engines	612,196	Oct. 11	1064	255 256	85	218
Cutler, Willie E., Lewiston, Me., assignor to Draper Company, Portland, Me., and Hope- dale, Mass. Selvage-motion for looms	607,985	July 26	2698	575 576	84	575
Cutter Electrical and Manufacturing Company. (See Cutter, Henry B., assignor.)						
Cutter, Henry B., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company, of New Jersey. Rheostat	606,646	July 5	18	3, 4	84	6
Cutter, Solomon M., Nashua, N. H., assignor, by mesne assignments, to Wire Grip Fast- ening Company of Maine, Boston, Mass. Nail or slug strip	610,475	Sept. 6	624	140	84	1558
Cutter, Solomon M., Boston, Mass., assignor to McKay Shoe Machinery Company, of Maine. Pegging-machine	612,487	Oct. 18	1580	377 378	85	328
Cutter, Solomon M., assignor, by mesne assignments, to Wire Grip Fastening Company of Maine, Boston, Mass. Clutch	612,799	Oct. 18	2147	510	85	436
Cuttingham, Christopher F., New York, N. Y. Cuspidor for cars, &c	606,647	July 5	20	4	84	6
Cypher, Albert D., New York, assignor of one-half to S. L. Fowler, Peekskill, N. Y. Con- densed-milk cup	608,323	Aug. 2	286	63	84	712
Cypher, John W., Benton, Ill. Mowing-machine	610,671	Sept. 13	956	221	84	1642
Czeiler, Stephan, Arad, Austria-Hungary. Lock	601,371	Mar. 29	3121	704 705	82	1893
Czermak, John W. (See Erickson, Peter E., assignor.)						
D. K. Miller Lock Company. (See Jackson and Soley, assignors.)						
D. M. Osborne & Company. (See Sharp, Charles S., assignor.)						
D. Stewart & Company. (See Lyon, Henry, assignor.)						
D. T. Dudley & Son Company. (See Morin, Joseph H., assignor.)						
D'Auria Pumping Engine Company. (See Auria, Luigi d', assignor.)						
D'Este, Julian, <i>et al.</i> (See Wilson, George T., assignor.)						
D'Esté, Julian, Salem, and G. T. Wilson, Somerville, assignors to D'Esté & Seeley Com- pany, Boston, Mass. Cistern for water-closets	614,648	Nov. 22	2545	581	85	1154
D'Esté & Seeley Company. (See D'Esté and Wilson, assignors.)						
D'Huart, Emile. (See Glaesener and D'Huart.)						
D'Urban, Charles J., Johannesburg, South African Republic. Device for propelling ships, &c	606,653	July 5	30	7	84	8
Daboll, Nathan D., Plainfield, N. J. Shoe dip and polisher	602,897	Apr. 26	2258	514	83	473
Dade, Harry E., New York, N. Y. Temporary binder and lock	604,561	May 24	2466	561	83	1144
Dages, Jules N., Paris, France. Elastic tire	606,378	June 28	2510	583	83	1886
Daggett, William H., Somerville, Mass. Door-key	598,560	Feb. 8	843	201	82	780
Dagley, Thomas A., Tenn. Means for transmitting power	609,012	Aug. 16	1570	373	84	993
Dagoneau, Jules C., Beaufort, France. Combined battery and electric cell	609,142	Aug. 16	1825	432	84	1038
Dahl, Adolph G., and V. Lauer, Little Berger, Mo. Automatic vehicle-brake	601,127	Mar. 22	2663	608	82	1779
Dahl, Adolph M. (See Foote and Dahl.)						
Dahl, Charles A., Lynn, Mass., assignor, by mesne assignments, to Consolidated Sewing Machine Company, Portland, Me. Buttonhole-sewing machine	612,604	Oct. 18	1782	421 422 423 424 425 426	85	365
Dahl, Charles A., Lynn, Mass., assignor, by mesne assignments, to Consolidated Sewing Machine Company, Portland, Me. Buttonhole-sewing machine	612,605	Oct. 18	1796	425 426	85	368
Dahl & Co. (See Elsaesser, Emil, assignor.)						
Dahlberg, Gustaf A., New Sweden, Minn. Hand-cart	601,827	Apr. 5	385	81	83	72
Dahlman, Carl O., Chicago, Ill. Plow	613,122	Oct. 25	2696	637	85	563
Dahlquist, Adrian. (See Dahlquist, Nils A. and A.)						
Dahlquist, Nils A. and A., Worcester, Mass. Combined wire-cutter, pocket-knife, and corkscrew	614,537	Nov. 22	2337	535	85	1117
Daigle, Napoleon. (See Vincent, Hilaire, assignor.)						
Dailey, Charles E., assignor of one-half to E. I. Baxter, East Liverpool, Ohio. Car-re- placer	608,324	Aug. 2	287	63	84	713
Dailey, Parley A., Brooklyn, N. Y. Stay and fastener	605,402	June 7	667	148	83	1481
Dain, Joseph, Jr., assignor to Dain Manufacturing Company, Carrollton, Mo. Hay-stacker	608,653	Aug. 9	872	201	84	846
Dain Manufacturing Company. (See Dain, Joseph, Jr., assignor.)						
Dainton, John J., Chicago, Ill. Rail-bond	601,707	Apr. 5	161	31	83	33
Dake, Charles A., F. P. Shepard, and F. S. Peck, Edmond, Okla. Ter. Photographic camera	597,268	Jan. 11	1397	327	82	287
Dake, Charles W. (See Knappe and Dake.)						
Dalchow, Eduard. (See Pöttgens, Johann, assignor.)						
Dale, Bert, Milwaukee, Wis. Inlet-valve for flush-tanks	605,084	June 7	27	8	83	1358
Dale, Charles H., assignor to J. L. Dale, New York, N. Y. Hose-nipple	602,617	Apr. 19	1771	404	83	365
Dale, Elmer L., Waterford, Wis. Spike-puller	613,123	Oct. 25	2698	637 638	85	564
Dale, Jennie L. (See Dale, Charles H., assignor.)						
Daley, Fred A., Roslindale, Mass. Pressure-regulator	612,800	Oct. 18	2150	510 511	85	437
Daley, Michael R., Fall River, Mass. Cash-holder	608,654	Aug. 9	875	201 202	84	847
Dalla-Décimas, Louis, Courbevoie, A. Kécheur, Billancourt, and A. Chagnaud, Cognac, France. Steam-engine	613,124	Oct. 25	2699	638	85	564
Dallas, Charles R., Pittsburg, Pa. Valve	604,732	May 31	2777	635	83	1223
Dallas, Madison, New Orleans, La. Back-band buckle for trace-carriers	606,518	June 28	2744	633	83	1934
Dallett, William P., Media, Pa. Automatic relief-valve for pumps	615,812	Dec. 13	1084	254	85	1638
Dallin, Bruce, assignor to H. F. Jones and J. E. S. Lee, Fort Worth, Tex. Adjustable shade or curtain support	614,844	Nov. 29	2892	665 666	85	1236
Dallinger, Philip, New York, N. Y. Fireproof mask	606,379	June 28	2511	583	83	1886
Dallmann, Erich, assignor to Firm of I. Gansel, Neusalz, Germany. Electrically driven and moved plow	605,631	June 14	1055	242 243	83	1573
Dallmer, Albert E. T., assignor to Aktien-Gesellschaft Fahrrad and Maschinenfabrik, vormals H. W. Schladitz, Dresden, Germany. Automatic coin-freed apparatus	615,682	Dec. 13	858	197 198	85	1594
Dally, Edward J., Little Rock, Ark. Lantern	601,128	Mar. 22	2664	608	82	1779



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Dahmer, Arthur, Kiel, Germany. Bow-facing oar.....	603,398	May 3	266	59	83	651
Dalton, Thomas J., Boston, Mass. Chair.....	602,574	Apr. 19	1694	385	83	350
Daly, Frank A., Lowell, Mass., assignor to E. P. Ricker, Portland, Me. Illuminated display-cabinet.....	616,826	Dec. 27	2991	697	85	2049
Daly, James W., near Kinston, N. C. Truck.....	614,371	Nov. 15	2040	471	85	1048
Daly, John M., Chicago, Ill. Car-ventilator. (Reissue).....	11,655	Mar. 15	2215	505	82	1681
Daly, John F., Savannah, Ga. Bicycle-tire shield.....	608,889	Aug. 9	1235	287	84	914
Daly, William J., Rankin, Pa. Pillow-block.....	601,769	Apr. 5	283	56	83	51
Daly, William M., Philadelphia, Pa. Ledger-index.....	603,944	May 10	1270	289	83	863
Dalzell, Frank E., San Francisco, Cal. Cutter-head and cutter.....	598,364	Feb. 1	510	123	82	698
Daman, Charles N., Syracuse, N. Y. Duplicate-whist board.....	604,188	May 17	1769	398	83	994
Dame, Paul, and H. Pottevin, Paris, France, assignors to themselves and A. Piat. Filter.....	612,832	Oct. 25	2235	535	85	471
Damon, George L., Boston, Mass. Safe-boltwork.....	609,416	Aug. 23	2327	549 550	84	1156
Damon, George L., Boston, Mass. Safe.....	614,421	Nov. 15	2143	494	85	1067
Damon, Oscar, Buffalo, N. Y. Oil-burner.....	600,409	Mar. 8	1432	327	82	1513
Dana, Frederick I., assignor to Thomas Phillips Company, Providence, R. I. Clip for tentering-machines.....	597,162	Jan. 11	1232	290	82	256
Dana, Frederick I., assignor to Thomas Phillips Company, Providence, R. I. Tentering-machine.....	609,574	Aug. 23	2613	611 612	84	1209
Dana, Frederick I., assignor to Thomas Phillips Company, Providence, R. I. Clip for tenter-machines.....	609,575	Aug. 23	2615	612	84	1210
Danby, Alice E. (See Cable, James M., assignor.).....						
Danckwardt, Paul, assignor of two-thirds to H. Harms, New York, N. Y. Apparatus for producing alkali metals from their chlorids.....	607,506	July 19	1805	375	84	389
Danckwardt, Paul, assignor of two-thirds to H. Harms, New York, N. Y. Process of and apparatus for making ferrocyanids.....	607,507	July 19	1806	376	84	389
Dancyger, Simon, Dayton, Ohio. Tag-clasp.....	600,140	Mar. 8	995	222	82	1429
Dané, Sylvain A., Brooklyn, N. Y. Portable furniture.....	597,050	Jan. 11	1039	215	82	218
Danforth, Albert H., Monson, Mass. Staging-bracket.....	600,858	Mar. 22	2230	508	82	1697
Dangler, David A. (See Green, George S., assignor.).....						
Daniel, John W., et al. (See Lowe, Melvin W., assignor.).....						
Daniel, William, Corydon, Ind. Jar and cover therefor.....	612,312	Oct. 11	1278	308	85	356
Daniele, Vaninetti, San Francisco, Cal. Mowing-machine.....	607,347	July 12	1333	285	84	275
Daniels, Adelbert L., North East, Pa., assignor to H. B. Camp Company, Aultman, Ohio. Underground conduit for electric wires.....	599,292	Feb. 15	2076	492	82	1030
Daniels, Fred H., Worcester, Mass. Bale-tie.....	608,840	Aug. 9	1236	288	84	914
Daniels, Fred H., Worcester, Mass. Rolling-mill plant.....	611,565	Sept. 27	2622	604 605	84	1997
Daniels, Lewis S., Cleveland, Ohio. Heating-boiler.....	602,831	Apr. 26	2161	490	83	455
Daniels, Mary M. (See Daniels, Samuel B. and M. M.).....						
Daniels, Philo E., Oakland, Cal. Mucilage-bottle.....	598,474	Feb. 1	691	168	82	734
Daniels, Robert E., assignor of one-half to H. Huffstot, Youngstown, Ohio. Machine for shearing and bending metal.....	603,813	May 10	1034	230	83	818
Daniels, Robert E., assignor of one-half to H. Huffstot, Youngstown, Ohio. Metallic lathing.....	608,759	Aug. 9	1053	241	84	881
Daniels, Robert E., assignor of one-half to H. Huffstot, Youngstown, Ohio. Metallic lathing.....	608,760	Aug. 9	1053	241	84	882
Daniels, Samuel B. and M. M., Harvey, Ill. Burglar-alarm.....	606,519	June 28	2745	634	83	1984
Daniels, Taylor E., assignor to W. S. Daniels, Chicago, Ill. Roller-skate.....	616,773	Dec. 27	2904	674 675	85	2031
Daniels, Ward S. (See Daniels, Taylor E., assignor.).....						
Daniels, William H., New York, assignor to L. Prange, Brooklyn, N. Y. Kinetographic camera.....	604,733	May 31	2779	635 636	83	1223
Danielsen, Wilhelm G., and W. Merrill, Richmond, Utah; said Merrill assignor to said Danielsen. Sulky-plow.....	605,085	June 7	28	8,9	83	1358
Danielson, Charles J., et al. (See Parmley, Lemuel D., assignor.).....						
Danielson, Frank, Chicago, Ill. Ball-bearing.....	596,984	Jan. 11	928	219	82	197
Danielson, Oscar A., Owatonna, Minn. Drop-signal apparatus.....	601,222	Mar. 22	2838	649	82	1811
Danly, Robert C. (See Cottle and Danly.).....						
Dann, J. Lyman. (See Reid, Thomas J., assignor.).....						
Dann, James E., New York, N. Y. Heat-retaining starch-cooker.....	611,061	Sept. 20	1645	376	84	1793
Dannat, Willard H., Great Falls, Mont. Potato-planter.....	610,858	Sept. 13	1289	297	84	1710
Dannenbaum, Hermann, Philadelphia, Pa. Tawing hides or skins, &c.....	613,898	Nov. 8	1199	323	85	865
Danner, Aaron H., Manheim, Pa. Safety device for envelops.....	598,859	Feb. 8	1337	324	82	874
Danser, James W. (See Ely, Danser, and Rue.).....						
Danz, Jacob, 2d, St. Paul, Minn. Pail.....	597,051	Jan. 11	1040	246	82	218
Danzel, Louis C. (See Brown, Charles, assignor.).....						
Danzenbaker, Francis, Washington, D. C. Beehive.....	600,245	Mar. 8	1163	264 265	82	1462
Darby, James D., et al. (See Elliott, Ralph W., assignor.).....						
Darby, Levi I., Newark, N. J., assignor of one-eighth to F. L. Brown, New York, N. Y. Cash register and recorder.....	600,141	Mar. 8	995	222 223	82	1429
Danziger, Benno, Mannheim, Germany. Apparatus for drawing off liquids containing air or other gases.....	609,986	Aug. 30	3365	781 782	84	1369
Darby, Sidney C. (See Darby, Thomas A. and S. C.).....						
Darby, Thomas A. and S. C., London, England. Implement for digging or cultivating land.....	605,086	June 7	30	9,10	83	1358
Dargue, Walter. (See Woodcock, Longthorpe, and Dargue.).....						
Darling, Dorr. (See Kimball, William H., assignor.).....						
Darling, Edwin A., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Apparatus for finishing spinning-rings.....	612,381	Oct. 11	1395	337	85	279
Darling, James D., assignor to Harrison Bros. & Company, Incorporated, Philadelphia, Pa. Making peroxid of lead for galvanic batteries.....	603,361	May 3	199	-----	83	640
Darling, Mary J. (See Barbour, Lucy A., assignor.).....						
Darling, William A., Condon, Oreg. Machine for separating gold.....	608,841	Aug. 9	1237	288	84	914
Darlington, Frederick. (See Stanley and Darlington.).....						
Darmancier, Michel, St. Chamond, France. Shrapnel projectile.....	603,525	May 3	532	117	83	703
Darms, Herman A., Napa, Cal. Rifle attachment for shotguns.....	611,062	Sept. 20	1646	377	84	1793
Darnell, David E., Moorestown, N. J. Cattle-stanchion.....	616,454	Dec. 27	2308	538	85	1917
Darrah, Robert T., Philadelphia, Pa. Revolving coal chute and crib.....	606,520	June 28	2747	634	83	1934
Darwin, George C. (See Raymond, Billings H., assignor.).....						
Daseking, Georg, Hanover, Germany. Centrifugal creamer.....	600,684	Mar. 15	1938	441	82	1627
Dasey, Clarence V., Denver, Colo. Tool for repairing pneumatic tires.....	600,142	Mar. 8	1001	223	82	1430
Dash and Carriage Goods Company. (See Powell, James F., assignor.).....						
Dash, William L., London, England. Instrument for preventing deposit on interiors of kettles, &c.....	602,832	Apr. 26	2162	490	83	455



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Dauber, August, Bochum, Germany. Furnace .....	600,516	Mar. 15	1651	376	82	1573
Dauber, August, Bochum, Germany. Acetylene-gas generator .....	614,936	Nov. 29	3085	709	85	1275
Daugherty, Hugh B., Cooperdale, Ohio. Neck-yoke .....	613,796	Nov. 8	1033	234	85	833
Daugherty, James D., assignor to Daugherty Typewriter Company, Kittanning, Pa. Type-writer .....	610,801	Sept. 13	1194	275	84	1690
Daugherty, Robert C. (See Skinner, Charles W., assignor.)						
Daugherty Typewriter Company. (See Daugherty, James D., assignor.)*						
Daugherty, William G. (See Welch, George A., assignor.)						
Davenport, Edward W., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom .....	596,854	Jan. 4	694	160	82	135
Davenport, George W., Verona, assignor to W. T. Crane, Newark, N. J. Horseshoe .....	610,476	Sept. 6	625	140	84	1558
Davenport, John F., assignor of one-half to G. C. Carnes, Muncie, Ind. Air-tight vessel .....	615,478	Dec. 6	491	114	85	1507
Davenport, William H., Norwich, Conn. Ejecting device for breakdown guns .....	615,958	Dec. 13	1346	315	85	1687
Davenport, William S., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Metal-screw machine .....	604,306	May 17	1984	445 446	83	1035
Davey, Foriest A., assignor of one-half to J. G. Patterson, Detroit, Mich. Steam-whistle .....	608,955	Aug. 9	1445	342	84	953
Davey, Thomas, Lynn, Mass., assignor to Plumber's Metallic Joint Company, of Maine. Pipe-coupling .....	610,321	Sept. 6	347	74	84	1508
David, Francisque, St. Etienne, France. Tension device for loom-shuttles .....	613,974	Nov. 8	1315	299	85	888
David, Henri, Paris, France. Apparatus for mercerizing .....	616,606	Dec. 27	2588	601	85	1968
David, Theophilus, Corunna, Canada. Grappling-hook .....	605,221	June 7	308	70	83	1410
Davidge, Francis S., Washington, D. C. Car-fender .....	599,770	Mar. 1	168	41	82	1248
Davidson, Meyer, Paris, France. Centrifugal machine .....	605,087	June 7	32	10	83	1359
Davidson, Baxter M., Washington, D. C. Wrench .....	597,104	Jan. 11	1143	270	82	239
Davidson, Charles, and R. D. Stacey, New Hagerstown, Ohio. Rotary engine .....	608,761	Aug. 9	1054	242 243	84	882
Davidson, Frank B., assignor to Howe & Davidson, Incorporated, Chicago, Ill. Paper-box .....	609,266	Aug. 16	2066	490 491	84	1086
Davidson, James, Sydney, New South Wales. Process of rendering .....	614,292	Nov. 15	1887	436	85	1019
Davidson, James, and C. G. Hepburn, Sydney, New South Wales. Process of and apparatus for refining oils .....	614,293	Nov. 15	1890	437	85	1019
Davidson, James A., Millsap, Tex. Bridge construction .....	605,474	June 14	770	176 177	83	1521
Davidson, John, Holkham, England. Animal-trap .....	606,052	June 21	1881	433	83	1745
Davidson, John M. (See Forward and Davidson.)						
Davidson, John M., Allegheny, Pa. Attachment for screw-threading machines .....	598,196	Feb. 1	218	50	82	644
Davidson Manufacturing Company. (See Dixon, Hugh, assignor.)						
Davidson, Samuel C., Belfast, Ireland. Pneumatic apparatus for elevating or conveying tobacco-leaf, tea-leaf, wood-chips, &c .....	599,055	Feb. 15	1685	399 400	82	958
Davidson, Samuel C., Belfast, Ireland. Smoke-consuming furnace .....	600,998	Mar. 22	2459	560	82	1739
Davidson, Samuel C., Belfast, Ireland. Tire and rim for wheels .....	612,023	Oct. 11	771	190	85	161
Davidson, Samuel C., Belfast, Ireland. Rim and tire for wheels .....	612,583	Oct. 18	1746	414	85	358
Davidson, Samuel C., Belfast, Ireland. Elastic-tired wheel .....	615,059	Nov. 29	3333	765	85	1322
Davidson, Samuel C., Belfast, Ireland. Apparatus for moistening leaf-tobacco .....	616,292	Dec. 20	2008	466 467	85	1837
Davidson, Samuel C., Belfast, Ireland. Drier for tobacco, &c .....	616,293	Dec. 20	2010	467 468	85	1837
Davidson, Samuel C., Belfast, Ireland. Apparatus for drying tobacco, &c .....	616,294	Dec. 20	2013	468 469	85	1838
Davidson, William H. A., Cambridge, Mass. Ventilating wheel or fan .....	598,216	Feb. 1	259	57	82	651
Davies, Charles L., London, England. Rapid telegraphic transmission on cable-lines .....	608,389	Aug. 2	395	87	84	734
Davies, Charles W. T., assignor of one-half to S. L. Harris, San Francisco, Cal. Necktie .....	605,947	June 21	1676	383	83	1708
Davies, Charles W. T., assignor of one-half to S. L. Harris, San Francisco, Cal. Cravat .....	615,435	Dec. 6	406	97	85	1492
Davies, Charles W. T., assignor of one-half to S. L. Harris and H. H. Scott, San Francisco, Cal. Necktie .....	615,813	Dec. 13	1087	255	85	1638
Davies, John E. (See Smith, Anthony, assignor.)						
Davies, John R. (See Edwards, Davies, and Jarrett.)						
Davies Motor Company. (See Langdon-Davies, Walter, assignor.)						
Davies Motor Company. (See Soames, Alfred, assignor.)						
Davies, Percy W. (See Chapman and Davies.)						
Davies, Preston, London, England. Ball-bearing .....	610,961	Sept. 20	1468	336	84	1759
Davies, Walter D., New York, N. Y., assignor to Ansonia Clock Company, Ansonia, Conn., and New York, N. Y. Repeating alarm-clock .....	608,424	Aug. 2	465	104	84	748
Davies, Walter D., assignor to Ansonia Clock Company, New York, N. Y. Repeating alarm-clock .....	611,566	Sept. 27	2623	605	84	1997
Davies, William H., et al. (See Dinsmore, John H. R., assignor.)						
Davies, William O., Jr., Chicago, Ill. Car-door fastening .....	603,362	May 3	201	46	83	640
Davis, Abram B., Jersey City, N. J. Whistle .....	603,555	May 3	575	127	83	712
Davis, Albert W., Harvey, Ill. Washing-machine .....	601,950	Apr. 5	644	135	83	121
Davis, Alden, North Salem, Ind. Attachment for harvesters .....	610,525	Sept. 13	717	163	84	1593
Davis, Alfred B. (See Brookes and Davis.)						
Davis, Alfred M., London, England. Seesaw .....	599,833	Mar. 1	304	68	82	1270
Davis, Benjamin W., Phillips, Wis. Pneumatic bicycle-saddle .....	611,377	Sept. 27	2273	525	84	1931
Davis, Byron C., et al. (See Wattles, Luther H., assignor.)						
Davis, Charles A., Pasadena, and E. L. Townsend, Los Angeles, Cal.; said Townsend assignor to said Davis. Dental bridgework .....	605,403	June 7	668	148	83	1481
Davis, Charles C., Los Angeles, Cal. Eyeglass-frame .....	614,422	Nov. 15	2144	494	85	1067
Davis, Charles E., et al. (See Ball, Samuel C., assignor.)						
Davis, Charles E., assignor to Link-Belt Machinery Company, Chicago, Ill. Crossover for trolley systems .....	607,918	July 26	2583	547	84	553
Davis, Charles H., New York, N. Y. Electric railway .....	605,663	June 14	1110	255 256	83	1584
Davis, Charles H., New York, N. Y. Combined train arresting and signaling mechanism for electric railways .....	605,664	June 14	1113	256	83	1584
Davis, Charles H., New York, N. Y. Railway signaling system .....	606,450	June 28	2641	607 608	83	1913
Davis, Charles S. (See Sargent, Warren E., assignor.)						
Davis, Charles W., near Peotone, Kans. Cultivator .....	609,609	Aug. 23	2681	626 627	84	1221
Davis, Charles W., near Peotone, Kans. Cultivator and soil-stirring implement .....	609,610	Aug. 23	2687	627 628	84	1223
Davis, Charles W., near Peotone, Kans. Cultivating and soil-stirring device .....	609,611	Aug. 23	2692	628 630	84	1224
Davis, Christopher C., Napanock, N. Y. Lady's handkerchief-holder .....	597,636	Jan. 18	2027	473	82	429
Davis, Christopher C., Napanock, N. Y. Hair-tie button .....	602,699	Apr. 19	1927	437	83	395



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Davis, Clarence E., St. Joseph, Mo. Counter display-box	611,063	Sept. 20	1648	377	84	1793
Davis, Columbus M., Waggoner, Ill. Fastening device for end-gates	611,678	Oct. 4	150	37	85	32
Davis, David R., Eau Claire, Wis. Pulp-screen	612,404	Oct. 18	1435	346 347	85	300
Davis, David R., Eau Claire, Wis. Pulp-screen	612,405	Oct. 18	1437	347 348	85	301
Davis, David W., Detroit, Mich. Toy	610,600	Sept. 13	852	195	84	1620
Davis, David W., assignor to Davis Rail Brake Company, Detroit, Mich. Rail-brake. (Reissue)	11,693	Sept. 20	1966	453	84	1854
Davis, Decatur W., <i>et al.</i> (See Brown, Charles M., assignor.)						
Davis, Edward, Philadelphia, Pa., and H. R. Mustard, Smyrna, Del. Process of and apparatus for electrolytic tanning	603,263	May 3	36	10	83	608
Davis, Edward G., assignor to Deering Harvester Company, Chicago, Ill. Corn harvester and binder	596,855	Jan. 4	700	160 161	82	136
Davis, Elwin W., Geneva, Minn. Roller-bearing	603,586	May 3	624	139	83	723
Davis, Emory, New York, N. Y. Inkstand	605,177	June 7	213	53	83	1391
Davis, Ezekiel F. C., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Compound-engine valve device	603,441	May 3	344	77	83	666
Davis, Francis. (See Miller and Davis.)						
Davis, Frederick, assignor to J. A. Martin, London, England. Rendering tea digestible	613,027	Oct. 25	2540		85	532
Davis, Frederick A. W., Indianapolis, Ind. Column	616,084	Dec. 20	1588	370	85	1752
Davis Gasoline Engine Works Company. (See Cascaden, Thomas, Jr., assignor.)						
Davis Gasoline Engine Works Company. (See Davis, William F., assignor.)						
Davis, George G. (See Smith and Davis.)						
Davis, George H., New York, N. Y. Electromechanical musical instrument	606,279	June 28	2318	536 537 299	83	1850
Davis, George W., and E. E. Eggleston, Creston; said Davis assignor of part to C. T. Peterson, Platte, Nebr. Beet-harvester	613,975	Nov. 8	1316	300 301	85	888
Davis, Granville, assignor of one-half to D. D. Thomson, North Salem, Ind. Gate	605,860	June 21	1508	345	83	1676
Davis, Granville, North Salem, Ind., and J. M. Davis, Henry, Ill., assignors of one-third to D. D. Thomson, North Salem, Ind. Vehicle-wrench	603,838	May 10	1086	242	83	827
Davis, Greer W., New Albany, Ind. Center-finding register-calipers	608,183	Aug. 2	26	7	84	659
Davis, Harry, Butte, Mont. Skirt	601,434	Mar. 29	3233	729	82	1914
Davis, Harry P. (See Terry and Davis.)						
Davis, Harry P., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Quick-break switch	599,929	Mar. 1	478	108	82	1304
Davis, Harry P., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Electric brake	606,917	July 5	500	110	84	99
Davis, Harry P., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Controller for electric motors	610,124	Aug. 30	3581	829 830 831	84	1414
Davis, Harry P., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Controller for electric motors	611,465	Sept. 27	2437	561 562	84	1961
Davis, Harry P., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Contact device for electrically-propelled vehicles	606,819	July 5	343	73	84	68
Davis, Harry P., Pittsburg, and E. F. Harder, Wilksburg, assignors to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Switch for electric circuits	599,930	Mar. 1	480	108	82	1304
Davis, Harry P., Pittsburg, and F. Conrad, Wilksburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Electric-arc lamp	599,931	Mar. 1	481	108 109	82	1305
Davis, Harry P., Pittsburg, and F. Conrad, Wilksburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Electric meter and motor	608,842	Aug. 9	1238	288 289	84	914
Davis, Harry P., Pittsburg, and F. Conrad, Wilksburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Alternating-current-measuring instrument	611,466	Sept. 27	2442	562 563	84	1962
Davis, Harry P., Pittsburg, and F. Conrad, Wilksburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Alternating-current voltmeter	611,592	Sept. 27	2681	619 620	84	2007
Davis, Harry P., Pittsburg, and G. Wright, Wilksburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Regulating-switch for electric circuits	607,617	July 19	2006	416 417	84	425
Davis, Henry E., Brunner, assignor of one-half to W. J. Rohde, Houston, Tex. Saw-filing machine	608,282	Aug. 2	192	46	84	692
Davis, Henry F., <i>et al.</i> (See Martyn, Fred M., assignor.)						
Davis, Henry F., <i>et al.</i> (See Parkhurst, Edward B., assignor.)						
Davis, Henry S. (See Young, William F., assignor.)						
Davis, Hulance E., assignor to Struthers, Wells & Company, Warren, Pa. Retort-door	615,261	Dec. 6	73	20	85	1427
Davis, Hugh L., Braymer, Mo., assignor to De Kalb Fence Company, De Kalb, Ill. Wire-fence machine	609,535	Aug. 23	2548	596	84	1197
Davis, Isaac P., Hungerford, Tex. Harness-hame attachment	610,125	Aug. 30	3585	831	84	1415
Davis, James M. (See Davis, Granville and J. M.)						
Davis, James M. (See Foutch, Adelbert E., assignor.)						
Davis, Jenkin P., Ludlow, Ky., assignor to Warner Elevator Manufacturing Company, Cincinnati, Ohio. Valve for hydraulic elevators	604,230	May 17	1837	412	83	1007
Davis, Jesse W. D., Lampasas, Tex. Bathing-suit	601,556	Mar. 29	3431	779	82	1956
Davis, Jessie T., Booneville, Miss. Car-brake	598,981	Feb. 15	1560	370 371	82	932
Davis, John. (See Roberts and Davis.)						
Davis, John A., Desert Lake, assignor of two-thirds to G. Ipson, Huntington, H. Wade, and E. Miller, Castle Gate, Utah. Rotary sickle for mowing and reaping machines	604,189	May 17	1770	399	83	994
Davis, John B., Abingdon, Ill. Animal-trap	611,749	Oct. 4	275	66	85	56
Davis, John E., Washington, N. J. Organ	605,404	June 7	669	148	83	1481
Davis, John F. (See Fletcher, Levi L., assignor.)						
Davis, John G. J., Augusta, Ga. Swing	602,432	Apr. 19	1455	330	83	307
Davis, John T., assignor of three-fourths to F. M. Johnson, San Francisco, Cal. Quartz-mill	613,666	Nov. 8	781	178	85	786
Davis, Joseph C., Philadelphia, Pa. Woven fabric	616,774	Dec. 27	2906	675	85	2031
Davis, Joseph H., assignor of eleven-twentieths to J. W. Zachary and J. S. Reed, Lexington, Ky. Stew-pan	612,406	Oct. 18	1441	348	85	301
Davis, Joseph M., Glasgow, Scotland. Machine for manufacturing weldless chains	610,434	Sept. 6	551	121 122	84	1544
Davis, Luman H., Ridgefield, Conn. Lawn-mower	596,985	Jan. 11	928	219 220	82	197
Davis, Martin V. (See Payne, Lewis A., assignor.)						
Davis, McLain. (See Fleming, David A., assignor.)						
Davis, Nathan H., Philadelphia, Pa. Car-axle-box lid	597,800	Jan. 25	2328	543 544	82	502



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Davis, Nathan M., Ferguson, Iowa. Rein-holder.....	606,521	June 28	2749	635	83	1935
Davis, Orin C., assignor of one-half to W. R. Thorsen and H. W. Leonard, Manistee, Mich. Shaft or pole coupling for vehicles.....	607,222	July 12	1100	237	84	229
Davis Rail Brake Company. (See Davis, David W., assignor.) (Reissue.)						
Davis, Robert L. (See Davis, William J. and R. L.)						
Davis & Roesch Temperature Controlling Company. (See Roesch, Alfred, assignor.)						
Davis, Septimus, <i>et al.</i> (See Gorrell, William R., assignor.)						
Davis Sewing Machine Company. (See Hussey, Patrick L., assignor.)						
Davis, Spencer L., Chicago, Ill. Check-holding cabinet.....	616,183	Dec. 20	1801	416	85	1795
Davis, Stephen A., Chicago, Ill. Gear-indicating device.....	613,253	Nov. 1	46	11	85	626
Davis, Steven G., Indianola, Ill. Rock or stump extractor.....	596,961	Jan. 4	883	208	82	172
Davis, Sylvester B., Stockton, Cal. Hame-tug fastener.....	611,427	Sept. 27	2372	545	84	1948
Davis, Warren B., Brooklyn, N. Y. Kinetographic camera.....	601,951	Apr. 5	646	135 136	83	121
Davis, Wilbur G., Concord, Mass. Vehicle-shaft.....	605,632	June 14	1057	243 244	83	1573
Davis, William C., <i>et al.</i> (See Gearhart, Lewis, assignor.)						
Davis, William F., assignor to Davis Gasoline Engine Works Company, Waterloo, Iowa. Water-jacket for cylinders of engines.....	605,405	June 7	670	149	83	1481
Davis, William H., La Crosse, Wis. Seeding-machine.....	613,667	Nov. 8	783	179	85	786
Davis, William J. and R. L., Hiddenite, N. C. Coffee-roaster.....	602,555	Apr. 19	1664	378	83	345
Davis, William P., Warren, and H. J. Alexander, Huntington county, Ind. Swinging gate.....	604,110	May 17	1625	365 366	83	966
Davis, Willis H., Fitchburg, Mass. Trousers-guard.....	610,646	Sept. 13	920	210	84	1634
Davison, Charles W., assignor to F. P. Lane, Minneapolis, Minn. Protective seal for bicycles.....	605,054	May 31	3307	759	83	1325
Davison, George B., assignor to Eureka Mower Co., Utica, N. Y. Weeder.....	601,501	Mar. 29	3351	759	82	1938
Davison, George B., assignor to Eureka Mower Co., Utica, N. Y. Planter.....	601,870	Apr. 5	484	99 100	83	90
Davison, George C., Tyrone, Pa. Brick-machine.....	598,243	Feb. 1	298	68, 69	82	659
Davison, James E., Pittsburg, Pa. Grappling device.....	597,668	Jan. 18	2087	489	82	440
Davison, William F., Richmond, Va. Tooth-fillings.....	603,179	Apr. 26	2744	624	83	567
Davy, Alfred, and J. Edey, London, England. Grate for steam-boilers.....	606,191	June 28	2140	491	83	1813
Davy, Alfred, and T. G. S. Rogers, London, England. Grip-pulley.....	607,986	July 26	2700	576	84	575
Daves, George W. (See Hall, John J., assignor.)						
Dawson, Arthur T. (See Vickers, Dawson, and Buckham.)						
Dawson, Arthur T., Sheffield, England. Mounting for disappearing guns.....	605,459	June 7	750	171	83	1497
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Company, Limited, Sheffield, England. Breech-loading ordnance.....	601,129	Mar. 22	2665	608 609	82	1779
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Concealed fort for artillery.....	614,702	Nov. 22	2647	602	85	1173
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Electric firing device for ordnance.....	615,814	Dec. 13	1087	255	85	1639
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Apparatus for running guns in or out on shipboard.....	615,959	Dec. 13	1348	315	85	1687
Dawson, Frank, and W. O. Easton, Williamsport, Pa. Car-coupling.....	612,382	Oct. 11	1396	338	85	279
Dawson, James W., assignor to G. T. Honstain, Minneapolis, Minn. Pocket ratchet-brace for screw-drivers, &c.....	615,649	Dec. 6	797	185	85	1570
Dawson, John W., Louisville, Ky. Coin-controlled machine for automatically distributing electric currents.....	598,655	Feb. 8	1010	244	82	811
Day, Charles, London, England. Varnish.....	607,348	July 12	1334		84	275
Day, Charles M., New York, N. Y. Nozzle for burning pulverized fuel.....	616,455	Dec. 27	2310	588	85	1917
Day, Erastus, Lakewood, Ohio. Device for handling railway-rails.....	609,417	Aug. 23	2332	550	84	1157
Day, Francis, London, England. Bearing for vehicle-wheels.....	615,683	Dec. 13	861	198	85	1594
Day, George. (See Day, John and G.)						
Day, Henry L., Minneapolis, Minn. Fuel-feeder.....	603,076	Apr. 26	2574	584	83	533
Day, Henry L., Minneapolis, Minn. Fuel-feeder.....	603,077	Apr. 26	2576	584 585	83	533
Day, Horace G., Steubenville, Ohio. Kitchen-cabinet.....	615,684	Dec. 13	862	198	85	1594
Day, John, Logansport, Ind. Tether.....	601,952	Apr. 5	648	136	83	122
Day, John and G., Maesteg, England. Diving apparatus.....	609,418	Aug. 23	2333	550 551	84	1157
Day, John H., Cincinnati, Ohio. Mixing-machine.....	604,734	May 31	2781	636	83	1223
Day, John M., Aurora, Nebr. Thill or tongue coupling for vehicles.....	611,957	Oct. 4	627	152 153	85	123
Day, Stillman, assignor to F. A. Whitney Carriage Company, Leominster, Mass. Hub-attaching device.....	597,315	Jan. 11	1466	344	82	302
Day, Wilbur F. (See Lavigne, Joseph P., assignor.)						
Day, Wilbur F., Austin, Minn. Washing-machine.....	613,444	Nov. 1	420	96	85	696
Day, Willard G., and R. M. Glacken, assignors of one-third to T. A. Bryan, Baltimore, Md. Treating oils and fats.....	604,307	May 17	1991	447	83	1037
Day, William. (See Mino and Day.)						
Dayfoot, John B., Cambridge, assignor to Ivers & Pond Piano Company, Boston, Mass. Apparatus for tuning pianos.....	602,499	* Apr. 19	1566	356	83	328
Dayhoff, William C., assignor of one-half to D. H. Paddock, Kankakee, Ill. Adjustable handle-bar for bicycles.....	606,192	June 28	2141	491	83	1813
Daylight Incandescent Mantle Company. (See Puchmüller, Gerhard B., assignor.)						
Daymont, John B., assignor to Crompton Company, Crompton, R. I. Weft-pile-cutting machine.....	606,406	June 28	2557	592 593	83	1895
Dayton, Charles M. (See Barclay and Dayton.)						
Dayton, George E. (See Hall, George A., assignor.)						
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.)						
Dayton Paper Novelty Company. (See Haas, Walter G., assignor.)						
Dayton Paper Novelty Company. (See Stettler, Francis C., assignor.)						
Dayton, Romain P., assignor of one-half to E. D. Goodrich, Eaton Rapids, Mich. Heat-radiator.....	596,856	Jan. 4	704	162	82	137
Dayton, Russell A., Burton Station, Ohio. Sand-line spool.....	601,638	Apr. 5	25	6	83	7
De Camp, Alfred H., deceased, Trenton Junction, N. J.; E. A. and C. A. De Camp, executors. Hoisting and conveying apparatus.....	609,959	Aug. 30	3306	770	84	1358
De Camp, Alfred H., deceased, Trenton Junction, N. J.; E. A. and C. A. De Camp, executors. Hoisting and conveying apparatus.....	609,960	Aug. 30	3309	771	84	1359
De Camp, Alfred H., deceased; E. A. and C. A. De Camp, Boonton, N. J., executors. Hoisting and conveying apparatus.....	609,961	Aug. 30	3314	771	84	1360
De Camp, Clarence A., <i>et al.</i> , executors. (See De Camp, Alfred H.)						
De Camp, Estelle A., <i>et al.</i> , executors. (See De Camp, Alfred H.)						
De Camp, Joseph W., assignor of one-half to L. M. Shaw, Helena, Mont. Rock-drill.....	601,223	Mar. 22	2839	649	82	1812



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De Colton, Ella, Buffalo, N. Y. Folding lock	598,656	Feb. 8	1014	245	82	812
De Forest, Charles D., assignor of five-eighths to J. Kenna, Pittsburg, and J. H. Roney, Allegheny, Pa. Collar-and-socket machine	608,584	Aug. 9	744	171	84	823
De Forest, O'Lansing, Janesville, Wis. Wheel-track	596,857	Jan. 4	704	162	82	137
De France, Hugh H., Golden, Colo. Fountain-pen	599,691	Mar. 1	26	7	82	1221
De Freitas, William, New York, N. Y. Safety attachment for gas stoves or ranges	599,283	Feb. 15	2057	489	82	1026
De Hart, Peter P. (See Rinner and De Hart.)						
De Kalb Fence Company. (See Davis, Hugh L., assignor.)						
De Kay, Henry A., Pocomoke City, Md. Package	597,395	Jan. 18	1624	378	82	350
De la Grange, Sénéchal. (See Marotte, Alfred, assignor.)						
De la Harpe, Charles, Basle, Switzerland, assignor to L. Durand, Huguenin & Co., Basle, Switzerland, St. Fons, France, and Hünigen, Germany. Blue dye from galloctyanin and making same	616,622	Dec. 27	2615	-----	85	1973
De la Harpe, Charles, and C. Vaucher, Basle, Switzerland, assignors to L. Durand, Huguenin & Co., Basle, Switzerland, St. Fons, France, and Hünigen, Germany. Blue dye from galloctyanin and making same	613,578	Nov. 1	644	-----	85	738
De La Mar, Joseph R. (See Waldstein, Martin E., assignor.)						
De Lamar, James E., Delark, Ark. Wagon-body	616,225	Dec. 20	1879	434	85	1811
De Lamater, Edgar, Ogden, Utah. Car seal and tag	597,959	Jan. 25	2589	605	82	552
De Lany, Edwin H., Cleveland, Tenn. Steam-actuated valve	604,489	May 24	2343	531	83	1121
De Lany, William, Jr., Cobourg, Canada. Air-valve	598,217	Feb. 1	261	58	82	652
De Laval Separator Company. (See Klein, Daniel, assignor.)						
De Lue, Clarence E. (See Lorenz and De Lue.)						
De Man, Alphonse, Detroit, Mich. Fire-resisting wooden stairs	603,130	Apr. 26	2674	{ 606 607 }	{ 83 84 }	{ 554 666 }
De Man, Alphonse, Detroit, Mich. Fire-resisting frame and door	603,442	May 3	345	77	83	666
De Man, Alphonse, Detroit, Mich. Fireproof construction	606,988	July 5	611	133	84	121
De Man, Alphonse, Detroit, Mich. Artificial slab	607,223	July 12	1102	237	84	229
De Man, Alphonse, Detroit, Mich. Fireproof floor construction	607,224	July 12	1104	237	84	230
De Man, Alphonse, Detroit, Mich. Fireproof structure	609,795	Aug. 30	3013	706	84	1300
De Man, Alphonse, Detroit, Mich. Fireproofing and deafening for frame structures	610,435	Sept. 6	553	122	84	1544
De Morgan, William, London, England, assignor of one-half to W. I. C. Strange, Florence, Italy. Velocipede	616,226	Dec. 20	1880	434	85	1811
De Moulin, Edmund and U. S., Greenville, Ill. Dummy lung-tester	616,085	Dec. 20	1590	{ 370 371 }	{ 85 86 }	{ 1752 1753 }
De Moulin, Ulysses S. (See De Moulin, Edmund and U. S.)						
De Naeyer, Louis, Willebroek, Belgium. Water-tube steam-generator	601,790	Apr. 5	324	65	83	61
De Puy, Melvin, Buffalo, N. Y. Steam-boiler	597,961	Jan. 25	2592	606	82	553
De Quillfeldt, Charles, Amityville, N. Y. Bottle-stopper	610,721	Sept. 13	1042	240	84	1660
De Ramus, William G., assignor of one-half to D. H. Rawlinson, Prattville, Ala. Music-leaf turner	614,372	Nov. 15	2041	471	85	1048
De Remer, Jared R., assignor of one-half to L. Schwarz, Glenwood Springs, Colo. Hydraulic motor or water-wheel	611,406	Sept. 27	2330	537	84	1942
De Ribas, Louis A., Boston, Mass. Game apparatus	597,764	Jan. 25	2251	524	82	488
De Souchet, Augustus M., Indianapolis, Ind. Toy	597,519	Jan. 18	1841	{ 426 427 }	{ 82 83 }	{ 392 393 }
De Steiger, Edward A. (See De Steiger, Joseph L. and E. A.)						
De Steiger, Joseph L. and E. A., La Salle, Ill. Jar or bottle fastener	611,958	Oct. 4	628	153	85	123
De Tamble, Henry, assignor of two-thirds to P. Weiland, Aurora, and G. E. Ackerman, Yorkville, Ill. Fanning device	610,601	Sept. 13	853	195	84	1620
De Tray, Frederick H., assignor of one-half to C. U. Colburn, Quincy, Ill. Dividers	598,911	Feb. 15	1430	344	82	908
De Veau, Albert S. (See Baxter, Channing, assignor.)						
De Vore, George E., assignor of one-half to J. J. Baird, Lansing, Mich. Elevator-gate	613,878	Nov. 8	1169	268	85	860
De Wallace, Harry, St. Paul, Minn., assignor to H. Walker & Sons, Limited, Walkerville, Canada. Score-counter	608,586	Aug. 9	748	172	84	824
De Witt, Alexander A., New York, N. Y. Automatic lubricator	602,128	Apr. 12	928	203	83	188
De Witt, Alpha J., Matamoras, Pa. Machine for picking up stones	598,699	Feb. 8	1089	262	82	826
De Witt, George W., San Ardo, Cal. Gang-plow	610,387	Sept. 6	477	104	84	1530
De Witt, John C., Clear Lake, Wis. Burglar-alarm	597,573	Jan. 18	1927	449	82	410
De Witt, William E., Chicago, Ill. Handle-shield	600,637	Mar. 15	1845	422	82	1610
Deacon, Albert E., Chicago, Ill. Gas-washing apparatus	601,888	Apr. 5	511	105	83	96
Deacon, John F., Detroit, Mich. Scale-bar for type-writers	614,795	Nov. 22	2802	643	85	1204
Deacon, Percy W., and A. Timpe, Manchester, England. Cyclist's pouch	605,308	June 7	478	107	83	1443
Deadman, Arthur, Fort William, Canada. Nut-lock	599,690	Mar. 1	24	6	82	1221
Deadman, Arthur, Fort William, assignor of one-half to J. G. King, Port Arthur, Canada. Heating-stove	616,526	Dec. 27	2457	568	85	1944
Deakne, Theodore A., West Hoboken, N. J. Spike	612,407	Oct. 18	1442	348	85	301
Deal, Charles A., Chicago, Ill. Alarm	613,877	Nov. 8	1167	268	85	859
Deal, Josiah J., assignor of three-fourths to A. H. Diebold and C. N. Vicary, Canton, Ohio. Bicycle-lock	598,475	Feb. 1	692	168	82	734
Dean, Albert E. (See Salisbury and Dean.)						
Dean, Albert E. (See Taylor, Salisbury, and Dean.)						
Dean Brothers Steam Pump Works. (See Dean, John C., assignor.)						
Dean, Francis M., Huron, N. D. Automatic valve for track-sanders	596,575	Jan. 4	204	45	82	40
Dean, John Racine, Wis. Oar-lock	612,488	Oct. 18	1582	378	85	328
Dean, John Racine, Wis. Expansion-bolt fastening	612,489	Oct. 18	1583	378	85	328
Dean, John C., Indianapolis, Ind. Steam-pump regulator	609,386	Aug. 16	2265	535	84	1125
Dean, John C., assignor to Dean Brothers Steam Pump Works, Indianapolis, Ind. Cooling device for steam-engine condensers	612,383	Oct. 11	1397	338	85	280
Dean, John W., Winchester, Ky. Gate-operating mechanism	604,308	May 17	1994	447	83	1037
Dean, Millard F., and T. McCoy, Poca, W. Va. Rotary engine	608,762	Aug. 9	1056	243	84	882
Dean, Silas G., Norfolk, Nebr. Window-bracket	598,860	Feb. 8	1338	324	82	874
Dean, Truman W. (See Meats and Dean.)						
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone-exchange system	597,052	Jan. 11	1041	246	82	218
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone-exchange system	597,053	Jan. 11	1045	246	82	220
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone system	597,054	Jan. 11	1048	247	82	220
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone-exchange system	606,162	June 21	2081	479	83	1783
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone system	610,704	Sept. 13	1008	{ 234 235 }	{ 84 85 }	{ 1653 1654 }
Dean, William W., assignor to American Bell Telephone Company, Boston, Mass. Telephonic measured-service system	609,331	Aug. 16	2177	514	84	1108



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Deane, Albert L., <i>et al.</i> (See Coleman, Clyde, assignor.)						
Deane, Gardiner A. A., <i>et al.</i> (See Grove and Stover, assignors.)						
Deane, Gardiner A. A., <i>et al.</i> (See Wilkinson, Thomas A. and A. C., assignors.)						
Deane, Gardiner A. A., <i>et al.</i> (See Wilkinson, Thomas A. and F. A., assignors.)						
Deane, Herbert C., <i>et al.</i> (See Merriam, Lyman W., assignor.)						
Deane, Herbert C., Fitchburg, Mass. Transfer-truck	605,162	June 7	188	48	83	1386
Deane Steam Pump Company. (See Newcomb, Charles L., assignor.)						
Deans, John W., W. D. and R. J. Foster, Selby, England. Driving-chain for cycles	596,771	Jan. 4	560	129	82	108
Dear, Charles J., London, England. Machine for treating ramie, &c	613,622	Nov. 1	717	167	85	753
Dearborn, Fred S. (See Jones and Dearborn.)						
Dearborn, George W., Boston, Mass. Fan attachment for rocking-chairs	597,177	Jan. 11	1257	294	82	261
Deardorff, Daniel W., Cincinnati, Ohio, and C. N. Teetor, Hagerstown, Ind. Lock	600,143	Mar. 8	1002	224	82	1430
Dearduff, John W., Mollie, assignor of one-half to W. J. Baker, Montpelier, Ind. Feed-water regulator, gas cut-off, and alarm for boilers	598,499	Feb. 8	738	178	82	760
Dearing, David M., Jackson, Mich. Rotary engine	615,664	Dec. 6	827	191 192	85	1576
Dearinger, Mary E. (See Coffman, Ralph B., assignor.)						
Dearsley, Herbert. (See Percy, George, assignor.)						
Deas, James. (See Hale, Deas, and Reavil.)						
Deaton, Charles E., White Hall, Ill. Gate	613,254	Nov. 1	48	12	85	626
Deaver, Charles C., <i>et al.</i> (See Evans, William F., assignor.)						
Debize, François A., and L. F. Chasseigne, Paris, France. Manufacture of wooden matches	606,648	July 5	21	4	84	6
Decarie, Felix L., Montreal, Canada. Hose-pipe connection	599,224	Feb. 15	1955	463	82	1007
Decker, George W., Rochester, N. Y. Pneumatic sulky	597,605	Jan. 18	1980	461	82	420
Decker, Nathan C., Allentown, Pa. Awning-frame	600,306	Mar. 8	1266	288	82	1480
Decker, Ward, Owego, N. Y. Automatic telephone-exchange	604,373	May 24	2119	476	83	1081
Decker, William M., Kingston, N. Y. Sterilizer	612,625	Oct. 18	1837	436	85	377
Deckert, Thomas H., Forsyth, Mont. Musical instrument	605,041	May 31	3285	754	83	1321
Decock, Edouard, Roubaix, France. Apparatus for dyeing	611,428	Sept. 27	2373	545	84	1948
Decorah Wind-Mill Company. (See Pope and Meyrick, assignors.)						
Decrow, William E., Boston, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Electric signaling apparatus	612,708	Oct. 18	1982	470	85	403
Decrow, William E., Boston, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Electric signaling apparatus	612,709	Oct. 18	1986	470	85	404
Dederick, Joseph H., Haines Falls, N. Y. Whiffletree attachment	615,060	Nov. 29	3335	765	85	1322
Dedrick, Nicholas, Chicago, Ill. Engraving-machine	614,845	Nov. 29	2894	666 667	85	1237
Dederick, Peter K., Loudonville, N. Y. Baling-press	603,264	May 3	38	10	83	608
Dederick, Peter K., Loudonville, N. Y. Baling-press	605,273	June 7	413	93	83	1430
Dederick, Peter K., Loudonville, N. Y. Baling-press	610,168	Sept. 6	12	4	84	1445
Dederick, Zadoc P., Sherman, Tex. Acetylene-gas generator	599,074	Feb. 15	1713	407	82	963
Deegan, Daniel J., assignor of one-half to C. E. Sanford, Bridgeport, Conn. Printer's chase	602,679	Apr. 19	1892	431	83	388
Deeley, John, and L. B. Taylor, Birmingham, England. Removable lock for firearms	612,313	Oct. 11	1279	309	85	257
Deem, Miller M., assignor of one-half to P. & F. Manufacturing Co., Reading, Pa. Saddle for velocipedes	608,443	Aug. 2	491	111	84	753
Deen, James M., Harlan, Iowa. Hand-loom	597,763	Jan. 25	2249	523	82	487
Deere & Company. (See Poole, Staley D., assignor.)						
Deere & Mansur Company. (See Hunt and Friberg assignors.)						
Deere & Mansur Company. (See Waterman, Lewis E., assignor.)						
Deering Harvester Company. (See Butterfield, William, assignor.)						
Deering Harvester Company. (See Davis, Edward G., assignor.)						
Deering Harvester Company. (See Hanson, Paul, assignor.)						
Deering Harvester Company. (See Latimer, John W., assignor.)						
Deering Harvester Company. (See Packer, George W., assignor.)						
Deery, John J., Philadelphia, Pa. Apparatus for purifying liquids	601,052	Mar. 22	2544	579 580 581	82	1756
Defiance Machine Works. (See Ensign, George A., assignor.)						
Defiance Machine Works. (See Seymour, Charles, assignor.)						
Defrees, Thomas M. (See Vansickle, Alexander A., assignor.)						
Degen, Otto W., New York, N. Y. Furnace and liquid-fuel burner	603,556	May 3	577	127 128	83	712
Degenhart, J. P., <i>et al.</i> (See Scofield, John R., assignor.)						
Degge, Kate P., St. Louis, Mo. Ice-creeper	607,508	July 19	1809	376	84	390
Degner, Herman. (See Sievers, Henry, assignor.)						
Dehnel, Louis O., Sandusky, Ohio. Relief-valve	606,053	June 21	1883	433	83	1745
Deichler, William M., Lancaster, Pa. Water-filter	613,194	Oct. 25	2806	662	85	586
Deicke, Bernhard, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Red acid dye and making it	610,345	Sept. 6	394		84	1516
Deidrick, James C. (See Bebout and Brandon, assignors.)						
Deihl, George B. M., Washingtonville, Pa. Post-driving machine	601,196	Mar. 22	2786	637 638	82	1802
Deimel, Manning A. (See Quackenbush, Henry M., assignor.)						
Deis, Philip H., Washington, D. C. Cover for chambers, commodes, &c	608,032	July 26	2808	597	84	598
Deisher, John R., assignor of one-half to A. Cable and R. L. Price, Pottsville, Pa. Steam-distributing system for heating railway-cars	616,827	Dec. 27	2993	697 698	85	2050
Deitsch, Isaac N., New York, N. Y., and H. E. Dorn, Newark, N. J. Tool-box for bicycles or other vehicles	607,599	July 19	1974	410	84	420
Deitsch, John, Pittsburg, Pa. Bottle-stopper	613,125	Oct. 25	2701	638	85	564
Dekin, Albert A., Glendale, N. Y. Coffin-handle brace	597,494	Jan. 18	1804	418	82	384
Delano, William H., Newhall, Cal. Mechanical movement for windmills, &c	598,861	Feb. 8	1339	324	82	874
Delattre, Jules, Dorignies, France. Machine for combing wool	613,410	Nov. 1	361	82, 83	85	684
Delavy, Marie C. (See Cary, John B., assignor.)						
Delette, Eugène, Lure, France. Combining-machine	607,643	July 19	2055	427 428	84	435
Delin, Georges, Brussels, Belgium. Incandescent gas-burner	616,295	Dec. 20	2014	469	85	1838
Dell, James G. (See Wright and Dell.)						
Deller, Joseph, Napoleon, Ind. Automatic railway-switch	605,599	June 14	983	226	83	1561
Dellow, Samuel. (See Plant and Dellow.)						
Delorme, Pierre, Jr., Paris, France. Automatic mold for pieces in glass, &c	608,141	July 26	2969	637	84	631
Delory, Jean L., Blois, France. Adjustable garment-chart	614,703	Nov. 22	2648	603	85	1173
Delplace, Gustave, Namur, Belgium. Drying-kiln	613,361	Nov. 1	256	57, 58	85	666
Delzell, Harriet J., Jackson, Cal. Miner's lantern	597,960	Jan. 25	2590	605	82	552



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Demarest, Cornelius B., New York, N. Y. Depot-seating .....	596,986	Jan. 11	929	220	52	198
Demarest, David T., Alexandria, Va. Bicycle .....	603,006	Apr. 26	2457	559	83	511
Demarest, John, Malden, Mass. Heater .....	606,649	July 5	23	5	84	7
Demarest, William, and F. J. Cunningham, New York, N. Y. Valve for shower-baths .....	611,064	Sept. 20	1649	377	84	1794
Dembinski, Joseph, Buffalo, N. Y. Dredging-bucket .....	611,357	Sept. 27	2226	514 515	84	1922
Demere, Albion K. (See Sherman, Antone I., assignor.) .....						
Demeuse, Raoul, Brussels, Belgium. Electric traction apparatus .....	612,234	Oct. 11	1133	271 272	85	232
Deming Company. (See Deming, William L., assignor.) .....						
Deming Company. (See Millsbaugh, William H., assignor.) .....						
Deming Company. (See Stratton, James M., assignor.) .....						
Deming, Ferdinand, assignor to G. H. Clowes, Waterbury, Conn. Tube-rolling machine .....	611,609	Oct. 4	26	6, 7	85	8
Deming, William L., assignor to Deming Company, Salem, Ohio. Spraying apparatus .....	615,213	Nov. 29	3639	836	85	1382
Demmler, Albert J., North Versailles, Pa. Polishing and feed rolls for metal sheet or plate polishing, cleaning, and greasing machines .....	616,184	Dec. 20	1802	417	85	1795
Demore, Edward A., Augusta, Ga. Metallic shingle .....	614,294	Nov. 15	1892	437	85	1019
Demory, Adam R., assignor, by mesne assignments, to M. Fichtenberg, Milwaukee, Wis. Bicycle-step .....	615,533	Dec. 6	594	136	85	1527
Dempsey, Charles J., Chicago, Ill. Preserving hams, &c. ....	616,527	Dec. 27	2459	568	85	1944
Dempsey, James J., assignor of one-half to A. G. Laubenstein, Hartford, Wis. Angling device .....	605,538	June 14	864	203	83	1539
Dempsey, Patrick J., assignor to Kursheedt Manufacturing Company, New York, N. Y. Shirred fabric .....	614,609	Nov. 22	2479	566	85	1141
Dempsey, Thomas. (See Durant, Napoleon, assignor.) .....						
Demuth, Robert, assignor to Farbenfabriken, vormals Fr. Bayer & Co., New York, N. Y. Brown sulfur dye .....	603,755	May 10	919	-----	83	796
Demuth, Robert, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Yellow-brown cotton-dye .....	606,193	June 23	2142	-----	83	1814
Demuth, Robert, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Brown cotton-dye .....	611,610	Oct. 4	30	-----	85	8
Demuth, Robert, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Indigo-blue cotton-dye .....	611,611	Oct. 4	31	-----	85	9
Demuth, Robert, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Indigo-blue dye and making it .....	614,538	Nov. 22	2338	-----	85	1117
Denby, Jonas, Bingley, England. Stop mechanism for combing-machines .....	604,856	May 31	2984	683 684	83	1262
Denham, Howard W., Bronson, Fla. Vehicle hub and box .....	597,711	Jan. 25	2164	506	82	471
Denham, Howard W., assignor of one-half to H. B. Lloyd, Bronson, Fla. Sash-holder .....	603,783	May 10	973	217	83	806
Denham, John E., Stanberry, Mo. Shearing and punching machine .....	606,194	June 28	2143	492	83	1814
Denio Smoke Consumer Company. (See Denio, William L., assignor.) .....						
Denio, William L., assignor to Denio Smoke Consumer Company, Rochester, N. Y. Smoke-consumer .....	615,346	Dec. 6	231	55	85	1459
Denison, Hugh W., Gebhart's, assignor of one-half to J. C. Lowry, Somerset, Pa. Wire-fence tool .....	604,972	May 31	3164	728	83	1298
Denison, James R. (See Boyes and Denison.) .....						
Denmead, John W. (See Palmer and Denmead.) .....						
Dennis, Charles B. and L. B., Findlay, Ohio. Table .....	616,296	Dec. 20	2015	469	85	1839
Dennis, Decatur D., St. Louis Mo. Truss .....	608,444	Aug. 2	492	111	84	753
Dennis, Fred. (See Krieger, Alfred W., assignor.) .....						
Dennis, Lloyd B. (See Dennis, Charles B. and L. B.) .....						
Dennis, Robert A., Dayton, assignor of one-half to C. B. Oglesby, Middletown, Ohio. Skirt-guard for bicycles .....	607,225	July 12	1105	238	84	230
Dennis, Samuel K., Chicago, Ill. Bottle-closure .....	613,836	Nov. 8	1092	249	85	844
Dennis, Samuel K., West Pullman, assignor to Plano Manufacturing Company, Chicago, Ill. Platform and elevator .....	611,774	Oct. 4	310	74, 75	85	63
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Knotter for grain-binders .....	611,775	Oct. 4	313	75, 76	85	64
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Deck for grain-binders .....	611,776	Oct. 4	317	76	85	64
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Knotter for grain-binders .....	615,815	Dec. 13	1089	256	85	1639
Dennis, Seba S., and T. F. Thorn, assignors of one-half to H. S. Dixon, Edina, Mo. Cutting apparatus for mowers .....	602,734	Apr. 19	1982	450	83	405
Dennis, Truman H., et al. (See Jenks, Albert H., assignor.) .....						
Dennis, William H., Minneapolis, Minn., assignor to American Universal Lighting Company, Chippewa Falls, Wis. Acetylene-gas-generating lamp .....	610,477	Sept. 6	626	141	84	1559
Dennison, Thomas C., Omaru, New Zealand. Propelling and guiding mechanism for velocipedes, &c. ....	614,320	Nov. 15	1949	450	85	1030
Dennison, Walter E., assignor to City Street Improvement Company, San Francisco, Cal. Surface-finishing for asphalt or bituminous pavements .....	600,215	Mar. 8	1112	-----	82	1452
Denniston, William M., Bedford, Ind. Truck .....	614,796	Nov. 22	2803	643	85	1204
Denny, Christopher C., Tekama, Nebr. Automatic watering-trough .....	599,318	Feb. 22	2141	508	82	1064
Densler, Nat, Bowie, Tex. Safety attachment for railway rolling-stock .....	600,410	Mar. 8	1433	328	82	1513
Densmore, Samuel D., Boston, Mass. Wheel-tire for bicycles or other vehicles .....	613,561	Nov. 1	617	143	85	733
Dent, Robert K., Jr., Garlandville, Miss. Bed-brace .....	596,858	Jan. 4	705	162	82	137
Dentler, Frank, Parkville, Mich. Conveyor and elevator for threshing-machines .....	611,197	Sept. 20	1891	437	84	1841
Dentler, Wesley C., Eagle, Nebr. Adjusting means for delivery-spouts .....	608,585	Aug. 9	746	171 172	84	823
Denton & Co., W. (See Denton, Whitley, assignor.) .....						
Denton, James H. (See Hendricks and Denton.) .....						
Denton, Lemi B., assignor of one-half to J. Dolbee, Grand Rapids, Mich. Caster .....	600,977	Mar. 22	2421	553	82	1732
Denton, Lillian, administratrix. (See Denton, Whitley.) .....						
Denton, W. R. (See Perry, Timothy B., assignor.) .....						
Denton, Whitley, deceased; L. Denton, administratrix, assignor to W. Denton & Co., Centreville, Mich. Sleeping-garment .....	599,995	Mar. 1	579	133 134	82	1322
Deputy, Elijah E., Milford, Del. Safety-razor .....	605,274	June 7	416	94	83	1431
Deragon, Ernest J., Fitchburg, Mass. Clothes-hanger .....	605,633	June 14	1059	244	83	1574
Derby, Richard C., Newport, R. I. Document-file .....	598,365	Feb. 1	511	123	82	698
Derbyshire, James, et al. (See Ashton, Orrell, assignor.) .....						
Derbyshire, John and R., Loughton, England. Piston-packing .....	508,184	Aug. 2	28	7	84	660
Derbyshire, Reuben. (See Derbyshire, John and R.) .....						
Déri, Max, Vienna, Austria-Hungary. Arrangement for exciting magnets of dynamo-machines .....	614,373	Nov. 15	2043	471	85	1048
Deroy, Henri A., Paris, France. Apparatus for producing acetylene gas .....	604,025	May 17	1460	327	83	935



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Dery, Louie, assignor of one-fourth to P. Naze, Montpelier, N. D. Feed-water regulator.	606,195	June 28	2145	492	83	1814
Des Brisay, James, New Westminster, Canada. Power-hoist	611,777	Oct. 4	319	77	85	65
Des Brisay, James, New Westminster, Canada. Machine for crimping cans	615,061	Nov. 29	3336	766 767	85	1322
Des Moines Incubator Company. (See Gilcrest, Jacob K., assignor.)						
Desbain, Antoine, assignor to W. J. Lewis, Montreal, Canada. Brake	605,539	June 14	865	203	83	1539
Desrosiers, Narcisse. (See Paradis and Desrosiers.)						
Dessau, Morland M., London, England. Pneumatic tire	615,062	Nov. 29	3342	767	85	1324
Dessolle, Emile L., Epinay-sur-Seine, France. Process of and apparatus for electrode- positing	602,212	Apr. 12	1089	239	83	219
Deterding, Henry F., Commerce, Mo. Runner for seed-planters	597,396	Jan. 18	1625	378	82	350
Deterding, Henry F., Commerce, Mo. Means for releasing vessels from sand-bars	612,710	Oct. 18	1987	470 471	85	404
Dethlefs, Marx C., Willow, Cal. Hillside cultivator or plow	606,001	June 21	1777	407 408	83	1726
Dethlefsen, Berend, and B. Feddersen, Hamburg, Germany. Lock for cycles	616,775	Dec. 27	2907	675	85	2031
Detmers, Henry J. (See Robinson and Detmers.)						
Detrick Cigarette Machine Company of Baltimore City. (See Detrick, Jacob S., as- signor.)						
Detrick, Jacob S., Baltimore, Md., assignor, by mesne assignments, to Detrick Cigarette Machine Company of Baltimore City, of Maryland. Machine for making all-tobacco cigarettes	610,261	Sept. 6	217	49	84	1484
Detroit Casket Company. (See Blackford, William H., assignor.)						
Detroit Sheet Metal and Brass Works. (See McCoy, Elijah, assignor.)						
Detroit Switchboard and Telephone Construction Company. (See Ahern, Thomas F., assignor.)						
Detwiler, Alfred E., assignor to Milwaukee Gas Stove Company, Milwaukee, Wis. Valve for gas-heaters	608,974	Aug. 9	1480	350	84	960
Detwiler, Clinton A., Palmyra, Pa., assignor of one-tenth to A. G. Stauffer. Nut-lock	607,163	July 12	991	214	84	208
Detwiler, Edward, Horton, Kans. Stump-extractor	612,662	Oct. 18	1906	451	85	389
Detwiler, Ellen, Ironbridge, Pa. Veil-holder	602,433	Apr. 19	1457	331	83	307
Detwiler, Emanuel, Milwaukee, Wis. Coffee-roaster	597,397	Jan. 18	1626	378	82	350
Detwiler, Ulysses G., Altoona, Pa. Coupling-releasing mechanism	603,839	May 10	1088	243	83	827
Detwiler, William A., Cincinnati, assignor of one-half to W. F. Helwig, Hamilton, Ohio. Tie and fastening for railway-tracks	600,769	Mar. 15	2079	476 270	82	1655
Deübner, John W., assignor to Chicago Time Register Company, Chicago, Ill. Work- man's time-recorder	600,259	Mar. 8	1192	271 272	82	1466
Deübner, John W., assignor to Chicago Time Register Company, Chicago, Ill. Time-re- corder	603,320	May 3	130	31, 32	83	627
Deübner, John W., assignor to Chicago Time Register Company, Chicago, Ill. Work- man's time-recorder	610,169	Sept. 6	15	5, 6	84	1445
Deübner, John W., assignor to Chicago Time Register Company, Chicago, Ill. Work- man's time-recorder	610,170	Sept. 6	26	6, 7, 8	84	1447
Deuther, James A., Boston, assignor to J. Joyce, Andover, Mass. Treating calcium car- bids	615,816	Dec. 13	1091	-----	85	1639
Deuther, Lorenz A., Buffalo, N. Y. Sawing-machine	605,406	June 7	672	149	83	1482
Deutsch, Mathias A., et al. (See Gellenbeck, Edward J., assignor.)						
Deutsch, Sigmond, Philadelphia, Pa. Shirt	616,698	Dec. 27	2781	646	85	2006
Deutscher, Franz H. (See Deutscher, Henry W., assignor.)						
Deutscher, Henry W., assignor to F. H. Deutscher, Bondville, Ill. Check-row attach- ment for seed-planters	597,353	Jan. 11	1541	359 360	82	316
Deveau, Louis, assignor of one-half to P. Ellenburg, Springfield, Mo. Poultry-coop	609,612	Aug. 23	2704	630	84	1226
Devendorf, Irving R., and C. L. Earl, Jr., Herkimer, N. Y. Hose-rack	604,231	May 17	1839	412	83	1007
Deveney, Eber W., Augusta, Ga. Cotton scraper and cultivator	605,687	June 14	1154	267	83	1593
Devenney, A. Smith. (See Gillihan, James M., assignor.)						
Dever, James R., Olympia, Wash. Cleaning device	612,711	Oct. 18	1989	471	85	404
Devere Electric Company. (See Cabot, John A., assignor.)						
Devereaux, Frank S., Camden, N. J., assignor of one-half to J. C. Devereaux, Philadel- phia, Pa. Cabinet for clothes lines and pins	599,771	Mar. 1	170	41	82	1248
Devereaux, John C. (See Devereaux, Frank S., assignor.)						
Devereux & Co., Oren C. (See Goff, Frederick K., assignor.)						
Devine, James J., Clifton Heights, Pa. Diving-armor	609,085	Aug. 16	1703	405 406	84	1017
Devine, John C. (See Rue and Devine.)						
Devine, Joseph E. (See Durham and Devine.)						
Devine, William P., Vailsburg, N. J. Separable button	615,609	Dec. 6	723	166	85	1555
Devlin & Co., Thomas. (See Finnegan, John, assignor.)						
Devoe, Albert H., Chicago, Ill. Garment	597,398	Jan. 18	1628	379	82	350
Devore, Levi M., Freeport, Ill. Bicycle-saddle	597,055	Jan. 11	1051	247	82	221
Deweese, Alva E., Quincy, Ohio. Grain-carrier	604,822	May 31	2915	667	83	1249
Dewey Corporation. (See Dewey, Mark W., assignor.)						
Dewey, Francis H., Reading, Mass. Safety device for lanterns	611,858	Oct. 4	464	112	85	93
Dewey, Isaac H. (See Napier, Charles, assignor.)						
Dewey, Mark W., assignor to Dewey Corporation, Syracuse, N. Y. Incandescent electric lamp	603,056	Apr. 26	2530	575	83	524
Dewitt, Carl C., Waterloo, Iowa. Reversing-gear	600,411	Mar. 8	1434	328	82	1513
Dewitt, Carl F., Berlin, Germany. Thermocauter	606,380	June 28	2512	583	83	1886
Dewitt, John, and L. C. Jolly, Cooperstown, Ill. Wire-fence machine	610,126	Aug. 30	3586	831	84	1415
Dewson, John A. (See Emdin and Dewson.)						
Dexheimer, George W. (See Chambers, John W., assignor.)						
Dexter Folder Company. (See Dexter, Talbot C., assignor.)						
Dexter Folder Company. (See Dexter and Parker, assignors.)						
Dexter, Leonard W., San José, Cal. Nail holder and starter	612,833	Oct. 25	2237	535	85	471
Dexter, Merritt D., Bridgeton, N. J. Game apparatus	615,818	Dec. 13	1096	257	85	1640
Dexter, Talbot C. (See Parker, James J., assignor.)						
Dexter, Talbot C. (See Willetts, Joseph C., assignor.)						
Dexter, Talbot C., Pearl River, N. Y. Paper assembling and stapling machine	602,816	Apr. 19	2128	480 481 482 483 484 485	83	433
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine	605,088	June 7	33	11, 12	83	1359
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine	605,089	June 7	37	12, 13	83	1360
Dexter, Talbot C., Pearl River, N. Y. Sheet-separator for paper-feeding machines	615,817	Dec. 13	1092	256	85	1639



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Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-folding machine	596,807	Jan. 4	620	142 143	82	119
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-shifting gripper	599,319	Feb. 22	2142	508 509 514	82	1065
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering machine	602,898	Apr. 26	2260	515 516	83	474
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-folding machine	608,843	Aug. 9	1243	290	84	915
Dexter, Talbot C., Pearl River, and J. J. Parker, Brooklyn, assignors to Dexter Folder Company, New York, N. Y. Paper-registering machine	605,275	June 7	417	94	83	1431
Dey, William, Golden Gate, Minn. Watering-trough	603,321	May 3	137	32	83	628
Deyo, Jacob. (See Griffis, Henry L., assignor.)						
Dial, Marshall F., Kedron, Ark. Back-band hook	600,412	Mar. 8	1435	328	82	1513
Dial, Wilbur F. (See Dimond and Dial.)						
Dial, Wilbur F., and G. H. Dimond, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Take-up for sewing-machines	599,894	Mar. 1	421	93	82	1293
Diamantidi, Alexander, Freiland, Austria-Hungary. Draft-gear	604,735	May 31	2783	636	83	1224
Diamond Drill and Machine Company. (See Templin, Joseph H., assignor.)						
Diamond Electric Company. (See Scheeffler, Gustave A., assignor.)						
Diamond, Hyman, New York, N. Y. Sewing-machine	615,436	Dec. 6	407	97, 98	85	1492
Diamond Match Company. (See Donnelly, Charles J., assignor.)						
Diamond Match Company. (See Kay and Hutchinson, assignors.)						
Diamond Match Company. (See Russell, Philip G., assignor.)						
Diamond Match Company. (See Wright, Jacob P., assignor.)						
Diamond Soda Water Manufacturing Company. (See Mahnstrom, Peter E., assignor.)						
Diamond Truck and Car Gear Company. (See Gee, Horace L., assignor.)						
Diatto, Alfredo, Turin, Italy. Electric tramway	607,919	July 26	2584	548	84	553
Dibbell, George A., Washburn, Wis. Rotary engine	614,846	Nov. 29	2914	668 669	85	1240
Dibble, Morton A., assignor of one-half to H. L. Smith, Jackson, Mich. Multiple gear- ing for bicycles	609,664	Aug. 23	2800	652 653	84	1245
Dice, Arthur C., Joliet, Ill. Bow-facing oar	597,399	Jan. 18	1629	379	82	351
Dick, Albert B. (See Ballou, George F., assignor.)						
Dick, Albert B., Chicago, Ill. Type-writing machine	598,882	Feb. 8	1376	331 332	82	882
Dick, Albert B., Chicago, Ill. Copying-press	612,408	Oct. 18	1443	348 349	85	302
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Automatic stencil-print- ing machine	596,653	Jan. 4	346	76	82	69
Dick, Bernhard. (See Fowler, Robert F., assignor.)						
Dick, Emil. (See Brown and Dick.)						
Dick, Franklin P., Bucyrus, Ohio. Hanger and screen attachment for eaves-troughs	608,844	Aug. 9	1246	291	84	916
Dick, Joseph, Canton, Ohio. Fodder-cutter	613,668	Nov. 8	784	179	85	786
Dick, Joseph, Canton, Ohio. Pneumatic conveyer	614,295	Nov. 15	1893	437	85	1019
Dick, Joseph, Canton, Ohio. Endless conveyer	614,847	Nov. 29	2917	669	85	1241
Dick, Leonard L., Boston, Mass. Tea or coffee pot	597,574	Jan. 18	1928	449	82	410
Dickenson, Charles, Washington, D. C. Truss-bridge for rail-joints of railways	600,907	Mar. 22	2305	526	82	1710
Dickenson, Charles, Portland, Oreg. Panoramic target	613,855	Nov. 8	1125	257 258	85	851
Dickerman, Lewis C., Royalton, Vt. Box-fastener	613,500	Nov. 1	533	118	85	715
Dickerman, Robert C., New Haven, Conn. Mucilage-bottle	596,485	Jan. 4	32	8	82	9
Dickerson, Edward N. (See Currie, Stanley C. C., assignor.)						
Dickerson, Edward N. (See Roberts, Isaiah L., assignor.)						
Dickerson, Edward N., et al. (See Grimm, Maximilian, assignor.)						
Dickerson, Edward N., New York, N. Y. Burning acetylene gas	602,833	Apr. 26	2162	491	83	455
Dickerson, Edward N., New York, N. Y. Acetylene-generator	603,678	May 10	797	175	83	772
Dickerson, Edward N., New York, N. Y. Acetylene-gas-generating apparatus	604,139	May 17	1672	376	83	974
Dickerson, Edward N., New York, N. Y. Process of and apparatus for generating power from compressed gases	607,655	July 19	2081	434	84	439
Dickerson, Edward N., New York, N. Y. Carbid-cartridge for acetylene gas	610,171	Sept. 6	34	8	84	1448
Dickerson, Edward N., New York, N. Y. Combined cane and gas-light	610,478	Sept. 6	629	141	84	1559
Dickerson, Edward N., New York, N. Y. Automatic gas-supply apparatus	611,168	Sept. 20	1851	427	84	1833
Dickey, Alexander, Trenton, N. J., assignor of one-half to R. W. Dickey, Philadelphia, Pa. Chimney-cowl	610,033	Aug. 30	3439	797	84	1384
Dickey, Andrew, Niagara Falls, N. Y. Aluminium-reducing pot and means for tapping same	602,575	Apr. 19	1696	385	83	350
Dickey, David, Manhattan, Mont. Wrench	614,610	Nov. 22	2480	566	85	1141
Dickey, George W., Huntington, W. Va. Car-brake	615,819	Dec. 13	1096	257	85	1640
Dickey, Joseph W., New York, N. Y., assignor of one-half to C. E. Chapin, New York, N. Y., and Milford, Conn. Brush for electrical machines	610,705	Sept. 13	1016	235	84	1655
Dickey, Robert W. (See Dickey, Alexander, assignor.)						
Dickhuth, Max P. O., assignor to Firm of H. C. Meyer, Jr., Harburg-on-the-Elbe, Ger- many. Treating ratan	602,800	Apr. 19	2100		83	427
Dickie, George W., assignor to Union Iron Works, San Francisco, Cal. Apparatus for operating gun-turrets	599,600	Feb. 22	2687	628 629	82	1170
Dickinson, Albert. (See Timewell, Arthur T., assignor.)						
Dickinson, Charles. (See Becker, Nicholas F., assignor.)						
Dickinson, Charles. (See Douglass, Leon F., assignor.)						
Dickinson, Charles S. (See Pickett, Joseph H., assignor.)						
Dickinson, Francke W. (See Walkins, Louis E., assignor.)						
Dickinson, George W., Tacoma, Wash. Roller-bearing	610,436	Sept. 6	555	122	84	1545
Dickinson, George W., Shelbyville, Ill. Micrometer attachment for engineers' transits	612,314	Oct. 11	1281	309	85	257
Dickinson, Henri D., assignor to Meyer-Sniffen Company, Limited, New York, N. Y. Sanitary fixture for water-closets, &c	607,835	July 26	2422	514	84	523
Dickinson, James Q., Atlanta, assignor of one-half to E. L. C. Ward, Fulton county, Ga. Bed	603,131	Apr. 26	2675	607	83	554
Dickinson, Joseph H., New Orleans, La., assignor of one-half to T. S. Miller, South Or- ange, N. J. Erasing attachment for type-writing machines	613,501	Nov. 1	524	118	85	715
Dickinson, Thomas J., Hazleton, Pa. Key-fastener	615,820	Dec. 13	1097	257	85	1640
Dickinson, William A., East Orange, assignor to Searls Manufacturing Company, New- ark, N. J. Seat-post and saddle clamp	614,261	Nov. 15	1842	425	85	1010
Dickinson, William P., Wilmington, N. C. Propelling mechanism	611,679	Oct. 4	152	37	85	33
Dicks, C. H. (See Gregory and Batton, assignors.)						
Dickson, Archibald A., Toronto, Canada. Machine for manufacturing blocks of peat	613,856	Nov. 8	1127	258 259	85	851



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Dickson, John, New York, N. Y. Feed-water heater for steam-boilers	606,958	July 5	555	123	84	110
Dickson, John, New York, N. Y. Feed-water heater for steam-boilers	609,929	Aug. 30	3237	758	84	1344
Dickson, John, New York, N. Y. Steam-boiler	614,704	Nov. 22	2650	603	85	1173
Dickson, John A., Deport, Tex. Back or lining for fireplaces	608,763	Aug. 9	1060	243	84	883
Dickson, John W., assignor of one-half to S. J. Ely, Castle Rock, Wash. Lock	601,316	Mar. 29	3038	684	82	1877
Dickson, William D., Peoria, Ill. System for heating and ventilating houses	611,359	Sept. 27	2230	515 516	84	1923
Diebel, William, Philadelphia, Pa. Ball-bearing	598,197	Feb. 1	219	50	82	644
Diebold, A. H., <i>et al.</i> (See Deal, Josiah J., assignor.)						
Dieckmann, Diedrich, New York, N. Y. Pump	612,834	Oct. 25	2238	535	85	471
Dieckmann, Ferdinand, Cincinnati, Ohio. Sheet-metal elbow	597,056	Jan. 11	1053	247	82	222
Dieckmann, Gustave A., Levasy, Mo. Fence-post	604,458	May 24	2273	510	83	1110
Diefenthaler, August, and H. Röhl, assignors to Firm of H. Lanz, Mannheim, Germany. Centrifugal machine	596,576	Jan. 4	208	46	82	41
Diehl, Emil, F. Ruppert, and F. Löser, assignors to Werkzeug Maschinenfabrik "Union," (vormals Diehl,) Chemnitz, Germany. Ellipse-cutting mechanism for planers	607,987	July 26	2701	576	84	575
Diehl, Frank W., Detroit, Mich. Signaling device for railway-cars	602,434	Apr. 19	1459	331	83	307
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine	612,409	Oct. 18	1447	349	85	302
Diemer, Charles, Chicago, Ill. Door-hinge	611,587	Sept. 27	2625	605 606	84	1997
Diemer, George A., Newburg, N. Y. Bottle or similar vessel	604,929	May 31	3104	714	83	1286
Dierdorf, John, Indianapolis, Ind. Piano-tuning-pin holder	602,680	Apr. 19	1894	431	83	389
Dierdorf, John, Indianapolis, Ind. Piano	602,681	Apr. 19	1895	431 432	83	389
Dierks, John, (by judicial change of name now John Bernard,) Savannah, Ga. Pen and pencil holder	604,025	May 17	1463	328	83	935
Diesel Motor Company of America. (See Diesel, Rudolf, assignor.)						
Diesel, Rudolf, Berlin, Germany, assignor, by mesne assignments, to Diesel Motor Company of America, of New York. Internal-combustion engine	608,845	Aug. 9	1247	291	84	916
Dieter, Albert E. (See Sander and Dieter.)						
Dieterich, Charles G., New York, N. Y. Handle-bar for bicycles	610,736	Sept. 13	1064	244 245	84	1664
Dieterle, Wilhelm, assignor to Firm of J. Hauff, Feuerbach, Germany. Producing ortho-toluene sulfonic acid	602,682	Apr. 19	1896		83	389
Dietrich, Ludwig, assignor to B. Hyde, Chicago, Ill. Two-part horseshoe	599,958	Mar. 1	526	120	82	1312
Dietrich, Ludwig, assignor to B. Hyde, Chicago, Ill. Two-part horseshoe	600,517	Mar. 15	1652	377	82	1573
Dietz, Balthaser. (See Wise, Paul, assignor.)						
Dietz, Charles, Chicago, Ill. Door-hinge	609,878	Aug. 30	3154	736	84	1329
Dietz, Christopher F., New Orleans, La. Timepiece-dial	614,937	Nov. 29	3086	709	85	1275
Dietz & Co., George W. (See Rosentstar, Anders P. A., assignor.)						
Dietz, Conrad, Cincinnati, Ohio. Self-locking coupling or bearing	606,778	July 5	273	56, 57	8r	55
Dight, Charles F., Washington, D. C. Thermal inspirator	603,021	Apr. 26	2477	562	83	514
Dighton Furnace Company. (See Leonard, Fred P., assignor.)						
Dikeman, Charles S., Torrington, Conn. Tubular bar	610,262	Sept. 6	219	49	84	1485
Dill, Adolph. (See Newell, George F., assignor.)						
Dill, Charles H., assignor of one-half to E. P. Dill, Danville, Ind. Corn-planter	607,600	July 19	1976	410	84	420
Dill, Charles P. (See Pugsley, William E., assignor.)						
Dill, Enoch P. (See Dill, Charles H., assignor.)						
Dillahay, John G., assignor of one-half to C. G. Land and G. W. Thompson, Austin, Tex. Ditching-machine	603,557	May 3	580	128	83	713
Dillenbeck, Albert L., Fort Plain, N. Y. Window-screen	610,437	Sept. 6	556	123	84	1545
Dillenbeck, Jacob J., assignor to C. Tollner, Jr., Pulaski, N. Y. Lock	597,669	Jan. 18	2087	489	82	440
Diller, Williams D., Boiling Springs, Pa. Wire-stretcher	596,987	Jan. 11	931	220	82	198
Dillman, A. O., South Haven, Mich. Machine for sorting fruit or vegetables	611,859	Oct. 4	465	112	85	93
Dillon, Georgia, <i>et al.</i> (See Dillon, Jerome B., assignor.)						
Dillon, Granville W., Orwell, Ohio. Soaking-boot for horses	615,437	Dec. 6	412	98	85	1493
Dillon, Jerome B., assignor to G. Dillon and J. H. Black, Wickliffe, Ky. Umbilical bandage	613,761	Nov. 8	967	222	85	821
Dillon, Patrick, Milford, Mass. Forming tobacco into wrappers	611,107	Sept. 20	1736		84	1811
Dillon, Peter, assignor of one-half to H. C. King, Lawrence, Mass. Calendering-machine	600,518	Mar. 15	1653	377	82	1574
Dillon, Peter, assignor of one-half to H. C. King, Lawrence, Mass. Calendering-machine	600,519	Mar. 15	1656	378	82	1574
Dillon, Peter, assignor of one-half to H. C. King, Lawrence, Mass. Paper-cutter	608,549	Aug. 2	668	151 152	84	788
Dillon, Washington M. (See Walton and Macke, assignors.)						
Dilworth, Porter & Company. (See Morrison, Andrew, assignor.)						
Dimmitt, Edward L., Kansas City, Mo. Ball-caster	616,411	Dec. 20	2222	518	85	1878
Dimmock, Robert S., Nashville, Tenn. Dipper	600,715	Mar. 15	1990	453	82	1637
Dimmock, William C., Baltimore, Md. Stove	599,225	Feb. 15	1956	463 464	82	1007
Dimock, Ira, New London, Conn., assignor to Nonatuck Silk Company, Northampton, Mass. Thread-package	607,587	July 19	1954	406	84	416
Dimond, George H. (See Dial and Dimond.)						
Dimond, George H., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine for hemstitching	605,700	June 14	1178	271	83	1597
Dimond, George H., and W. F. Dial, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Feeding mechanism for sewing-machines	604,005	May 10	1421	318	83	897
Dimond, George H., and W. F. Dial, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Machine for sewing with hem or open-work stitch	608,151	July 26	2985	640 641	84	634
Dimond, George H., and W. F. Dial, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Hemstitch or open-work sewing-machine	608,152	July 26	2987	641	84	635
Dines, Henry B., <i>et al.</i> (See Sheer, Walter B., assignor.)						
Dingee, William W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Governor	615,144	Nov. 29	3479	797 798	85	1350
Dingee, William W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Straw-stacker	615,145	Nov. 29	3480	798 799	85	1350
Dingman, Allen H., De Haven, Pa., assignor of one-half to J. Amm, Buffalo, N. Y. Gas-engine	610,034	Aug. 30	3440	797	84	1384
Dinkelberg, Theodore, assignor to himself and E. L. Gingi, New York, N. Y. Wrench	606,381	June 28	2514	584	83	1887
Dinkey, Alva C., Munhall, Pa. Coal-handling device	599,036	Feb. 15	1659	392	82	953
Dinkey, Alva C., Munhall, Pa. Gripping mechanism	604,973	May 31	3165	728	83	1298
Dinkle, Charles F., Carlisle, Pa. Back-pedaling brake	603,265	May 3	40	11	83	608
Dinsmore, George F., assignor to M. K. Dinsmore, Boston, Mass. Process of and apparatus for transmitting heat. (Reissue)	11,656	Mar. 22	2843	650	82	1813
Dinsmore, John H. R., Liverpool, assignor to W. H. Davies, Manchester, and J. E. Lees, Romiley, England. Fire-extinguishing sprinkler	607,988	July 26	2702	577	84	576



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Dinsmore, John H. R., Liverpool, assignor to W. H. Davies, Manchester, and J. E. Lees, Romiley, England. Fire-extinguishing sprinkler	615,262	Dec. 6	74	20, 21	85	1427
Dinsmore, Mary K. (See Dinsmore, George F., assignor.) (Reissue.)						
Dinsmore, Orin O., and A. M. Ireland, Lewiston, Me. Welding or swaging attachment for anvils	603,022	Apr. 26	2479	563	83	515
Dinsmore, Robert, assignor of three-fourths to C. B. Dunn, P. R. Lefferts, Passaic, N. J., and P. R. Van Mater, Washington, D. C. Magazine-firearm	601,708	Apr. 5	162	31 32 33	83	33
Diplock, Bramah J., London, England. Locomotive	602,310	Apr. 12	1252	276 277	83	252
Dipman, John W., and A. Exline, North Baltimore, Ohio. Corner-iron for vehicle-bodies	603,814	May 10	1035	231	83	819
Dippo, George H., W. C. Bruce, W. T. Semple, Chagrin Falls, and W. M. Powell, assignors to Ferrosteeel Company, Cleveland, Ohio. Sad-iron	607,349	July 12	1335	285	84	275
Dirigo Ball Manufacturing Company. (See Hathorn, George H., assignor.)						
Dirksen, William W., assignor of one-half to J. Oppenheimer, Jamestown, N. Y. Adjustable handle-bar	616,412	Dec. 20	2223	519	85	1879
Dishong, Owen H., <i>et al.</i> (See Thompson, William H., assignor.)						
Dishong, William. (See Eyre and Dishong.)						
Diss, Joseph C. (See Adams, Marcellus, assignor.)						
Diss, Louis P., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	599,417	Feb. 22	2334	551 552	82	1103
Diss, Louis P., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	614,244	Nov. 15	1810	418	85	1004
Diss, Louis P., Ilion, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writing machine	607,226	July 12	1107	238 239	84	230
Dissosway, Crowell M., assignor of one-half to J. Goodchild, New York, N. Y. Reversible railway-rail	611,680	Oct. 4	154	38	85	33
Dissosway, Crowell M., assignor of one-half to J. Goodchild, guardian, New York, N. Y. Nut-lock	612,235	Oct. 11	1136	272	85	232
Dissosway, Crowell M., assignor of one-half to J. Goodchild, guardian, New York, N. Y. Safety device for elevators or hoists	614,705	Nov. 22	2652	604	85	1174
Dithridge, Edward L., New York, N. Y. Pan for heating and applying cement	613,362	Nov. 1	258	58	85	667
Dittbenner, Hermann G., assignor to H. H. Smith, Minneapolis, Minn. Cushion-stop for nigger-bars	608,975	Aug. 9	1481	350	84	960
Dittman, Samuel E., Chicago, Ill. Overlay and making it	611,681	Oct. 4	155	38	85	33
Dittmar, August, Lawrence, Ohio. Door-operating mechanism	603,895	May 10	1191	269	83	848
Dittmar, Gustave, Washington, D. C. Speed-signal for bicycles	608,511	Aug. 2	604	135	84	775
Ditto, John T. (See Boone, George R., assignor.)						
Dittrich, Robert, Pittsburg, Pa. Stop-cock-box cleaner	607,350	July 12	1336	285	84	276
Divan, James M. (See Nelson, William, assignor.)						
Dively, Augustus V., <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Diven, S. L. (See Forrey, George J., assignor.)						
Divine, Bradford H., Utica, N. Y. Coaster for bicycles	604,168	May 17	1722	388	83	984
Dix, Joseph J., St. Louis, Mo. Bicycle-support	604,246	May 17	1870	419	83	1013
Dixon, Frank A., San José, Cal. Automatic cooking apparatus for canneries	607,656	July 19	2083	435	84	439
Dixon, Hugh, Jr., Kearny, N. J. Railway-switch	597,962	Jan. 25	2593	606	82	553
Dixon, Hugh, Ottawa, assignor to Davidson Manufacturing Company, Limited, Montreal, Canada. Miner's lamp	597,840	Jan. 25	2393	557	82	515
Dixon, John C., assignor to P. Sheridan, Montreal, Canada. Celluloid-press and vulcanizer	608,512	Aug. 2	606	136	84	776
Dixon, John H., Marietta, Ohio. Fluid meter or motor	602,311	Apr. 12	1255	277	83	253
Dixon, John J., Boston, Mass. Railway-switch	600,859	Mar. 22	2231	508	82	1697
Dixon, Joseph, London, England. Combined chair and bedstead	603,896	May 10	1192	269 270	83	848
Dixon, Patrick, Bloomington, Ill. Flue-cutter	609,536	Aug. 23	2550	597	84	1197
Dixon, Randall M., Philadelphia, Pa. Match-box	605,276	June 7	419	95	83	1432
Dixon, Robert M., East Orange, N. J. Heating-urn for buffet-cars	604,736	May 31	2784	637	83	1224
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Lamp	598,912	Feb. 15	1434	344	82	908
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, of New Jersey. Car-heating apparatus	605,563	June 14	913	213 214	83	1550
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, of New York. Lamp	606,002	June 21	1781	408	83	1727
Dixson, Henry S. (See Dennis and Thorn, assignors.)						
Dixson, Hugh. (See Midson and Schroeder, assignors.)						
Dize, Lewis C., Crisfield, Md. Crab scrape-bag	614,706	Nov. 22	2654	604 605	85	1174
Dizer, Marshall C., <i>et al.</i> (See Easton, Douglas M., assignor.)						
Dizer, Silas C., <i>et al.</i> (See Easton, Douglas M., assignor.)						
Dizer, Walter M., <i>et al.</i> (See Easton, Douglas M., assignor.)						
Doak, David P., assignor to Missouri Smelting Company, St. Louis, Mo. Mineral wool	605,042	May 31	3286	-----	83	1321
Doane, Fred V. (See Doane, Valentine, assignor.)						
Doane, Samuel E. (See Stone and Doane.)						
Doane, Valentine, assignor to F. V. Doane, Harwich, Mass. Insecticide	599,056	Feb. 15	1687	-----	82	958
Dobbie, Robert S., Jersey City, N. J. Dynamo-electric machine	606,407	June 28	2560	593	83	1895
Dobbins, Levy N., Chapel, W. Va. Pruning implement	611,065	Sept. 20	1650	377	84	1794
Dobbins, Thomas A., Martin's Ferry, Ohio. Machine for separating laminated packs	606,522	June 28	2750	635	83	1935
Dobbs, Archibald E., London, England. Meter for water, &c	614,707	Nov. 22	2656	605 606	85	1174
Dobell, John L. (See Shrewsbury and Dobell.)						
Döblin, Wilhelm. (See Stocker, Zander, and Döblin.)						
Dobrowski, William, <i>et al.</i> (See Wise, Harry, assignor.)						
Dobson & Barlow. (See Rothwell, Joseph and F., assignors.)						
Dobson, Christopher, Kirkham, assignor to R. K. Balcarras, Manchester, England. Apparatus for molding dough	614,423	Nov. 15	2146	494	85	1068
Dobson, Christopher, Kirkham, assignor to R. K. Balcarras, Manchester, England. Apparatus for working and molding dough	614,797	Nov. 22	2804	643 644	85	1204
Dobson, Seaborn. (See Rigdon and Dobson.)						
Dobyne, James B., assignor to Landis Wax Thread Sewing Machine Company, St. Louis, Mo. Sewing-machine	611,896	Oct. 4	527	128 129	85	105
Dobyne, James B., assignor to Landis Wax Thread Sewing Machine Company, St. Louis, Mo. Thread-waxing device for sewing-machines	613,126	Oct. 25	2702	639	85	564
Dock, Herman, Philadelphia, Pa. Blowpipe	615,960	Dec. 13	1349	316	85	1688
Dockstader, James, Syracuse, N. Y. Cue-rack	615,821	Dec. 13	1098	257	85	1641
Dockstader, James, Syracuse, assignor of one-half to T. W. Meacham, Onondaga Valley, N. Y. Billiard-table frame	606,196	June 28	2148	493	83	1815
Dockstader, Preston C., Colorado Springs, Colo. Seal-bolt	601,770	Apr. 5	285	56	83	55



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Dockstader, Preston C., Colorado Springs, Colo. Seal-lock .....	605,277	June 7	420	95	83	1432
Docteur, Eugene, Brussels, Belgium. Boiler-furnace .....	609,613	Aug. 23	2705	630 631	84	1226
Dodd, David. (See Frisbie, Henry R., assignor.)						
Dodd, John W., Martinsburg, and S. S. Smallwood, Ridgeway, W. Va. Cattle-guard for railways .....	596,962	Jan. 4	884	208	82	172
Dodd, Samuel M. (See Pickles, Charles K., assignor.)						
Dodd, William R. (See Smith, Henry A. E., assignor.)						
Dodd, William R., London, England. Preparing infants' foods .....	612,561	Oct. 18	1712	-----	85	352
Dodds, Horace G., assignor of one-half to H. E. Beighler, New Castle, Pa. Non-refillable bottle .....	609,736	Aug. 23	2909	681	84	1267
Dodge, Alfred C., Binghamton, N. Y. Butter printer and weighing machine .....	602,042	Apr. 5	785	170	83	148
Dodge, Arthur P., New York, N. Y. Condenser .....	611,358	Sept. 27	2229	515	84	1923
Dodge, Arthur P., New York, N. Y. Condenser .....	616,087	Dec. 20	1597	372	85	1754
Dodge, Arthur P., New York, N. Y. Steam-boiler .....	616,088	Dec. 20	1597	373	85	1754
Dodge, Arthur P., New York, N. Y. Controller for motor-cars .....	616,089	Dec. 20	1599	373	85	1755
Dodge, Arthur P., Chicago, Ill. Locomotive-engine .....	616,086	Dec. 20	1592	371 372	85	1753
Dodge, Burton R., Post Mill Village, Vt. Telephone system .....	606,803	July 5	322	67	84	64
Dodge, Edgar C. (See Borton, Chester C., assignor.)						
Dodge, George W., Livermore Falls, Me., assignor to Friction Pulley and Machine Works, Sandy Hill, N. Y. Controlling-valve .....	614,798	Nov. 22	2806	644	85	1205
Dodge, James M., Philadelphia, Pa. Moving stairway .....	598,772	Feb. 8	1202	290 291 292	82	847
Dodge, James M., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Bucket elevator .....	600,770	Mar. 15	2080	476	82	1655
Dodge, Julian L., assignor to A. Prussing and M. R. Dodge, Chicago, Ill. Meter .....	599,494	Feb. 22	2496	557	82	1133
Dodge, Levi, West Nashville, Tenn. Means for raising floating objects .....	597,606	Jan. 18	1982	461	82	421
Dodge, Mary R., <i>et al.</i> (See Dodge, Julian L., assignor.)						
Dodge, Orestes B., Boston, assignor of one-half to C. Curtis, Newton, Mass. Leather and rubber substitute .....	601,828	Apr. 5	387	82	83	72
Dodge, Philip T., New York, N. Y. Linotype-machine .....	605,701	June 14	1181	272	83	1597
Dodge, Robert D., Adel, Iowa. Snap-hook .....	615,685	Dec. 13	863	199	85	1594
Dodge, Theodore A., trustee. (See Bacon, Clovis N., assignor.)						
Dodge, Walter, Monterey, Cal. Chain propeller .....	611,467	Sept. 27	2445	563	84	1962
Dodge, William W., Burlington, Iowa. Game apparatus .....	607,020	July 12	691	150	84	157
Dods, Henry, Virginia City, Nev. Packing for piston-rods .....	600,576	Mar. 15	1756	401	82	1592
Dodson, Clay B., and E. G. Archibald, El Monte, Cal. Advertising-arch .....	614,799	Nov. 22	2808	644 645	85	1205
Dodson, Harry E., assignor to P. P. Mast & Company, Springfield, Ohio. Cultivator .....	608,402	Aug. 2	422	93	84	740
Dodson, Roy, Dallas, Tex. Railway-spike .....	613,797	Nov. 8	1034	235	85	834
Doe, Walter S., assignor of one-half to J. H. Weastell, Jersey City, N. J. Electric lamp .....	615,686	Dec. 13	864	199	85	1595
Doebler, Charles F., Hartford, Conn., assignor to S. Nafew, New York, N. Y. Nail-puller .....	600,122	Mar. 1	964	213	82	1406
Doebner, Oscar, Halle-on-the-Saale, Germany, assignor to Farbenfabriken of Elberfeld Company, New York, N. Y. Condensation product from salicylic and gallic acids .....	602,834	Apr. 26	2163	-----	83	455
Doerr, Jacob, Pinckneyville, Ill. Machine for rolling or unrolling barbed wire .....	601,557	Mar. 29	3432	779	82	1956
Doersch, George M., assignor of one-half to R. Koebke, Antigo, Wis. Tire-tightener .....	598,078	Feb. 1	15	4	82	606
Doersch, George M., assignor of one-half to R. Koebke, Antigo, Wis. Tire-tightener .....	604,606	May 24	2545	580	83	1160
Doflein, Philipp, and K. Billing, Philadelphia, Pa. Non-refillable bottle .....	606,758	July 5	231	49	84	47
Doherty, George, Boston, Mass. Tilting crate and stand for demijohns or carboys .....	614,091	Nov. 15	1516	347	85	950
Doherty, John, Lockport, N. Y. Valve-gear for pumps .....	606,480	June 28	2688	620	83	1922
Doherty, John P., East St. Louis, Ill. Wrench .....	612,712	Oct. 18	1990	471	85	405
Doherty, Thomas H. (See Murphy, William F., assignor.)						
Dohm, Louis, and C. H. Schlundt, Rahway, N. J. Bicycle-lock .....	606,650	July 5	24	5	84	7
Dohme, Charles A., Stelvideo, Ohio. Gate-post .....	611,568	Sept. 27	2627	606	84	1998
Dohnal, Johan, <i>et al.</i> (See Kassmayer, Morris, assignor.)						
Doig, William S., Brooklyn, N. Y. Cleat-nailing machine .....	600,685	Mar. 15	1939	441 442	82	1627
Dolan, Edward J., Philadelphia, Pa. Valve .....	613,623	Nov. 1	720	167 168	85	754
Dolan, Edward J., Philadelphia, Pa. Gas-burner .....	616,828	Dec. 27	2995	698	85	2050
Dolan, Edward J., Philadelphia, Pa., assignor, by mesne assignments, to Acetylene House Lighting Company, of West Virginia. Acetylene-gas burner .....	596,577	Jan. 4	209	46	82	42
Dolan, Edward J., Philadelphia, Pa., assignor, by mesne assignments, to Acetylene House Lighting Company, of West Virginia. Gas-burner .....	596,578	Jan. 4	210	46	82	42
Dolan, Edward J., Philadelphia, Pa., assignor, by mesne assignments, to Acetylene House Lighting Company, of West Virginia. Acetylene-gas burner .....	597,057	Jan. 11	1054	248	82	222
Dolan, Edward J., Philadelphia, Pa., assignor, by mesne assignments, to Acetylene House Lighting Company, of West Virginia. Acetylene-gas heater .....	597,495	Jan. 18	1804	418	82	384
Dolan, Edward J., Philadelphia, Pa., assignor, by mesne assignments, to Acetylene House Lighting Company, of West Virginia. Acetylene-gas burner .....	602,835	Apr. 26	2164	491	83	456
Dolan, Edward J., Philadelphia, Pa., assignor to Acetylene House Lighting Company, of West Virginia. Acetylene-gas generator .....	604,140	May 17	1673	376	83	974
Dolan, John, Dayton, Ohio. Trolley-controller .....	614,321	Nov. 15	1951	450	85	1031
Dolan, Lawrence H., assignor of one-half to V. Libler, Alexandria, Ind. Paste-mold machine .....	601,092	Mar. 22	2604	594	82	1767
Dolan, Lawrence H., Alexandria, Ind., assignor of one-half to Lippincott Glass Company, Alexandria, Ind., and Cincinnati, Ohio. Glass-blowing machine .....	611,612	Oct. 4	32	7, 8	85	9
Dolan, Lawrence H., Alexandria, Ind., assignor of two-thirds to Lippincott Glass Company, Cincinnati, Ohio. Machine for shaping bottoms of lamp-chimneys .....	612,835	Oct. 25	2239	535	85	472
Dolbee, James. (See Denton, Lemi B., assignor.)						
Doldt, Johann, Ettlingen, Germany. Vertically-lifting platform .....	610,602	Sept. 13	854	196	84	1620
Doldt, John E., Providence, R. I. Locking device .....	608,185	Aug. 2	29	7, 8	84	660
Doldt, John E., East Orange, N. J. Locking device for vehicles, &c .....	608,186	Aug. 2	33	8	84	661
Dolf, Peter, Marquette, Mich. Plant-support for flower-pots .....	597,841	Jan. 25	2393	557	82	515
Dollahan, Thomas E. (See Doty and Dollahan.)						
Dolley, Charles S., assignor of one-half to H. T. Goodwin, Philadelphia, Pa. Electrode for arc-lights .....	606,127	June 21	2020	-----	83	1771
Dolley, Charles S., and M. O. Rehffuss, assignors to Universal Food and Liquid Improving Company, Philadelphia, Pa. Spraying-nozzle .....	600,193	Mar. 8	1083	245	82	1446
Dollfus, Alphonse, Philadelphia, Pa. Bottle-capper and cork-presser .....	602,836	Apr. 26	2166	491	83	456
Dollfus, Alphonse, Philadelphia, Pa. Corking-machine .....	602,837	Apr. 26	2167	491 492	83	456
Doman, Albert E., assignor to Elbridge Electrical Manufacturing Company, Elbridge, N. Y. Brush-holder .....	613,669	Nov. 8	785	180	85	787



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Dommersnas, John P. (See Jones, Arthur, assignor.)						
Don, Alexander, Newark, N. J. Steam or hot-water boiler	596,486	Jan. 4	33	8, 9	82	9
Donaghy, Joseph F., J. Humphrey, and W. Gregg, Ellwood City, Pa. Tube-making machinery	600,144	Mar. 8	1004	234	82	1431
Donahue, James A., Los Angeles, Cal. Bottle-stopper	599,226	Feb. 15	1957	464	82	1007
Donahue, John, Knoxville, Tenn., assignor to Hall & Donahue Coffin Company, of Tennessee. Coffin	602,393	Apr. 12	1391	312	83	280
Donaldson, Arthur D., assignor to J. S. Casement, Painesville, Ohio. Controlling-valve	600,829	Mar. 15	2171	495	82	1671
Donaldson, Fred H., Garvanza, Cal., assignor to N. A. Donaldson, L. R. Williams, and S. Allott. Puzzle	602,735	Apr. 19	1984	450	83	406
Donaldson, Fred H., E. H. Owen, and C. N. Williams, Garvanza, Cal. Gyroscopic toy	609,332	Aug. 16	2181	514	84	1109
Donaldson, Henry T., Fillmore, Ill. Marker for corn-planters	605,702	June 14	1182	272	83	1597
Donaldson, Martin B., and W. Kespohl, Duluth, Minn. Artificial limb	602,386	Apr. 12	1379	308	83	278
Donaldson, Nellie A., <i>et al.</i> (See Donaldson, Fred H., assignor.)						
Donaldson, Robert M. (See Mattison, Charles D., assignor.)						
Donaldson, William, Ludlow, Ky., assignor to American Tool Works Company, Cincinnati, Ohio. Lathe	615,146	Nov. 29	3483	799 800	85	1351
Donaldson, William J., La Grange, Tex. Truck-lifter	615,534	Dec. 6	595	136	85	1527
Donaldson, William R., <i>et al.</i> (See Worth, William O., assignor.)						
Donalty, William R., <i>et al.</i> (See Lapaugh, Louis T., assignor.)						
Donica, Thomas B. (See Donica, William C., assignor.)						
Donica, William C., assignor to himself and T. B. Donica, Grayson, Ind. Kettle-rack	598,862	Feb. 8	1342	325	82	874
Donley, James R., assignor of one-half to H. B. Philbrick, Hartford, Conn. Sand-box	603,266	May 3	42	11	83	609
Donlin, Charles E. (See Luse, Donlin, and Stewart.)						
Donne, Ernest F., London, England, assignor to Kursheedt Manufacturing Company, New York, N. Y. Plaiting-machine	606,651	July 5	26	5, 6	84	7
Donne, Morgan, and C. J. Mathias, London, England. Hinge	602,500	Apr. 19	1567	357 358	83	328
Donnell, James W., <i>et al.</i> (See Coleman, Clyde, assignor.)						
Donnelly, Charles J., Philadelphia, Pa., assignor to Diamond Match Company, of Illinois. Machine for bundling match-splints	615,610	Dec. 6	724	167	85	1555
Donnelly, Henry P., Cincinnati, Ohio. Telegraph-repeater	608,846	Aug. 9	1251	291	84	917
Donnelly, Leo E., and J. H. Looney, Italy, Tex. Stem winding and setting watch	613,411	Nov. 1	363	83	85	685
Donnelly, Patrick, Norwich, Conn. Bouquet-holder	607,636	July 19	2042	423	84	433
Donnelly, Samuel A., Chicago, Ill. Bicycle crank-shaft	608,445	Aug. 2	493	112	84	754
Donner, Frank, Anderson, Ind. Doubling-shears	604,374	May 24	2123	477	83	1082
Donner, Frank, Anderson, Ind. Doubling-shears	606,054	June 21	1884	434	83	1745
Donner, William H., Monessen, Pa. Manufacture of black-plate	615,535	Dec. 6	596	136 137	85	1528
Donohue, John T., Baltimore, Md. Tackle-block	599,122	Feb. 15	1790	427	82	977
Donohue, Patrick J., Robinson, Utah. Lubricator	597,371	Jan. 11	1578	367	82	325
Donohue, Patrick J., and J. F. Corker, Salt Lake City, Utah. Precipitating-safe	597,372	Jan. 11	1580	367	82	325
Donohue, Thomas E. (See Falardeau, Dennis L., assignor.)						
Donovan, James, assignor to Roberts, Throp & Company, Three Rivers, Mich. Foot-guard for railway-switches	609,267	Aug. 16	2067	491	84	1087
Donovan, James, assignor to Roberts, Throp & Company, Three Rivers, Mich. Oat-clipping attachment for corn-shellers	611,807	Oct. 4	370	89	85	74
Donovan, James, assignor to Roberts, Throp & Company, Three Rivers, Mich. Railway-velocipede	611,808	Oct. 4	371	89, 90	85	75
Donovan, John J., Lowell, Mass. Tension device for loom-shuttles	600,520	Mar. 15	1658	378	82	1575
Donworth, Clement B. (See Gould, Edwin F., assignor.)						
Doolittle, Elbridge C., assignor of one-half to A. R. Justice, Philadelphia, Pa. Burnishing-machine	601,461	Mar. 29	3277	741	82	1923
Doolittle, Perry E., Toronto, Canada. Water-jacket for vehicle-brakes	606,959	July 5	556	123	84	110
Doolittle, William W., assignor to Griffin Wheel Company, Chicago, Ill. Molding-machine	612,801	Oct. 18	2153	511 512	85	437
Doolittle, William W., assignor to Griffin Wheel Company, Chicago, Ill. Molding machinery	612,802	Oct. 18	2155	512 513	85	438
Doran, James. (See Lewis, Doran, and Lewis.)						
Doran, James, Pullman, Ill. Nut-lock	605,861	June 21	1509	346	83	1677
Doran, Maurice J., Rochester, N. Y. Chainless bicycle	612,315	Oct. 11	1283	309 310	85	257
Doran, Robert L., Nashville, Tenn. Incandescent vapor-lamp	616,829	Dec. 27	2997	698	85	2050
Doran, Thomas J., New York, N. Y. Hand-operated drill	614,818	Nov. 29	2918	669	85	1241
Dorau, John P., Lark, Wis. Engine	607,836	July 26	2423	514 515 516	84	523
Dorau, John P., Lark, Wis. Valve-gear for engines	607,837	July 26	2431	516 509	84	524
Dorchester, Edward G., Geneva, N. Y. Cyclometer	599,320	Feb. 22	2144	510 511	82	1065
Doré, Elzear, Laprairie, Canada. Cultivator	612,964	Oct. 25	2447	583	85	513
Doremus, Victor E., Brooklyn, assignor, by mesne assignments, of one-half to P. T. Wall, New York, N. Y. Driving-gear	599,321	Feb. 22	2148	510	82	1066
Doremus, Victor E., assignor of one-half to P. T. Wall, New York, N. Y. Back-pedaling brake	612,129	Oct. 11	956	231	85	197
Dorion, John H., Springfield, Mass. Support and take-up device for cable-suspended electric lamps	616,607	Dec. 27	2589	601	85	1968
Dorn, Christian, Philadelphia, assignor to H. P. Hess, Easton, Pa. Oil-filter	603,587	May 3	625	139	83	723
Dorn, Emil, <i>et al.</i> (See Barker, Henry C., assignor.)						
Dorn, Herman E. (See Deitsch and Dorn.)						
Dornan, John, Buffalo, N. Y. Rotary engine	601,413	Mar. 29	3197	721	82	1907
Dorner Truck and Manufacturing Company. (See Crumrine and Skov, assignors.)						
Dornfeld, John F., Chicago, Ill. Malt-kiln	610,580	Sept. 13	812	186	84	1611
Dorpol, Cornelius P., Berwyn, Ill. Ornamenting glass	615,479	Dec. 6	492		85	1507
Dorr, Edgar S. (See Sanborn, Henry W., assignor.)						
Dorr, Edgar S., assignor of one-half to H. V. Sanborn, Boston, Mass. Manhole-frame	599,441	Feb. 22	2397	563	82	1115
Dorr, Edward, assignor of one-fourth to V. Dorr, Princeton, Ky. Automatic railway-gate	600,307	Mar. 8	1267	289	82	1481
Dorr, Stephen F. (See Prosser and Dorr.)						
Dorr, Valentine. (See Dorr, Edward, assignor.)						
Dorrance, Ralph G., Chicago, Ill. Inkstand	608,283	Aug. 2	197	47	84	694
Dorris, Jesse W., <i>et al.</i> (See Wendeborn, Ernest C., assignor.)						
Dorschell, Lucas D. (See Moehn, John N., assignor.)						
Dorsey, Charles H. (See Apperson and Dorsey.)						
Dorsey, Elmer F., Kansas City, Kans. Fountain-brush	615,063	Nov. 29	3344	767	85	1324
Dorsey, James M., Toronto, assignor of forty-nine one hundredths to R. E. Dorsey, East Palestine, Ohio. Churn-power	616,830	Dec. 27	2998	698	35	2050



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Dorsey, Robert E. (See Dorsey, James M., assignor.)						
Dorsey, Robert L., assignor to Tucker & Dorsey Manufacturing Company, Indianapolis, Ind. Caster	604,520	May 24	2391	543	83	1130
Dortch, John M., Cleveland, assignor to Cochran Company, Lorain, Ohio. Safety device for refrigerating systems	610,438	Sept. 6	557	123	84	1545
Doss, Mikey, El Dorado, Ark. Cotton-plow	604,309	May 17	1995	447	83	1037
Dotson, Ira M., Sanborn, Minn. Pulley-block	610,172	Sept. 6	35	8	84	1448
Dottinger, John. (See Thompson, Henry G., assignor.)						
Doty, Aaron B., assignor of one-half to C. A. Nelson, Minneapolis, Minn. Attachment for sharpening lawn-mowers	606,333	June 28	2428	561	83	1871
Doty & Co., W. W., <i>et al.</i> (See Doty, MacKnight, and Grauten, assignors.)						
Doty, James, Syracuse, N. Y. Electrical appliance for assisting anatomical organs	609,614	Aug. 23	2706	631	84	1226
Doty, James R., and T. E. Dollahan, Birds, Ill. Grain-truck	611,613	Oct. 4	35	8	85	10
Dougherty, William, assignor of one-third to C. M. Black, Chester, Pa. Boiler-cleaner and filter	607,004	July 5	657	143	84	130
Doty, William W., New York, J. A. MacKnight, Mount Vernon, and C. Grauten, assignors, by mesne assignments, to W. W. Doty & Co. and W. Reinhart, New York, N. Y. Electric railway	607,351	July 12	1337	286	84	276
Doucet, Felix, Melrose, Mass. Sail-controlled keel	604,930	May 31	3105	714	83	1286
Doud, Bennie M. (See Robinson and Doud.)						
Dougherty, Anthony, Waverly Mills, Minn. Car-coupling	611,066	Sept. 20	1651	378	84	1794
Dougherty, James F., Philadelphia, Pa. Acetylene-gas generator	613,976	Nov. 8	1324	301	85	890
Dougherty, William H., New York, N. Y. Rotary motor	613,255	Nov. 1	49	12	85	626
Dougherty, William M., St. Joseph, Mo. Balloting-machine	614,800	Nov. 22	2810	645	85	1206
Doughty, George E., New York, assignor to Carter-Crume Company, Niagara Falls, N. Y. Manifold-book	612,197	Oct. 11	1066	256	85	218
Doughty, Henry J., Providence, R. I., assignor to Atlantic Rubber Company, of Maine. Pneumatic tire	608,187	Aug. 2	36	9	84	662
Doughty, Henry J., Providence, R. I., assignor to Atlantic Rubber Company, of Maine. Pneumatic tire	608,188	Aug. 2	38	9	84	662
Doughty, Herman W. (See Beach and Doughty.)						
Doughty, John, Philadelphia, Pa. Umbrella-rib	597,105	Jan. 11	1144	270	82	239
Doughty, John, Philadelphia, Pa. Bicycle-bell	597,106	Jan. 11	1145	271	82	239
Doughty, John G., Winsted, Conn. Currying implement	600,194	Mar. 8	1085	245	82	1446
Douglas, Benjamin F., Mount Union, Pa. Grave-vault	606,652	July 5	29	6	84	8
Douglas, Charles H., Chicago, Ill. Saw-tooth-ribbing machine	601,999	Apr. 5	716	152	83	135
Douglas, Charles H., Chicago, Ill. Saw-sharpener	603,007	Apr. 26	2460	560	83	511
Douglas, George W., assignor to Market Street Railway Company, San Francisco, Cal. Car-fender	601,242	Mar. 29	2878	656	82	1847
Douglas, John, and V. Hansen, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Bottle-cover-sewing machine	600,521	Mar. 15	1659	378	82	1575
Douglas, Ralph W., St. Joseph, Mo. Marshmallow-runner	597,637	Jan. 18	2028	473	82	429
Douglas, Ralph W., St. Joseph, Mo. Marshmallow-runner	602,899	Apr. 26	2265	516	83	474
Douglas, Robert, Ravena, N. Y. Filtering apparatus	608,655	Aug. 9	878	202	84	848
Douglas, Walter. (See Farrell and Douglas.)						
Douglas, William. (See Landon, George A., assignor.)						
Douglas, William A., Bronson, Mich. Wheel-cultivator appliance	606,835	July 5	378	80	84	75
Douglas, William B. (See Easker, John, assignor.)						
Douglas, William E. <i>et al.</i> (See Sherwood, William E., assignor.)						
Douglas, William M., Fletcher, Ohio. Corn-row marker	607,021	July 12	692	150	84	157
Douglass, J. Walter. (See Reitzenbaum, Selmar, assignor.)						
Douglass, Leon F., assignor to C. Dickinson, Chicago, Ill. Talking-machine	613,670	Nov. 8	787	180	85	787
Douglass, Samuel, Texas, Mich. Cutting mechanism for harvesters or mowers	597,400	Jan. 18	1630	379	82	351
Douglass, Samuel, Texas, Mich. Pitman-coupling	600,522	Mar. 15	1663	379	82	1575
Douglass, Thomas, Sarversville, Pa. Motor	616,090	Dec. 20	1601	373	85	1755
Douglass, William A., Venice, Mo. Chicken-coop	597,214	Jan. 11	1316	307	82	271
Douglass, William S., Bellevue, Tex. Windmill	610,322	Sept. 6	349	75	84	1508
Douglass, William W., Kansas City, Mo. Current-motor	612,091	Oct. 11	893	216	85	185
Doulin, William P., and F. W. Raymond, Wheeling, W. Va. Annealing-pot	612,713	Oct. 18	1991	472	85	405
Doust, Joseph. (See Dunn, Robert H., assignor.)						
Dove, Thoms F., assignor of one-third to W. R. Roland, Cotton Gin, Tex. Cotton and corn scraper	604,207	May 17	1802	405	83	1000
Dover, George W., Providence, R. I. Gem-setting	608,362	Aug. 2	348	76	84	725
Dover, Horace W., Northampton, England. Gear-case	601,505	Mar. 29	3352	759	82	1939
Dover Stamping Company. (See Whitney, Edward H. and H. E., assignors.)						
Dow Brothers, <i>et al.</i> (See Russell, William, assignor.)						
Dow, Fred F., assignor, by mesne assignments, to Dow Machinery Manufacturing Company, Lynn, Mass. Machine for felling trees	610,230	Sept. 6	166	37,38	84	1474
Dow, George N. (See Van Steeter and Dow.)						
Dow, George N., and H. Stern, Cleveland, Ohio. Cushion-cleaning machine	603,828	May 10	1071	239	83	824
Dow Machinery Manufacturing Company. (See Dow, Fred F., assignor.)						
Dow, Richard F. (See Harper and Dow.)						
Dow, Willard E., Braintree, Mass. Electric light for surgical purposes	608,109	July 26	2919	625	84	621
Dowagiac Manufacturing Company. (See Hoyt, Will F., assignor.)						
Dowd Electric Company. (See Dowd, Peter A., assignor.)						
Dowd, Peter A., assignor to Dowd Electric Company, Boston, Mass. Electric lamp for bicycles	598,198	Feb. 1	220	51	82	644
Dowdy, James A. (See McLane and Hardgrave, assignors.)						
Dowdy, James A., Clarksville, Ark. Lace, ribbon, or belt reel	596,988	Jan. 11	932	220	82	198
Dowell, Albert L., assignor of one-half to J. Garlick, Paterson, N. J. Gas-burner	610,263	Sept. 6	220	50	84	1485
Dowell, Julian C. (See Richardson, James E., assignor.)						
Dowlen, James, and N. Michaelsen, Oceanic, N. J. Merchandise-lifter	609,013	Aug. 16	1571	374	84	993
Dowling, Gabrel P., Ozark, Ala. Cotton-scraper	603,426	May 3	318	71	83	660
Dowling, John, Altoona, Pa. Seal-lock	606,408	June 28	2563	593	83	1896
Dowling, Robert H., assignor of one-half to W. H. Snyder, Newark, Ohio. Car-coupling	608,764	Aug. 9	1062	244	84	883
Down, Thomas, assignor of one-half to J. Jeffrey, Toronto, Canada. Chemical engine	611,030	Sept. 20	1592	365	84	1783
Downa, Ella V., administratrix. (See Downa, James R.)						
Downa, James R., deceased, (E. V. Downa, administratrix,) assignor of two-thirds to W. E. Taylor and C. C. Blair, Gate City, Va. Railway-switch	596,859	Jan. 4	706	162	82	138
Downer, John M., Toronto, Canada. Bicycle-brake	606,334	June 28	2429	562	83	1871
Downer, William S., Coal Centre, Pa. Clothes-rack	607,683	July 19	2120	444	84	447
Downes, George. (See Esty, Andrew, assignor.)						
Downes, James F., New York, N. Y. Expansion-bolt	612,316	Oct. 11	1285	310	85	258
Downes, William A., assignor to Penberthy Injector Company, Detroit, Mich. Injector	607,227	July 12	1120	240	84	233



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Downey, Andrew A., Armstrong, Ill. Game-trap.....	601,243	Mar. 29	2880	656	82	1847
Downey, Andrew A., Armstrong, Ill. Farm-gate.....	605,948	June 21	1677	384	83	1709
Downey, Peter F., Mount Vernon, N. Y. Advertising-sign.....	612,895	Oct. 25	2343	557	85	491
Downey, Richard F., assignor of one-half to C. A. McGinley and F. Gregory, Menominee, Mich. Detachable runner for wheeled vehicles.....	615,687	Dec. 13	866	199	85	1595
Downie, David, <i>et al.</i> (See Chater, William, assignor.)						
Downie, James K., Valley River, Canada. Wrench.....	604,375	May 24	2124	477	83	1082
Downing, Arnold M., Kansas City, Mo. Detachable front for plug-tobacco boxes.....	599,552	Feb. 22	2598	609	82	1153
Downing, Arnold M., Kansas City, Mo. Detachable front for plug-tobacco boxes.....	613,256	Nov. 1	51	13	85	627
Downing, Charles L. (See McGee and Downing.)						
Downing, George H., New York, N. Y. Portable fire-extinguisher.....	607,113	July 12	898	195	84	192
Downing, John H., Portsmouth, Va. Label-holder.....	610,346	Sept. 6	395	84	84	1416
Downing, William E., Des Plaines, Ill. Alarm device.....	596,989	Jan. 11	933	221	82	198
Downs, Charles K., Seymour, Iowa. Thread-cutting attachment for thimbles.....	610,264	Sept. 6	221	50	84	1485
Downs, J. Willis. (See Goodell, Dexter W., assignor.)						
Downs, Richard, and A. M. Johnston, Lima, Ohio. Automatic steam-boiler feeder.....	607,509	July 19	1809	376	84	390
Dowse, William B. H., Newton, Mass., assignor to Consolidated Fastener Company, Portland, Me. Corset-fastening.....	607,022	July 12	694	150	84	157
Dowse, William B. H., Newton, Mass., assignor to Consolidated Fastener Company, Portland, Me. Corset.....	607,023	July 12	695	151	84	157
Doxey, Richard A., <i>et al.</i> (See Beastow, William H., assignor.)						
Doyen, Eugene L., Paris, France. Forceps.....	614,708	Nov. 22	2658	606	85	1175
Doyle, Arthur, Seattle, Wash. Steering-gear for bicycles.....	615,961	Dec. 13	1351	316	85	1688
Doyle, George, Brookline, Mass. Electric switch.....	599,692	Mar. 1	27	7	82	1221
Doyle, George M., assignor of three-fourths to P. Roop, S. B. Poteet, and A. C. McNiel, Jr., Jonesville, Va. Wire-stretcher.....	606,523	June 28	2752	636	83	1936
Doyle, George N. (See Stark and Doyle.)						
Doyle, John. (See Dredge and Doyle.)						
Doyle, John. (See Moore and Doyle.)						
Doyle, John, Hoboken, N. J., assignor of one-half to E. I. Horsman, New York, N. Y. Kite.....	606,960	July 5	558	123	84	111
Doyle, Michael V., assignor of one-half to C. E. Sovereign, Rockford, Ill. Machine for cutting washers.....	613,363	Nov. 1	259	58	85	667
Doyle, Philip J., Memphis, Tenn. Clamp for handling hydraulic hose.....	601,639	Apr. 5	27	6	83	7
Doyle, Thomas, assignor of one-half to H. A. Gorsline, Fort Wayne, Ind. Mail-pouch fastener.....	598,139	Feb. 1	110	27	82	623
Doyle, Thomas M., assignor of one-half to M. Wahrer, Fort Madison, Iowa. Gas or gaso- lene engine.....	602,556	Apr. 19	1665	378 379	83	345
Doyle, William, and E. Cartwright, Milwaukee, Wis. Rolls for straightening metal rails and bars.....	598,140	Feb. 1	111	27	82	624
Doyle, William H. (See Cameron, John M., assignor.)						
Dozier, James C., Louisville, Ky. Crate.....	609,879	Aug. 30	3156	737	84	1328
Dozier, James N., Lexington, Mo. Wire-stretching machine.....	609,086	Aug. 16	1704	406	84	1017
Drabsch, Adolf W. R. (See Löb, Barlow, and Drabsch.)						
Drackett, John R., S. S. Simms, and G. Hitchcock, Ramos, La.; said Hitchcock assignor to said Drackett and Simms. Rope-grip.....	615,822	Dec. 13	1099	258	85	1641
Drainage Construction Company. (See Waring, George E., Jr., assignor.)						
Drake, Charles, Mannington, W. Va. Clothes-drier.....	603,132	Apr. 26	2677	607	83	554
Drake, Dudley, Newark, N. J. Rotary engine.....	603,679	May 10	798	176	83	773
Drake, Joseph C., Capron, Va. Peanut-planter.....	601,130	Mar. 22	2668	610	82	1780
Drake, Leroy, Shelton, Nebr. Churn.....	615,147	Nov. 29	3487	800	85	1352
Drake, Thomas C., Malta, Ohio. Electric selector system.....	605,309	June 7	479	108	83	1443
Drake, Thomas C., Malta, Ohio. Selector signaling system.....	605,688	June 14	1155	268	83	1593
Drake, Thomas C., Malta, assignor, by mesne assignments, of one-third to J. M. Rusk, } McConnellsville, Ohio. Individual telephone-call.....	599,322	Feb. 22	2149	510 511	82	1066
Drake, Warren A., Chicago, Ill. Arithmetical calculator.....	614,849	Nov. 29	2919	670	85	1241
Drake, Warren A., Chicago, Ill. Arithmetical calculator.....	614,850	Nov. 29	2922	671	85	1242
Drake, Warren A., Chicago, Ill. Interest-calculator.....	614,851	Nov. 29	2925	671 672	85	1242
Drake, William D., Cleveland, Ohio. Car-roof.....	612,024	Oct. 11	772	191	85	161
Draper, Charles A., <i>et al.</i> (See Myers, Francis M., assignor.)						
Draper Company. (See Allen, William E., assignor.)						
Draper Company. (See Armstead, Michael J., assignor.)						
Draper Company. (See Beardsell, Arthur W., assignor.)						
Draper Company. (See Bracken, Howard W., assignor.)						
Draper Company. (See Cutler, Willie E., assignor.)						
Draper Company. (See Darling, Edwin A., assignor.)						
Draper Company. (See Davenport, Edward W., assignor.)						
Draper Company. (See Draper, George O., assignor.)						
Draper Company. (See Draper, William F., assignor.)						
Draper Company. (See Eaton, Willie G., assignor.)						
Draper Company. (See Emond and Labée, assignors.)						
Draper Company. (See Hinchliffe, William, assignor.)						
Draper Company. (See Littlefield, Charles A., assignor.)						
Draper Company. (See Marcy, Frank M., assignor.)						
Draper Company. (See Morton, Worthington E., assignor.)						
Draper Company. (See Nicol and Ayotte, assignors.)						
Draper Company. (See Northrop, James H., assignor.)						
Draper Company. (See O'Connell, James P., assignor.)						
Draper Company. (See Painchaud, Ludger, assignor.)						
Draper Company. (See Pearson, Robert P., assignor.)						
Draper Company. (See Rhoades, Alonzo E., assignor.)						
Draper Company. (See Roper, Charles F., assignor.)						
Draper Company. (See Rosencrantz, William D., assignor.)						
Draper Company. (See Storrs, Harry A., assignor.)						
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom.....	596,487	Jan. 4	36	9	82	10
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle-bearing.....	605,703	June 14	1183	273	83	1598
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle-bearing.....	608,976	Aug. 9	1483	350	84	960
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle and bearing.....	609,757	Aug. 23	2942	688	84	1272
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle and bearing.....	609,758	Aug. 23	2943	688	84	1273
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle and bearing.....	609,759	Aug. 23	2943	688	84	1273



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Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle and bearing	609,760	Aug. 23	2944	688	84	1273
Draper, Harvey H., Arkansas City, Kans. Bicycle-support	606,128	June 21	2020	463	83	1771
Draper, Harvey H., assignor to T. S. Murray, Arkansas City, Kans. Picture lifter and hanger	615,962	Dec. 13	1352	316	85	1688
Draper Machine Tool Company. (See Wheeler, Benjamin A., assignor.)						
Draper & Sons, George. (See Northrop, James H., assignor.)						
Draper, Sutton H., Missoula, Mont. Rotary engine	607,684	July 19	2121	444 445	84	447
Draper, William F., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom-shuttle	616,297	Dec. 20	2016	469	85	1839
Draper, William F., and J. H. Northrop, Hopedale, Mass., assignors to Northrop Loom Company, Hopedale, Mass., and Saco, Me. Loom	607,838	July 26	2434	517	84	525
Draver, Emil R., assignor, by mesne assignments, of one-half to M. L. Draver, Stillwater, Minn. Dust-collector	608,587	Aug. 9	749	172 173	84	824
Draver, Marie L. (See Draver, Emil R., assignor.)						
Drawbaugh, Daniel, Eberly's Mill, assignor of one-half to H. B. Eberly, Shiremanstown, Pa. Pneumatic tool	606,961	July 5	559	123 124	84	111
Draue, Jennie, assignor of three-fifths to J. Draue and W. Perren, Marine City, Mich. Invalid-rest	603,756	May 10	920	204	83	796
Draue, John, <i>et al.</i> (See Draue, Jennie, assignor.)						
Drayer, Ulysses S., Reading, Pa. Vehicle-wheel	598,913	Feb. 15	1435	345	82	909
Dredge, John, assignor to J. Welsh, Newtown, New South Wales. Driving mechanism for cycles	597,963	Jan. 25	2594	607	82	553
Dredge, Joseph F., and J. Doyle, Connersville, Ind. Liquid-distributing faucet and pipe-cleaner	603,465	May 3	399	89	83	678
Dreher, Carl, assignor to C. H. Boehringer Sohn, Nieder Ingelheim, Germany. Mordanting	597,107	Jan. 11	1146		82	240
Dreher, Carl, assignor to C. H. Boehringer Sohn, Nieder Ingelheim, Germany. Mordanting wool	597,401	Jan. 18	1632		82	351
Dreisbach, Stephen S., Catawissa, Pa. Vegetable-slicer	599,323	Feb. 22	2153	511	82	1067
Dresdner, Isidor, Brooklyn, N. Y. Plucking-machine	605,311	June 7	484	108	83	1444
Dresher, Edward C., <i>et al.</i> (See Reidenbaugh, John, assignor.)						
Dressel, Charles H., Mount Vernon, N. Y. Lamp-burner	612,562	Oct. 18	1713	406	85	353
Dressel, Charles H., New York, N. Y. Signal-lamp	613,562	Nov. 1	618	143	85	734
Dressel, Frederick W., New York, N. Y. Electric headlight	603,876	May 10	1159	261	83	842
Dresser, Daniel L., Flushing, N. Y. Engine	602,059	Apr. 12	810	175 176	83	165
Drew, Emma H., <i>et al.</i> (See Drew, John, assignor.)						
Drew, Herbert H., Waterloo, Wis. Elevated carrier	608,656	Aug. 9	880	202	84	848
Drew, John, assignor to E. H. Drew, Lockport, and V. F. Coons, Buffalo, N. Y. Horse-shoe	616,413	Dec. 20	2225	519	85	1879
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	600,413	Mar. 8	1436	323	82	1514
Drewett, William A., Brooklyn, N. Y. Valve-operating device	603,399	May 3	268	60	83	651
Drey, Wilfred J., Philadelphia, Pa. Shoe and welt therefor	600,771	Mar. 15	2081	477	82	1655
Drey, Wilfred J., Philadelphia, Pa. Welt-guide	610,323	Sept. 6	350	75	84	1508
Dreyer, Richard, Sea Cliff, N. Y. Spout for cans	610,737	Sept. 13	1067	245	84	1664
Driffield, Vero C., Widnes, A. Carey, Liverpool, and F. W. Wright, Widnes, assignors to United Alkali Company, Limited, Liverpool, England. Process of and apparatus for making bleaching-powder	610,265	Sept. 6	222	50	84	1485
Driggs, Edward H., Berkeley, Cal. Self-feeding oil-stove	603,322	May 3	138	32	83	628
Driggs, Gertrude. (See Myers, Elmer, assignor.)						
Driggs, Gertrude. (See Stadtfeld, Charles, assignor.)						
Driggs, Hugh H., Palmyra, Mich. Show-case	615,438	Dec. 6	413	99	85	1493
Driggs, Louis L., New York, N. Y., and V. C. Tasker, Washington, D. C.; said Tasker assignor to Driggs-Seabury Gun and Ammunition Company, New York, N. Y. Rapid-fire gun	613,195	Oct. 25	2808	663	85	586
Driggs-Seabury Gun and Ammunition Company. (See Driggs and Tasker, assignors.)						
Driggs-Seabury Gun and Ammunition Company. (See Lewis, Isaac N., assignor.)						
Drinkaus, Philipp, Detroit, Mich. Picture-matting cutter	611,238	Sept. 27	1993	460	84	1879
Drinkwater, Miles B., Wilson, assignor to S. H. Morris, Niagara Falls, N. Y. Apparatus for spraying insecticide solutions	615,963	Dec. 13	1353	317	85	1689
Driscoll, Richard, assignor of one-half to W. P. Driscoll, Brockville, Canada. Mouth-piece for wind instruments	612,714	Oct. 18	1992	472	85	405
Driscoll, William, Brockville, Canada. Sash-balance	609,930	Aug. 30	3239	758	84	1345
Driscoll, William P. (See Driscoll, Richard, assignor.)						
Driver, Charles H., Racine, Wis. Sandpapering-machine	598,671	Feb. 8	1038	250	82	816
Drohan, Thomas E., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Quick-break electric switch	600,523	Mar. 15	1665	379	82	1576
Dromgold, Walker A., York, Pa. Hitch-iron for harrows	613,502	Nov. 1	526	119	85	716
Drosch, Charles. (See Wirth, Henry, assignor.)						
Drouard, Jean A. (See Durel and Drouard.)						
Drouvé, Gerhard F., Bridgeport, Conn. Valley for roofs	607,425	July 19	1486	316	84	320
Drucklieb, Charles A., <i>et al.</i> (See Sticker, Francis, assignor.)						
Drucklieb, Julius C., <i>et al.</i> (See Sticker, Francis, assignor.)						
Drühl, Woldemar, Riga, Russia. Steam-ram	613,977	Nov. 8	1327	302	85	890
Drum, Harry C. (See Johnson and Smith, assignors.)						
Drummond, Charles S., London, England, assignor, by mesne assignments, to Esmond Cycle Saddle Company, New York, N. Y. Saddle for bicycles	602,839	Apr. 26	2170	492	83	456
Drummond, David D., assignor of one-half to Heldmaier & New, Chicago, Ill. Grading-machine	600,999	Mar. 22	2461	560 561	82	1739
Drummond, Richard O. G., <i>et al.</i> (See Blackmore, Sidney P., assignor.)						
Drummond, Seigle, assignor to W. Lumley, Chicago, Ill. Letter or bill file	602,838	Apr. 26	2169	492	83	456
Drury, William H., Waltham, Mass. Manufacturing yarn from fibrous materials	611,108	Sept. 20	1737	399 400	84	1811
Drury, William H., Waltham, Mass. Machinery for manufacturing yarn from fibrous materials	611,109	Sept. 20	1745	400 401	84	1812
Drysdale, Moses J., and H. Raburn, Bardwell, Ky. Fruit-picker	606,524	June 28	2753	636	83	1936
Drysdale, Stephen H., Gravois Mills, Mo. Wagon-bed raiser	609,796	Aug. 30	3015	706	84	1300
Drysdale, William A., Philadelphia, Pa. Telephone	610,347	Sept. 6	396	84, 85	84	1516
Du Bois, Archibald A., Philadelphia, Pa. Advertising device	613,503	Nov. 1	527	119	85	716
Du Bois, Dallas, Montclair, N. J. Passage-way for bulkheads and partitions	608,189	Aug. 2	39	9	84	662
Du Bois, Howard M., Ashbourne, Pa. Wheel and tiring same	613,257	Nov. 1	52	13	85	627
Du Brul, Napoleon, Cincinnati, Ohio. Cigar-branding machine	596,860	Jan. 4	707	163	82	138
Du Brul, Napoleon, Cincinnati, Ohio. Cigar-wrapper-cutting machine	599,227	Feb. 15	1958	464	82	1007



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Du Brul, Napoleon, Cincinnati, Ohio. Wrapper-cutter	599,228	Feb. 15	1959	464	82	1007
Du Brul, Napoleon, Cincinnati, Ohio. Cigar-wrapper-cutting machine	606,129	June 21	2022	463	83	1772
Du Cane, Herbert, Darwen, England. Composition of matter for closing punctures in tires	608,956	Aug. 9	1447	-----	84	953
Du Pont, Antoine B., Detroit, Mich., assignor to Steel Motor Company, Johnstown, Pa. Electric-line switch	607,638	July 19	2045	425	84	434
Du Pont, Francis G., Wilmington, Del. Process of and apparatus for making smokeless powder. (Reissue)	11,651	Feb. 15	2126	505	82	1089
Du Pont, Thomas C., Johnstown, Pa. Bicycle-carrier	615,264	Dec. 6	82	22	85	1429
Du Pont, Thomas C., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Machine for manufacturing railway track structures	601,527	Mar. 29	3389	768	82	1947
Dubar, Charles L., <i>et al.</i> (See Bourne, Philip, assignor.)						
Dubbs, Jesse A., assignor of one-half to J. H. White, Pittsburg, Pa. Asphaltum and manufacturing same	608,372	Aug. 2	362	-----	84	727
Dubbs, Jesse A., assignor of one-half to W. Flinn, Pittsburg, Pa. Treating garbage and noxious gases	615,439	Dec. 6	414	99	85	1493
Dubé, Louis T., Paris, France, assignor of one-half to R. N. Archer, Lenoir City, Tenn. Electric signal device for railways	611,897	Oct. 4	530	129	85	105
Duboeay, Percy N., de, Tallulah, Ga. Revolving book-rest	602,736	Apr. 19	1985	450	83	406
Dubois Cushion Tire Company. (See Rankin, James M., assignor.)						
Dubuisson, Adonis, Brussels, Belgium. Process of and apparatus for sterilizing butter, &c.	598,561	Feb. 8	844	201	82	780
Ducas, Salomon, San Francisco, Cal. Voting-machine	609,576	Aug. 23	2616	612 613	84	1210
Ducasble, Alfred, Paris, France. Elastic tire	596,488	Jan. 4	39	9	82	10
Ducat, Walter M., London, England. Purifying sewage, &c., by bacterial action	607,426	July 19	1487	316	84	320
Duchemin, Edmund H., Newburyport, Mass. Curtain	597,402	Jan. 18	1633	379 380	82	351
Duckett, Joseph D., Glasgow, Scotland, and W. Badger, Rotherham, England. Machine for sand-molding	603,267	May 3	44	11, 12	83	609
Duckham, Frederic E., London, England. Method of and means for delivering pneumatically-conveyed grain, &c.	611,569	Sept. 27	2629	606	84	1998
Duddleston, Christopher J. (See Kramer, George N., assignor.)						
Dudek, John, Campbell, Nebr. Breechy-cattle yoke	614,445	Nov. 22	2185	501	85	1089
Duden, Hans, Indianapolis, Ind. Making fertilizers	609,797	Aug. 30	3016	-----	84	1300
Dudley, John S., Marion, Ohio. Copy-holder	599,772	Mar. 1	171	42	82	1248
Dudley, John W., assignor to L. C. Rollo, Chicago, Ill. Piston-rod packing	601,614	Mar. 29	3518	802	82	1972
Dudley, John W., assignor to J. C. Williams, Chicago, Ill. Metallic packing	616,867	Dec. 27	3127	724	85	2076
Dueber, John C., Canton, Ohio. Watch-guard link	597,269	Jan. 11	1399	328	82	287
Duensing, Henry C., Beecher, Ill. Traction-wheel	604,006	May 10	1423	318	83	897
Duerst, Casper. (See Staub and Duerst.) (Reissue.)						
Duesler, Francis H., Fonda, N. Y. Pruning implement	597,538	Jan. 18	1867	433	82	397
Duff, Cyrille, Millbury, Mass. Snow-plow	615,688	Dec. 13	867	199	85	1595
Duff, Edward J., assignor to United Alkali Company, Limited, Liverpool, England. Evaporating apparatus	598,079	Feb. 1	15	4, 5	82	606
Duff, Robert D., assignor of one-fourth to J. E. Johnson, Tacoma, Wash. Sash-lock	610,155	Aug. 30	3628	843	84	1424
Duffek, Arthur, assignor of one-half to J. Kohn, Vienna, Austria-Hungary. Petroleum-lamp for incandescent lights	602,900	Apr. 26	2266	517	83	475
Duffner, Matthew, Allegheny, Pa. Advertising device	603,057	Apr. 26	2531	575	83	525
Duffus, William C., <i>et al.</i> (See Tomlinson, James, assignor.)						
Duffy, Joseph, Paterson, N. J. Spindle	602,254	Apr. 12	1155	253	83	232
Duffy, Patrick, assignor of one-half to J. F. Powers, New Bedford, Mass. Temple for looms	615,536	Dec. 6	599	137	85	1528
Duffy, William, East Hartford, Conn. Anvil attachment for repairing horseshoe-calks	609,014	Aug. 16	1572	374	84	993
Dufree, William H., Elgin, Ill. Composition of matter for building-brick	597,078	Jan. 11	1097	-----	82	230
Dugan, Charles N. (See Manning and Robison, assignors.)						
Dugan, George H. (See Frederick and Dugan.)						
Dugan, John A., <i>et al.</i> (See Scott, William F., assignor.)						
Duggan, Joseph W. (See Coleman and Duggan.)						
Duis, Albert, Streator, Ill. Tank-heater	616,185	Dec. 20	1804	417	85	1795
Duitman, John L., Alto, Wis. Latch	600,952	Mar. 22	2379	542	82	1725
Duke, Gervaise G., Chicago, Ill. Electrotherapeutic apparatus	603,815	May 10	1036	231	83	819
Dukes, John C., Ellston, Iowa. Floor-laying machine	608,847	Aug. 9	1252	292	84	917
Dull, Calvin J. (See Gwinner, William H., assignor.)						
Dumaw, Charles, Jr., assignor of one-half to I. Piercy, Cheboygan, Mich. Countersinker	605,407	June 7	675	150	83	1482
Dumble, William K., Houston, Tex. Polisher or brush	604,027	May 17	1463	328	83	935
Dumke, Charles, Waterloo, Wis. Skate	600,908	Mar. 22	2306	526	82	1710
Dumond, Alonzo A., Rochester, N. Y. Process of and apparatus for testing plumbing	613,504	Nov. 1	529	119	85	716
Dunbar, Alexander, Liverpool, England. Apparatus for trussing, chiming, and crozing casks or barrels	599,057	Feb. 15	1688	400	82	958
Dunbar Brothers. (See Sanford, Leverett A., assignor.)						
Dunbar, Deloss H., Jr., <i>et al.</i> (See Gannoe, Thomas A., assignor.)						
Dunbar, Miles E., Stockbridge, Mass. Folding bicycle-crate	603,443	May 3	347	78	83	666
Duncan, Andrew M., assignor of one-half to D. D. Shirley, Allerton, Iowa. Caponizer	604,737	May 31	2785	637	83	1225
Duncan, Henry B. (See Marley, Samuel S., assignor.)						
Duncan, James E., Centralia, Wis. Computing-scale	597,607	Jan. 18	1982	462	82	421
Duncan, James H., assignor to R. B. Elder, San Francisco, Cal. Electric-arc lamp	600,277	Mar. 8	1225	278	82	1473
Duncan, James W. (See Jordan and Duncan.)						
Duncan, Nathaniel P., Hanford, Cal. Attachment for sewing-machines	600,111	Mar. 1	887	204	82	1387
Duncan, Robert B. U. H. J., Leicester, England. Roller-bearing wheel	615,198	Nov. 29	3488	801	85	1352
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,459	May 24	2275	510 511	83	1111
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,460	May 24	2280	512 513	83	1111
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,461	May 24	2282	513 514	83	1112
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,462	May 24	2285	514 515	83	1112
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,463	May 24	2287	516 517	83	1112
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,464	May 24	2290	517 518 519	83	1113
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,465	May 24	2293	519 520	83	1113
Duncan, Thomas, Fort Wayne, Ind. Electric meter	604,466	May 24	2296	521 522	83	1114



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Duncan, Thomas, Fort Wayne, Ind. Electric meter .....	605,665	June 14	1116	257 258	83	1585
Duncan, Thomas, Fort Wayne, Ind. Electric meter .....	605,862	June 21	1510	346 347	83	1677
Duncan, Thomas, Fort Wayne, Ind. Electric meter .....	605,949	June 21	1678	384 385	83	1709
Duncan, William, Norrisville, Md. Fence .....	598,625	Feb. 8	960	232	82	802
Dundas, Thomas D., and G. Senior, London, England; said Senior assignor to said Dundas. Power-transmitting chain .....	601,748	Apr. 5	246	48	83	47
Dunderdale, Cleaveland F., assignor of one-half to J. F. Pershing, Chicago, Ill. Telephone-switchboard apparatus .....	599,553	Feb. 22	2599	609 610	82	1153
Dundon, Patrick F., San Francisco, Cal. Steam-boiler .....	611,407	Sept. 27	2331	537 538	84	1942
Dundon, Patrick F., San Francisco, Cal. Mixing-machine .....	612,317	Oct. 11	1286	310	85	258
Dunford, Errington. (See Dunford and Emens.)						
Dunford, Robert L. and E., Newcastle-upon-Tyne, and G. Emens, Hetton-le-Hole, England. Match box, stand, or receptacle having automatic striking action .....	615,611	Dec. 6	728	168	85	1556
Dunham, Charles A., <i>et al.</i> (See Halligan, Samuel, assignor.)						
Dunham, Frederick, Deering, Me. Bicycle-support .....	615,612	Dec. 6	730	168	85	1556
Dunham Machine Company. (See Dunham, William L., assignor.)						
Dunham, Sumner T. (See Thomas, Harold L., assignor.)						
Dunham, William L., Washington, D. C., assignor to Dunham Machine Company, Alexandria, Va. Coin-controlled cigar exhibiting and vending apparatus .....	616,441	Dec. 20	2273	530	85	1890
Dunigan, James F., Torrington, Conn. Axle-gage .....	605,863	June 21	1513	348	83	1677
Dunkel, Wilber R., Harriestown, Ill. Tank-heater .....	613,837	Nov. 8	1093	249	85	845
Dunkerley, Luke, Jr. (See Taylor and Dunkerley.)						
Dunkle, Abraham B. (See Balliette, Charles H., assignor.)						
Dunkle, Samuel K. (See Mims and Dunkle.)						
Dunkley, Samuel J., Kalamazoo, Mich. Fruit jar or can .....	610,897	Sept. 20	1363	312	84	1739
Dunklin, William J. (See Krutsch, Willis W., assignor.)						
Dunlap, Charles A. (See Gilmore, Robert J., assignor.)						
Dunlap & Company. (See Keator, Charles E., assignor.)						
Dunlap, Forest W., and J. R. Quain, London, England, assignors to W. C. Chapin, San Francisco, Cal. Light refracting and magnifying envelop for incandescent lamps .....	597,964	Jan. 25	2595	607 286	82	554
Dunlap, John S., Chicago, Ill. Means for making infusions .....	607,352	July 12	1340	287	84	276
Dunlap, William P., Maquoketa, Iowa. Pulverizing attachment for plows .....	602,231	Apr. 12	1117	245	83	225
Dunlavy, Albert D., Steubenville, Ohio. Nut-lock .....	600,308	Mar. 8	1268	289	82	1481
Dunlea, Thomas J., Binghamton, N. Y. Computing-scale .....	616,227	Dec. 20	1882	434 435	85	1811
Dunlea, Thomas J., Binghamton, N. Y., assignor to C. F. Wright, Susquehanna, Pa. Price-scale .....	597,670	Jan. 18	2088	489	82	440
Dunlevy, David W., <i>et al.</i> (See McDonald, Robert A., assignor.)						
Dunlop, Allan, and E. Cruzan, Cimarron City, Okla. Ter. Steam-washer .....	599,167	Feb. 15	1871	443	82	990
Dunlop, George H., Hollywood, Cal. Device for attaching implements to handles .....	608,110	July 26	2920	625	84	622
Dunlop, George H., South Melbourne, Victoria. Wall or lining for shield-tunneling. (Re-issue) .....	11,703	Nov. 29	3678	843	85	1390
Dunlop, John, assignor of one-half to H. Higginson, Meriden, Conn. Safety gas-cock .....	597,897	Jan. 25	2480	579	82	531
Dunn, Alfred W. (See Dunn, William and A. W.)						
Dunn, Charles B., <i>et al.</i> (See Dinsmore, Robert, assignor.)						
Dunn, Emanuel W., San José, Cal. Oil-burner .....	614,296	Nov. 15	1894	437 438	85	1020
Dunn, Gano S., East Orange, N. J., assignor to Crocker-Wheeler Electric Company, of New Jersey. Electromagnetic circuit-breaker .....	601,871	Apr. 5	485	100	83	90
Dunn, George A. and R. F., Dinuba, assignors of one-third to W. A. Conn, Fresno, Cal. Spraying apparatus .....	609,183	Aug. 16	1893	450	84	1049
Dunn, Henry S., Jr. (See Mott and Dunn.)						
Dunn, Hugh V., Hurricane, W. Va. Animal-shears .....	613,978	Nov. 8	1328	302	85	891
Dunn, James P., Hadley, Ga. Churn .....	603,375	May 3	224	50	83	644
Dunn, John F., New York, N. Y. Button-fastening device .....	608,588	Aug. 9	753	173	84	824
Dunn, John S., Portage, Wis. Railway-signal .....	606,197	June 28	2149	493	83	1815
Dunn, John W., assignor to B. F. Goodrich Company, Akron, Ohio. Pneumatic tire .....	609,962	Aug. 30	3317	772	84	1360
Dunn, Louis, and C. C. Hawley, New Paris, Ohio. Hydraulic pump .....	600,195	Mar. 8	1085	245	82	1446
Dunn, Patrick C., West Springfield, Mass. Chimney-cleaner .....	598,672	Feb. 8	1042	251	82	817
Dunn, Robert F. (See Dunn, George A. and R. F.)						
Dunn, Robert H., assignor to J. Doust, Toronto, Canada. Window-cleaner .....	612,896	Oct. 25	2344	558	85	491
Dunn, William. (See Nies and Dunn.)						
Dunn, William and A. W., Honoum, Hawaii. Vapor-condenser for vacuum-pans .....	604,607	May 24	2545	581	83	1160
Dunnagan, Constantine B. (See Morgan and Dunnagan.)						
Dunning, James A., Aulander, N. C., and K. Barrow, Norfolk, Va. Steering-guide for bicycles .....	606,525	June 28	2754	636	83	1936
Dunphy, James V., Duluth, Minn. Pencil-retaining device .....	612,318	Oct. 11	1288	310	85	258
Dunshee, William H. (See Rich, Chandler, and Dunshee.)						
Dunton, Emily M. (See Becker, John E. M., assignor.)						
Dunton, Emily M., <i>et al.</i> (See Barrody, John B., assignor.)						
Dupaw, Josiah, assignor of one-half to L. W. Gifford, Washington, D. C. Machine for automatically moistening and sealing envelopes .....	602,801	Apr. 19	2102	645	83	428
Dupee, John C., assignor of one-half to R. J. White, Chicago, Ill. Oil-burner .....	614,801	Nov. 22	2812	474	85	1306
Duplaisir, François, New Orleans, La. Car-coupling .....	596,963	Jan. 4	886	208	82	172
Duplessis, Elouild, St. Hyacinthe, Canada. Pegging-machine .....	616,699	Dec. 27	2782	647 646	85	2006
Duplessis, Elouild, assignor of two-thirds to E. A. Marchildon, St. Hyacinthe, Canada. Shoe-sewing machine .....	614,802	Nov. 22	2814	647 648 649	85	1207
Duplessis, Elouild, assignor of two-thirds to E. A. Marchildon, St. Hyacinthe, Canada. Shoe-sewing machine .....	614,938	Nov. 29	3088	709 710 711	85	1275
Duplessis, Elouild, assignor of two-thirds to E. A. Marchildon, St. Hyacinthe, Canada. Sewing-machine .....	615,263	Dec. 6	75	21, 22	85	1427
Duplex Hanger Company. (See Mueller, John, assignor.)						
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)						
Duplex Printing Press Company. (See Cox, Joseph L., assignor.)						
Dupont, Gustave, and M. Johannet, Paris, France. Means for driving railway, tramway, or automobile cars .....	614,709	Nov. 22	2659	606	85	1175
Dupuy, Adam C. A., New Orleans, La. Street-sweeper .....	615,537	Dec. 6	600	137 138	85	1528



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Dupuy, John J., <i>et al.</i> (See Bestie and Bilger, assignors.)						
Duque, Luis, Paris, France, assignor of two-thirds to A. Bybee, Chicago, Ill., and H. E. Freudenthal, Pioche, Nev. Circuit-controller and receiver-support	612,236	Oct. 11	1137	272	85	232
Durafort, Victor, Paris, France. Apparatus for containing compressed carbonic acid and charging water therewith	610,127	Aug. 30	3587	832	84	1415
Durand, Arthur H., Montreal, Canada. Washboiler	600,491	Mar. 8	1600	366	82	1545
Durand, Clotilde F. B., Montreal, Canada. Portable fire-extinguisher	596,861	Jan. 4	710	164	82	139
Durand, Huguenin & Co., L. (See De la Harpe, Charles, assignor.)						
Durant, Napoleon, assignor of one-half to T. Dempsey, North Adams, Mass. Time-lamp-lighter	615,538	Dec. 6	604	138	85	1529
Durant, Walter N., and W. H. Prichard, Milwaukee, Wis. Reducing and shaping bamboo rods	606,623	June 28	2948	683	83	1972
Durbin, David W., and H. L. Crum; said Durbin assignor of one-half to N. W. Cheeks, Bridgeville, Pa. Nut-lock	612,490	Oct. 18	1584	378	85	329
Durbrow, Alfred F., West New Brighton, N. Y. Saddle-support for bicycles	600,686	Mar. 15	1941	442	82	1628
Durbrow, George W., Saeton, Cal. Hydraulic well-boring machine	597,316	Jan. 11	1467	344	82	302
Durbur, Augustus H., New York, N. Y. Plastic ornamentation of wood	612,641	Oct. 18	1868	442	85	381
Durel, Jeanne, and J. A. Drouard, Paris, France. Patten for brushes for waxing floors	599,495	Feb. 22	2498	587 588	82	1134
Durel, Paul S., New Orleans, La. Car-brake	609,143	Aug. 16	1825	432	84	1088
Durfee, Charles B., and F. M. Williams, Belleville, N. Y.; said Durfee assignor to said Williams; said Williams assignor of one-half to D. A. Brown, Woodbridge, N. J. Bicycle-holder	607,024	July 12	697	151	84	157
Durham, Henry, Sylvania, Ind. Broom	609,665	Aug. 23	2802	653	84	1245
Durham, John A., Knoxville, Tenn. Chemical fire-extinguisher	601,435	Mar. 29	3234	729	82	1914
Durham, John E., and J. E. Devine, assignors to E. E. Weed, D. M. and C. Gerber, Douglas, Mich. Basket-making machine	605,408	June 7	676	150	83	1483
Durham, John L., Sanco, Tex. Planter	603,757	May 10	922	204	83	796
Durham, Shiloh W., Bushnell, Ill. Non-refillable bottle	608,957	Aug. 9	1447	343	84	953
Dürkopf, Ernst, assignor to Firm of E. Merck, Darmstadt, Germany. Bismuth methylene-digallate and making it	605,246	June 7	352	-----	83	1418
Dürkopf, Ernst H. C., assignor to Firm of E. Merck, Darmstadt, Germany. Formaldehyde tannin	598,914	Feb. 15	1436	-----	82	909
Dürkopf, Ernst H. C., assignor to Firm of E. Merck, Darmstadt, Germany. Formaldehyde proteids containing iodine	601,072	Mar. 22	2580	-----	82	1763
Durrant, Frederick W., <i>et al.</i> (See Kinney, Israel, assignor.)						
Durst, William, Brooklyn, N. Y. Traverse-ring	602,981	Apr. 26	2418	551	83	504
Duryea, James F., assignor to Duryea Motor Wagon Company, Springfield, Mass. Gas-engine	605,815	June 14	1393	319 320	83	1637
Duryea Motor Wagon Company. (See Duryea, James F., assignor.)						
Duryea, Wilbur O., Morning Sun, Iowa. Extensible step-ladder	600,196	Mar. 8	1087	245	82	1446
Duryea, Wilbur O., Morning Sun, Iowa. Check-rower for corn-planters	605,634	June 14	1060	244	83	1574
Duryea, William C., Blawenburg, N. J., assignor to himself, and G. Edwards, New York, N. Y. Bed-motion for cylinder printing-machines	602,840	Apr. 26	2172	492	83	457
Duryee, George, Orange, N. J. Apparatus for burning and grinding lime and cement	611,110	Sept. 20	1753	402	84	1813
Düsedau, Wilhelm, New York, N. Y. Gripping mechanism	611,570	Sept. 27	2630	606 607	84	1998
Dusenbury, Caleb C. (See Fuller, John E., assignor.)						
Dussair, John C., <i>et al.</i> (See Sheer, Walter B., assignor.)						
Dustin, John, and P. E. Bellows, Beloit, Wis. Hose-coupling	613,061	Oct. 25	2606	617	85	546
Dustless Roadbed Company. (See Mattern, Frederick W., assignor.)						
Dustless Roadbed Company. (See Nichol, James H., assignor.)						
Dutchburn, Christopher, Highfield, Canada. Car-coupling	597,575	Jan. 18	1930	449	82	410
Dutcher, Frank. (See Wood and Dutcher.)						
Dutcher, Frank, Fostoria, Ohio. Signal	610,672	Sept. 13	957	221	84	1642
Dutezynski, Alfred von, Maria Enzersdorf, Austria-Hungary. Car-wheel	597,270	Jan. 11	1399	328	82	288
Dutrow, William B., Harrisonburg, Va. Connecting device for springs	609,577	Aug. 23	2623	613	84	1211
Dutt, David, Riverdale, assignor of one-half to J. W. Robinson, Vestaburg, Mich. Floor-ing-jack	597,671	Jan. 18	2091	490	82	440
Dutton, Chauncey N., New York, N. Y. Air-compressor	609,087	Aug. 16	1705	406 407	84	1017
Dutton, Chauncey N., New York, N. Y. Air-compressor	609,088	Aug. 16	1710	407	84	1018
Dutton, Chauncey N., New York, N. Y. Fluid-actuated valve	609,089	Aug. 16	1712	407 408	84	1019
Dutton, Chauncey N., New York, N. Y. Pneumatic differential dry-dock	615,440	Dec. 6	416	99 100 101	85	1493
Dutton, George E., White City, Fla. Grubbing-fork	596,579	Jan. 4	211	46	82	42
Dutton, John W., and A. Crawford, Battle Creek, Mich. Grain weigher and measure	602,060	Apr. 12	813	176	83	165
Duwe, Adolf G., assignor to O. E. A. Wiessner, Brooklyn, N. Y. Bedstead-brace	602,656	Apr. 19	1841	419	83	378
Duval, Ernst, Hamilton, Canada. Window frame and sash	607,427	July 19	1490	317	84	321
Duval-Pihet, Nicolas, Paris, France. Adjustable spring-bearing	607,353	July 12	1342	287	84	277
Duvall, Charles, Ringwood, Okla. Ter. Cotton-picker	613,028	Oct. 25	2541	604 605	85	532
Duvall, George W., Norfolk, Va. Boiler-tube ferrule	611,959	Oct. 4	630	153	85	123
Duwe, Adolf G., assignor to O. E. A. Wiessner, New York, N. Y. Spring bed-bottom	614,221	Nov. 15	1749	402	85	994
Duwe, Adolf G., assignor to O. E. A. Wiessner, New York, N. Y. Folding bedstead	614,222	Nov. 15	1750	402	85	994
Dvork, Frank J., Festina, Iowa. Tension device for grain-binders	596,580	Jan. 4	212	47	82	42
Dwight, Sperry, Mitchell, S. D. Multiplying plate-holder for photographic cameras	615,064	Nov. 29	3346	768	85	1324
Dwyer, Elmer F., Lynn, Mass. Producing high vacuums	596,654	Jan. 4	348	76	82	69
Dwyer, John, Butte, Mont. Mining-car and railway system therefor	602,435	Apr. 19	1460	331 332	83	308
Dwyer, Patrick O. (See Ryan, Michael B., assignor.)						
Dwyer, Patrick V., assignor to L. A. Frank, St. Paul, Minn. Pipe-thimble	601,709	Apr. 5	174	33	83	34
Dwyer, Peter, E. S. Anderson, and J. Mellina, New York, N. Y. Mail-bag-delivery mechanism	613,563	Nov. 1	619	143 144	85	734
Dwyer, Thomas F., Brooklyn, N. Y. Pipe-hanger	603,180	Apr. 26	2745	625	83	567
Dwyer, William J., Hillyard, Wash. Separator for metals	603,133	Apr. 26	2678	607 608	83	554
Dye, George H., Comer, Ga. Nut-lock	599,554	Feb. 22	2601	610	82	1153
Dyer, Bernard S., London, England. Wash for hop-plants, &c.	600,414	Mar. 8	1438	-----	82	1514
Dyer, Beverly A. (See Scharnweber, William, assignor.)						
Dyer, Eben H., Alvarado, Cal. Boring implement for frozen earth	607,229	July 12	1123	240	84	233
Dyer, Edward F., Cleveland, Ohio. Apparatus for handling comminuted materials	604,141	May 17	1674	376 377	83	974
Dyer, Frank L., Washington, D. C., assignor to American Cotton Company, New York, N. Y. Press for baling cotton	601,806	Apr. 5	344	70, 71	83	64



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Dyer, Frank L., Washington, D. C., assignor to American Cotton Company, New York, N. Y. Cotton-press.	603,784	May 10	974	217	83	806
Dyer, Frank L., Washington, D. C., assignor to American Cotton Company, New York, N. Y. Cotton-press.	604,028	May 17	1464	328	83	935
Dyer, Frank L., Orange, N. J., assignor to American Cotton Company, New York, N. Y. Cotton-press.	604,029	May 17	1467	329	83	936
Dyer, George H., San Francisco, Cal. Grinding and polishing device.	602,213	Apr. 12	1090	239	83	219
Dyer, Harold P., Cleveland, Ohio. Machine for crystallizing sugar.	607,228	July 12	1121	240	84	233
Dyer, Harold P., Cleveland, Ohio. Steam-drier.	610,962	Sept. 20	1471	336	84	1760
Dyer, Harold P., Cleveland, Ohio. Machine for cutting beet-roots.	614,446	Nov. 22	2186	501	85	1089
Dyer, James M., San Francisco, Cal. Wave-power.	597,552	Jan. 18	1888	438	82	402
Dyer, James M., San Francisco, Cal. Wave-power.	597,553	Jan. 18	1889	438	82	402
Dyer, John A., and H. D. Holmes, Stoddard, assignors of one-fourth to D. F. Hunt, Antrim, N. H. Band-saw guide.	598,476	Feb. 1	693	169	82	734
Dyer, John T. (See Lewis, Harry A., assignor.)						
Dyer, Richard N., East Orange, N. J. Variable gearing.	611,378	Sept. 27	2275	525 526	84	1931
Dyer, Robert M., and L. W. Noyes, assignors to Aermotor Company, Chicago, Ill. Wind-mill.	608,657	Aug. 9	881	202	84	848
Dyer, Walter, assignor of one-half to A. E. Stevens, Chicago, Ill. Vending-machine.	610,673	Sept. 13	959	222	84	1642
Dyer, William B. (See Leonard, Charles N., assignor.)						
Dyer, William J., San Francisco, Cal. Roller crushing-machine.	610,802	Sept. 13	1196	275	84	1690
Dyett, Frank J., Ilion, N. Y. Ball-bearing for type-bars for type-writing machines.	615,823	Dec. 13	1100	258	85	1641
Dykeman, Richard, Logansport, Ind. Combination cigar-cutter and advertising device.	610,388	Sept. 6	479	104 105	84	1531
Dykes, George R., Hawkinsville, Ga. Corn or seed dropper.	604,738	May 31	2786	638	83	1224
Dykes, George R., Hawkinsville, Ga. Seed-dropper.	616,298	Dec. 20	2017	470	85	1839
Dynamite Ordnance and Armaments Company. (See Breath, William L., assignor.)						
E. Bement's Sons. (See Bender, Frank D., assignor.)						
E. C. Atkins & Company. (See Atkins, Elias C., assignor.)						
E. C. Atkins & Company. (See Wallace, Thomas L., assignor.)						
E. C. Atkins & Company. (See Wallace and Reed, assignors.)						
E. C. Smith Company. (See Smith, Albert U., assignor.)						
E. D. Jones & Sons Company. (See McSweeney, James, assignor.)						
E. H. Merrill Company. (See Merrill, Henry E., assignor.)						
E. & H. T. Anthony & Company. (See Harrison, Frederick J., assignor.)						
E. Ingraham Company. (See Wright, William H., assignor.)						
E. J. Brooks & Company. (See Brooks, Edward J., assignor.)						
E. J. Manville Machine Company. (See Campbell, Andrew C., assignor.)						
E. Jenckes Manufacturing Company. (See Frink, George E., assignor.)						
E. Jenckes Manufacturing Company. (See Rowe, James E., assignor.)						
E. Miller & Company. (See Homan, William C., assignor.)						
E. & T. Fairbanks & Company. (See Fairbanks and Sargent, assignors.)						
E. & T. Fairbanks & Company. (See Fairbanks and Taylor, assignors.)						
E. & T. Fairbanks & Company. (See Paddock, Harvlin, assignor.)						
E. & T. Fairbanks & Company. (See Taylor, Frederick W., assignor.)						
E. W. Bliss Company. (See Leavitt, Frank M., assignor.)						
Eader, Charles W., Denver, Colo. Tack-driver.	603,626	May 10	710	158	83	755
Eades, William T., Birmingham, and T. Matthews, Leamington, England. Load-sustainer for weight-lifters.	602,312	Apr. 12	1257	277 278	83	254
Eads, Oliver T. (See Moore, David A., assignor.)						
Eagle Lock Company. (See Judson, Charles W., assignor.)						
Eagle Lock Company. (See Murphy, James, assignor.)						
Eagle Lock Company. (See Noack, Carl O., assignor.)						
Eagle Pencil Company. (See Boman, Claes W., assignor.)						
Eagle Pencil Company. (See Kraus, Samuel, assignor.)						
Eagle Pencil Company. (See Lindley, Eveline C., assignor.)						
Eaglesfield, Eli C., Berlin, Wis. Checking device.	613,979	Nov. 8	1330	302	85	891
Eagleton, Joseph B., Orient, Ohio. Machine for weaving cross-wires in fences.	607,230	July 12	1124	240	84	233
Eagon, Frederick, assignor of one-third to H. Holznagel, Chicago, Ill. Corner-piece for bedsteads.	605,310	June 7	483	108	83	1444
Eames, Canly D., Worcester, Mass. Tongs.	601,506	Mar. 29	3354	760	82	1939
Eames, Canly D., Worcester, Mass. Work-holder.	603,558	May 3	581	129	83	713
Eames, Charles B., et al. (See Talley, William H., assignor.)						
Eames Co., Wilfred. (See Eames, Wilfred, assignor.)						
Eames, Gardner T., assignor of one-half to F. D. Fuller, Kalamazoo, Mich. Drill-grinder.	614,092	Nov. 15	1517	347 348	85	950
Eames, Wilfred, assignor to W. Eames Co., Cleveland, Ohio. Twist-drill grinder.	613,127	Oct. 25	2703	639	85	565
Eardly, James W., Cascade, Mich. Bag-holder for mail-bag cranes.	609,419	Aug. 23	2335	551	84	1158
Earhart, John S., and C. Miller, Millersville, Ill. Planter.	609,666	Aug. 23	2802	653	84	1245
Earl, Charles L., Jr. (See Devendorf and Earl.)						
Earl, Edwin T., Oakland, Cal. Refrigerator-car.	612,715	Oct. 18	1993	472 473	85	405
Earl, Jasper W., and B. E. Roberts, Minneapolis, Minn. Acetylene-gas generator.	612,517	Oct. 18	1620	386 387	85	336
Earl, Lewis F., Philadelphia, Pa. Lacing-hook for shoes.	602,841	Apr. 26	2174	493	83	457
Earl, Lewis F., Philadelphia, Pa. Lacing-hook for shoes, gloves, &c.	602,842	Apr. 26	2177	493	83	458
Earl, William D., Albany, N. Y. Car-coupling.	611,315	Sept. 27	2145	496	84	1908
Earley, Frank G. (See Harris, Edwin T., assignor.)						
Easker, John, assignor of one-half to W. B. Douglas, Cedar Rapids, Iowa. Automatic faucet.	605,540	June 14	868	203 204	83	1541
Easley, John L., New York, N. Y. Lemon-squeezer.	614,374	Nov. 15	2045	472	85	1049
East, John F., Norfolk, Va. Crate.	597,608	Jan. 18	1986	462	82	421
East, Lewis F., Melbourne, Victoria. Jug-lid.	607,354	July 12	1343	287	84	277
East, Wilmer B., assignor to Farmers Manufacturing Company, Norfolk, Va. Ventilated barrel.	601,558	Mar. 29	3433	779	82	1956
Eastes, William T., assignor of one-half to F. M. Hayden, Muncie, Ind. Combined day and sleeping car.	615,689	Dec. 13	868	200 201	85	1596
Eastman, Ambrose. (See Gassett, Oscar, assignor.)						
Eastman, Frank L. (See Flora, Ellsworth E., assignor.)						
Eastman, Frederick A. (See Oliver, Thomas, assignor.)						
Eastman, George, assignor to Eastman Kodak Company, Rochester, N. Y. Lantern.	611,898	Oct. 4	531	129	85	106
Eastman, John P., assignor of one-half to F. M. Lewis, Chicago, Ill. Continuous mileage-ticket.	602,214	Apr. 12	1093	240	83	220
Eastman Kodak Company. (See Brownell, Frank A., assignor.)						
Eastman Kodak Company. (See Eastman, George, assignor.)						
Eastman, Olaf, Chicago, Ill. Water-filter.	606,804	July 5	323	67	84	65



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Easton & Burnham Machine Company. (See Hughes, Henry E., assignor.)						
Easton, Douglas M., assignor to M. C., S. C., and W. M. Dizer, Weymouth, Mass. Tanning.	604,739	May 31	2788	638	83	1225
Easton, William O. (See Dawson and Easton.)						
Eastwick, Edward P., Jr., New Orleans, La. Sugar-crystallizer	608,446	Aug. 2	494	112	84	754
Eastwood, Asa B., Newcastle, Cal. Adjustable hydraulic nozzle	609,578	Aug. 23	2624	614	84	1211
Eastwood, Henry, assignor, by mesne assignments, to Eastwood & White Company, Lake View, N. J. Loom	600,216	Mar. 8	1113	253 254	82	1452
Eastwood, Henry, assignor, by mesne assignments, to Eastwood & White Company, Lake View, N. J. Loom	600,217	Mar. 8	1115	254	82	1452
Eastwood, John E., assignor of one-half to Springville Manufacturing Company, Rockville, Conn. Warping-reel	609,667	Aug. 23	2804	653 654	84	1246
Eastwood, John H., C. E. Bibb, and F. McClintock, Colorado Springs, Colo. Automatic engine-stop	604,142	May 17	1676	377	83	975
Eastwood & White Company. (See Eastwood, Henry, assignor.)						
Eaton, Cole & Burnham Company. (See Laws, Albert D., assignor.)						
Eaton, Enoch H., assignor of one-half to J. A. Payne, Moulton, Iowa. Rotary engine	611,239	Sept. 27	1994	460	84	1879
Eaton, George O. (See Storer, Martin, and Eaton.)						
Eaton, George S., Brooklyn, N. Y., assignor to Eaton Type Finishing Machine Company, Jersey City, N. J. Type-finishing machinery	596,489	Jan. 4	40	9	82	10
Eaton, Howard F. (See Poulin and Eaton.)						
Eaton, Howard F., Quincy, Mass. Automatic switch for railways	600,278	Mar. 8	1226	278 279	82	1473
Eaton, Howard F., Quincy, Mass. Combined weighing and measuring apparatus	601,224	Mar. 22	2841	649	82	1812
Eaton, John. (See Tonkin, John J., assignor.)						
Eaton, John O., Fall River, Mass. Cigarette	599,834	Mar. 1	305	69	82	1270
Eaton, John O., assignor of one-fourth to J. Marshall, Fall River, Mass. Cigarette-machine	602,436	Apr. 19	1463	332 333	83	308
Eaton, Leonard F., assignor of one-half to T. B. Eaton, Sullivan, Ind. Ball-caster	608,111	July 26	2921	625	84	622
Eaton, Percy, et al. (See Slocum, William H., assignor.)						
Eaton, Russell W. (See Shepard, Leander, assignor.)						
Eaton, Thomas B. (See Eaton, Leonard F., assignor.)						
Eaton Type Finishing Machine Company. (See Eaton, George S., assignor.)						
Eaton, Willie G., Nashua, N. H., assignor to Draper Company, Portland, Me., and Hope-dale, Mass. Stop-indicator for looms	616,055	Dec. 13	1524	356	85	1723
Eatough, Jonathan, assignor to Howard & Bullough American Machine Company, Limited, Pawtucket, R. I. Flat-grinding mechanism for carding-machines	615,016	Nov. 29	3239	744	85	1305
Eaves, John B., Forest City, N. C. Car-coupling	598,500	Feb. 8	740	179	82	760
Eba, Bernhardt, Warren, Pa. Bone-black kiln	612,319	Oct. 11	1289	311 312	85	258
Ebbersten, Alfred N., Orange, Mass. Treering-machine for boots and shoes	599,773	Mar. 1	173	42, 43	82	1248
Eberding, Henry, Paterson, N. J., assignor to Welding Compound Company. Welding compound	601,436	Mar. 29	3236	-----	82	1915
Eberhard, Rudolph, Los Angeles, Cal. Tricycle rocking-horse	614,375	Nov. 15	2045	472	85	1049
Eberhardt, Leo, New York, N. Y. Show-case	597,554	Jan. 18	1891	438	82	402
Eberhart, Christian, Fond du Lac, Wis. Nut-lock	597,638	Jan. 18	2029	474	82	430
Eberly, H. B. (See Drawbaugh, Daniel, assignor.)						
Eberman, Albert S., assignor of one-half to E. Harlan, Baltimore, Md. Injector for steam-boilers	614,939	Nov. 29	3099	711	85	1278
Ebersole, John, Chambersburg, Pa. Corn masher and cutter	605,704	June 14	1184	273	83	1598
Ebert, Lucien, New York, N. Y. Artificial-flower-crimping machine	605,409	June 7	680	150 151	83	1483
Ebert, William T., Oakland, Pa. Trap	603,479	May 3	430	95	83	683
Ecaubert, Frederic, Brooklyn, N. Y. Brake for bicycles, &c.	597,539	Jan. 18	1868	433	82	397
Ecaubert, Frederic, Brooklyn, N. Y. Connection for cycle-chains	602,633	Apr. 19	1804	411	83	371
Ecaubert, Frederic, Brooklyn, N. Y., and H. Serrell, Plainfield, N. J.; said Serrell assignor to said Ecaubert. Back-pedaling brake	602,634	Apr. 19	1805	412	83	371
Echelberger, William A., Hot Springs, Ark. Stamp-pad	602,061	Apr. 12	814	176	83	166
Echols, Frank G., Hartford, Conn. Metal-working machine	602,062	Apr. 12	815	177	83	166
Echols, Frank G., Hartford, Conn. Tool for cutting screw-threads	610,158	Aug. 30	2630	844	84	1424
Eck, John J., New York, N. Y. Broom-head	612,491	Oct. 18	1585	379	85	329
Eck, Joseph P., Muncie, Ind. Electrical apparatus for charging furnaces	605,090	June 7	42	13, 14	83	1361
Eckart, John H., Joplin, Mo. Filter	603,323	May 3	139	32	83	628
Eckart, John H., Joplin, Mo. Nut-lock	603,324	May 3	140	33	83	629
Eckart, John H., Joplin, Mo. Nut-lock	607,025	July 12	698	151	84	158
Ecker, Herman, assignor of two-thirds to B. Lichtig and C. Sandberg, New York, N. Y. Clothes-line pulley	602,043	Apr. 5	787	171	83	149
Eckerson, David I., assignor of one-half to J. T. and P. R. Hadsell, Worcester, N. Y. Washing-machine	614,710	Nov. 22	2661	606 607	85	1175
Eckert, Jacob E., Marengo, Iowa. Autoharp	604,914	May 31	3086	709	83	1282
Ecklund, Charles E., Vilas, Kans. Corn-header	605,635	June 14	1062	244 245	83	1575
Eckman, George C., Fayette City, Pa. Arm-rest	599,096	Feb. 15	1742	413	82	969
Eckman, William H., Plumtree, Ind. Corn-planter	609,420	Aug. 23	2336	551	84	1158
Eclipse Switch and Signal Company. (See Abernethy, Harry M., assignor.)						
Ecob, John R., Lawrence, Mass. Apparatus for stretching yarn while mercerizing	608,033	July 26	2809	597	84	599
Economy Broom Company. (See Middaugh, Hoevet, and Anderson, assignors.) (Reissue.)						
Eddy, Oscar H., assignor to W. Eddy Plow Co., Greenwich, N. Y. Mop-wringer	613,258	Nov. 1	56	14	85	627
Eddy Plow Co., W. (See Eddy, Oscar H., assignor.)						
Edelmuth, Max, New York, N. Y. Water-heater	610,939	Sept. 20	1425	328	84	1752
Eder, Frank, White Plains, N. Y. Fish-hook	597,142	Jan. 11	1200	281	82	250
Eder, Reinhold, Weissensee, and G. Stein, Berlin, Germany. Embroidering-machine	616,776	Dec. 27	2908	676	85	2032
Edey, John. (See Davy and Edey.)						
Edgar, Andrew C. (See Mott and Edgar.)						
Edgar, Butler, Sunbury, assignor to T. M. Righter, trustee, Mount Carmel, Pa. Lock-nut	602,232	Apr. 12	1118	245	83	225
Edgar, Butler, Sunbury, assignor to T. M. Righter, trustee, Mount Carmel, Pa. Nut-lock	602,233	Apr. 12	1118	246	83	225
Edgar, Butler, Sunbury, assignor to T. M. Righter, trustee, Mount Carmel, Pa. Nut-lock	602,394	Apr. 12	1392	312	83	280
Edgar, Ellis F., Woodbridge, N. J. Water-tube boiler	602,501	Apr. 19	1570	358 359	83	328
Edgar, John, Rochester, Minn. Whiffletree-center	601,462	Mar. 29	3279	741	82	1923
Edgar, John, Rochester, Minn. Thill-coupling	605,666	June 14	1118	258	83	1585
Edgar, John, Rochester, Minn. Fifth-wheel	610,173	Sept. 6	37	8, 9	81	1448
Edgar, Robert, Jr., Glasgow, Scotland. Manu-pedal and hand-steering velocipede or other vehicle	608,190	Aug. 2	41	9, 10	84	663
Edgar, William, Mobile, Ala. Grate	610,674	Sept. 13	962	222	84	1643
Edgar, William K., Colorado Springs, Colo. Seal-lock	605,278	June 7	422	95	83	1432
Edgcomb, James A., Knoxville, Pa. Blind-slatting machine	600,524	Mar. 15	1667	380	82	1576



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Edge, William W. (See Coolidge, Charles S., assignor.)						
Edgerton, Charles, Philadelphia, Pa. Apparatus for treating garbage	599,229	Feb. 15	1961	465	82	1007
Edgerton, Charles, Philadelphia, Pa. Process of and apparatus for continuously filtering and pressing garbage	603,945	May 10	1271	289	83	863
Edgerton, Charles, and L. H. Roberts, Paton, Iowa. Pneumatic governor for wind-motors, pumps, &c	616,456	Dec. 27	2312	539	85	1917
Edgerton, Nathan H., Philadelphia, Pa. Secondary battery	614,539	Nov. 22	2340	536	85	1118
Edgington, George W., assignor of one-fifth to A. Eldredge, Coalville, Utah. Automatic stop-valve for hose-couplings	610,035	Aug. 30	3446	798	84	1385
Edison, Thomas A., Llewellyn Park, N. J. Conveyer	602,064	Apr. 12	822	178	83	167
Edison, Thomas A., Llewellyn Park, N. J. Governor for motors	604,740	May 31	2791	638 639	83	1225
Edison, Thomas A., Llewellyn Park, N. J. Drying apparatus	605,475	June 14	771	177	83	1522
Edison, Thomas A., Llewellyn Park, N. J. Phonograph	605,667	June 14	1119	258	83	1586
Edison, Thomas A., Llewellyn Park, N. J. Mixer	605,668	June 14	1121	259	83	1586
Edison, Thomas A., Llewellyn Park, N. J. Phonograph	607,588	July 19	1956	406	84	416
Edison, Thomas A., Llewellyn Park, N. J. Phonograph	609,268	Aug. 16	2068	491	84	1087
Edison, Thomas A., Llewellyn Park, N. J. Phonograph	610,706	Sept. 13	1017	235 236	84	1655
Edmands, Artemas B., Milford, Mass. Faucet	597,842	Jan. 25	2395	557	82	515
Edmonds, John, Woodburn, Canada. Draining-machine	599,442	Feb. 22	2400	563 564	82	1115
Edmonds, Walter D. (See Wilmowsky, Erwin F. von, assignor.)						
Edmonds, Eddie, assignor to S. M. Foster, San Antonio, and Beaver & Hindes, Pearsall, Tex. Cactus-burner	613,798	Nov. 8	1035	235	85	834
Edmunds, John, assignor of one-half to G. E. Jordan, Waltham, Mass. Machine for finishing and pressing webs	614,448	Nov. 22	2188	502	85	1090
Edson, Hubert, and A. Tarby, Patterson, La. Steam-trap	600,279	Mar. 8	1229	279	82	1474
Edson, Jarvis B., Shelter Island, N. Y., assignor to Ashcroft Manufacturing Company, Bridgeport, Conn. Apparatus for testing pressure-gages	596,581	Jan. 4	213	47	82	42
Edson, Nathan, Boston, Mass. Temporary binder	603,500	May 3	475	106	83	692
Edward Miller & Company. (See Homan, William C., assignor.)						
Edward Miller & Company. (See Langston, Thomas, assignor.)						
Edward Miller & Company. (See Williams, Frank T., assignor.)						
Edward P. Allis Company. (See Fitzgerald, Edward E., assignor.)						
Edward P. Allis Company. (See Hinkley, George M., assignor.)						
Edward P. Allis Company. (See Hintz, John G., Jr., assignor.)						
Edwards, Charles G., Albert Lea, Minn. Device for attaching or detaching electric-lamp bulbs	609,421	Aug. 23	2340	552	84	1158
Edwards, Elbert C., Emporia, Kans. Railway-rail joint	597,271	Jan. 11	1400	328	82	288
Edwards, Elias, Rural Hill, Miss. Trunk-lifting device	606,853	July 5	421	90	84	83
Edwards, George. (See Duryea, William C., assignor.)						
Edwards, Harry M., assignor to W. Vogel & Brothers, Brooklyn, N. Y. Lighting implement	604,693	May 24	2703	617	83	1189
Edwards, Isaac L., Aurora, Ill. Ice-tongs	608,848	Aug. 9	1254	292	84	917
Edwards, John, Homestead, J. R. Davies, Duquesne, and J. Jarrett, Pittsburg, Pa. Draft-rigging	614,262	Nov. 15	1844	426	85	1010
Edwards, James A., Owosso, Mich. Curtain-light frame for carriages	610,389	Sept. 6	480	105	84	1531
Edwards, John C. (See McLaughlin, George G., assignor.)						
Edwards, John C., et al. (See Cousens, Alfred C., assignor.)						
Edwards, John R. (See Wood, Alfred F., assignor.)						
Edwards, Joseph, New York, N. Y. Dredging-drag	611,614	Oct. 4	37	9	85	10
Edwards, Joseph, New York, N. Y. Swivel-drawbridge	615,824	Dec. 13	1101	258 259	85	1641
Edwards, Levi M. (See Steiner, Elmer E., assignor.)						
Edwards, Louisa, Florence, Colo. Hair-tonic	604,111	May 17	1628		83	966
Edwards, Noah W., Columbia, Mo. Bow-facing oar	612,025	Oct. 11	773	191	85	162
Edwards, Richard J., London, England. Machine for making emery or glass cloth or paper	610,128	Aug. 30	3589	832	84	1415
Edwards, Thomas C., Salinas, Cal. Coupling	596,490	Jan. 4	42	10	82	11
Edwards, Victor E. (See Morgan and Edwards.)						
Edwards, Victor E., Worcester, Mass. Rolling-mill	603,102	Apr. 26	2621	595	83	542
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Cooling-bed for band-iron	614,202	Nov. 15	1706	392	85	986
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Metal-cutting shears	616,608	Dec. 27	2591	601 602	85	1968
Edwards, Victor E., and R. L. Morgan, assignors to Morgan Construction Company, Worcester, Mass. Wire-reel	614,203	Nov. 15	1709	392	85	987
Edwards, William C., Mannington, W. Va. Device for cleaning oil-wells	598,700	Feb. 8	1091	262	82	826
Edwards, William J., et al. (See Perkins, James T., assignor.)						
Edwards, William J., Chicago, Ill. Combined speed-indicator and cyclometer	597,272	Jan. 11	1402	328 329	82	288
Edwards, William W., Wilmerding, assignor to H. H. Westinghouse, Pittsburg, Pa. Pipe-coupling	604,857	May 31	2986	685	83	1263
Edwin Harrington, Son & Company. (See Haskins and Coes, assignors.)						
Efros, Charles, assignor to V. P. Travers, New York, N. Y. Apparatus for handling fluids	508,501	Feb. 8	741	179 180	82	760
Egan, Charles E., B. L. Lawton, and E. C. Wilcox, Meriden, Conn. Telephone system	609,229	Aug. 16	1992	473	84	1072
Egard, Louise P., et al. (See Sieber, John H., assignor.)						
Ege, Alexander H. (See Richardson, John T., assignor.)						
Egelston, James H. (See Allen, Everett P., assignor.)						
Eger, John. (See Stanley, George W., assignor.)						
EGge, Frederick, Bridgeport, Conn. Metal-working tool	604,376	May 24	2125	477	83	1082
Eggen, Frederick, Malmö, Minn. Draft-elevator	600,218	Mar. 8	1117	255	82	1453
EGger, Edward L., Centralia, Ill. Pneumatic spring	598,982	Feb. 15	1561	371	82	933
Eggers, Frank, Two Rivers, Wis. Bicycle-locking stand	598,175	Feb. 1	179	42	82	636
Eggert, William, Jr., Bloomfield, Conn. Fertilizer attachment for cultivators	609,502	Aug. 23	2496	584	84	1187
Eggleston, Clarence V., Edmond, Okla. Ter. Cattle-pump	597,639	Jan. 18	2030	474	82	430
Eggleston, Eugene E. (See Davis and Eggleston.)						
Egli, Hans W., Zurich, Switzerland. Cleaning device for gun-barrels	602,937	Apr. 26	2347	536	83	491
Egry Autographic Register Company. (See Rau and McNeal, assignors.)						
Ehbetts, Carl J., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Removably attaching magazines to firearms	599,835	Mar. 1	306	69	82	1270
Ehlers, Axel, Carthage, Mo. Picture-hanger	616,299	Dec. 20	2019	470	85	1840
Ehlers, John J., Millard, Nebr. Car-coupling	616,091	Dec. 20	1602	374	85	1756
Ehmer, Rudolph L., Monsey, N. Y. Game apparatus	612,198	Oct. 11	1068	256	85	218
Ehmke, Paul, Neustettin, Germany. Manure-scattering machine	611,960	Oct. 4	631	153	85	123



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Ehrenberg, Hugo E. (See Griep, Bruno W. E., assignor.)						
Ehrengart, Carl C. F., Nienstedten, Germany. Barrel-washer	609,981	Aug. 30	3241	758 759	84	1345
Ehrler, Edwin H. (See Todd, Vernon C., assignor.)						
Eiben, Andrew. (See Kundtz and Eiben.)						
Eichel, Abraham, <i>et al.</i> (See Applegate, Clarence, assignor.)						
Eichelbaum, Georg, Königsberg, assignor to F. Hornig, Taucha, Germany. Making ad hesives	608,363	Aug. 2	349	76	84	725
Eickelberg, Louis E. (See Helton, John W., assignor.)						
Eichengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Com pany, of New York. Pharmaceutical compound and making same	615,825	Dec. 13	1104		85	1642
Eichengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Com pany, of New York. Pharmaceutical compound	615,970	Dec. 13	1367		85	1692
Eicher, Henry F., Lebanon, Ill. Paper-bag holder	600,145	Mar. 8	1005	224	82	1431
Eichert, John, Pittsburg, Pa. Account-book	604,521	May 24	2392	543	83	1130
Eichholz, Henry J., St. Louis, Mo. Portable bicycle-stand	612,320	Oct. 11	1295	312	85	259
Eichstaedt, Roman, Michigan City, Ind. Vehicle-hub	612,159	Oct. 11	1012	243 244	85	208
Eichwede, Heinrich. (See Kosanke, Fuhr, and Krausse, assignors.)						
Eickemeyer, Carl, Yonkers, N. Y. Bicycle-brake	597,403	Jan. 18	1635	380	82	351
Eickemeyer, Carl, Yonkers, N. Y. Armature-winding machine	597,816	Jan. 25	2349	548 549	82	506
Eickemeyer, Carl, Yonkers, N. Y. Multiplying-gear for bicycles	601,507	Mar. 29	3355	760	82	1349
Eickemeyer, Carl, Yonkers, N. Y. Carrier for bicycles	607,355	July 12	1344	287 288	84	277
Eickemeyer, Rudolf, Yonkers, N. Y. Electric elevator	609,015	Aug. 16	1573	374 375	84	993
Eickemeyer, Rudolf, Yonkers, N. Y. Electric elevator	609,016	Aug. 16	1579	376 377	84	994
Eickmann, Christian, Indianapolis, Ind. Electric gas-lighting apparatus	598,316	Feb. 1	436	104 105	82	684
Eickmann, Christian, Indianapolis, Ind. Buckle for tire-cases	607,356	July 12	1347	288	84	278
Eidherr, Edward M., Allegheny, Pa. Eliminating impurities from coal, &c.	613,980	Nov. 8	1331		85	892
Eidsmoe, Christopher A., Pleasant, S. D. Device for preventing cows from kicking	606,481	June 28	2690	620	83	1922
Eidson, Herbert, and A. Lemon, Berrien Springs, Mich. Lock	601,337	Mar. 29	3069	692	82	1883
Eighmie, George D., New York, N. Y. Shirt	597,215	Jan. 11	1318	307	82	271
Eighmie, George D., New York, N. Y. Shirt	613,624	Nov. 1	721	168	85	754
Eighmy, Annis B., Clifton Springs, N. Y. Bed-pan	604,915	May 31	3087	709	83	1282
Eigner, Adolf G., St. Petersburg, Russia, assignor to Siemens & Halske Electric Com pany of America, Chicago, Ill. Dynamo-electric machine	607,737	July 19	2207	466	84	463
Eiker, Charles F., Chicago, Ill. Building construction	614,449	Nov. 22	2190	503	85	1090
Eilers, Bernerd, assignor of one-half to W. A. Murphy, Rochester, N. Y. Wood-grinder for pulp-making	607,026	July 12	699	151 152	84	158
Eilers, Bernerd, assignor of one-half to W. A. Murphy, Rochester, N. Y. Wood-grinder for pulp-making	607,164	July 12	933	214 215	84	209
Eilers, Bernerd, assignor of one-half to W. A. Murphy, Rochester, N. Y. Paper-machine	608,849	Aug. 9	1255	292	84	917
Einfeldt, Charles M. (See Frazier and Einfeldt.)						
Einhorn, Alfred, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst, Germany. Ester of paraamidometaoxybenzoic acid	610,348	Sept. 6	401		84	1517
Eisenberg, Christian, assignor to Schindlers Brothers, Berlin, Germany. Lasting-machine	605,091	June 7	44	14	83	1361
Eisendrath, Samson D., St. Paul, Minn. Filter	604,931	May 31	3107	714	83	1287
Eisenhart, Henry W., assignor to A. B. Farquhar Company, Limited, York, Pa. Harrow	609,333	Aug. 16	2183	514 515	84	1109
Eisenhart, Henry W., assignor to A. B. Farquhar Company, York, Pa. Harrow	609,334	Aug. 16	2185	515	84	1109
Eisenhower, Jacob F., Leighton, Pa. Car-fender	601,131	Mar. 22	2670	610	82	1780
Eisenhuth, John W., New York, N. Y. Motor-vehicle	612,026	Oct. 11	774	191 192	85	162
Eisenmann, Richard, Detroit, Mich. Satchel-handle	608,254	Aug. 2	148	37	84	683
Eisennenger, George, assignor of one-half to A. Hensel, Utica, N. Y. Baby-carriage	596,697	Jan. 4	432	98	82	85
Eisner, Theodor D., West New York, N. J., assignor, by mesne assignments, to F. Braun, New York, N. Y. Fabric-holding device for embroidering-machines	604,741	May 31	2793	639	83	1225
Eisner, Theodor D., West New York, N. J., assignor, by mesne assignments, to F. Braun, New York, N. Y. Embroidery-frame	604,742	May 31	2793	639	83	1226
Ekstedt, Carl J., <i>et al.</i> (See Sundberg, William E., assignor.)						
Elbel, Karl. (See Rosenberg and Elbel.)						
Elbel, Karl, and I. Rosenberg, assignors to Kalle & Co., Biebrich, Germany. Primary disazo blue-black dye	613,638	Nov. 1	743		85	758
Elbel, Karl, and I. Rosenberg, assignors to Kalle & Co., Biebrich, Germany. Primary disazo blue-black dye	613,639	Nov. 1	744		85	758
Elbel, Oswald D. (See Ayres and Elbel.)						
Elbridge Electrical Manufacturing Company. (See Doman, Albert E., assignor.)						
Elder, Amy L., Aspen, Colo. Safety-seal for bottles	603,559	May 3	582	129	83	714
Elder, Robert B. (See Duncan, James H., assignor.)						
Elder, Welker J., Wilkinsburg, assignor of one-half to N. S. Williams, Pittsburg, Pa. Tool-handle	600,260	Mar. 8	1200	272	82	1468
Eldred, Horace H., Brooklyn, N. Y., assignor to H. B. Metcalf, Pawtucket, R. I. Elec trical apparatus	602,596	Apr. 19	1736	395	83	358
Eldredge, Alma. (See Edgington, George W., assignor.)						
Eldredge, Earl C., Springfield, Mass. Instrument for measuring electric currents	613,899	Nov. 8	1200	274	85	865
Eldridge, Hilliary, <i>et al.</i> (See Clark, George G., assignor.)						
Eldridge, Hilliary, D. J. Clark, and S. Blum, Galveston, Tex. Electrical retort	603,058	Apr. 26	2532	576	83	525
Eldridge, John T., Murfreesborough, N. C. Combination-lock	597,712	Jan. 25	2165	506	82	471
Eldridge, Micajah L. (See Hartman and Eldridge.)						
Electric Compositor Company. (See Bellows, Benjamin F., assignor.)						
Electric Fireproofing Company. (See Bachert and O'Neil, assignors.)						
Electric Fog-Signal Syndicate. (See Tomlins, Herbert, assignor.)						
Electric Gas Stove Company. (See Albright, Jacob, assignor.)						
Electric Third Rail and Signal Company. (See Seaton, Benjamin C., assignor.)						
Electrical Vehicle Syndicate. (See Brougham, Reginald T. D., assignor.)						
Electrical Vehicle Syndicate. (See Brougham and Bersey, assignors.)						
Electricitäts-Gesellschaft Triburg, Gesellschaft mit Beschränkter Haftung. (See Schnei der, Friedrich W., assignor.)						
Elektrizitäts Aktiengesellschaft, vormals Schuckert & Co. (See Kurda, Carl, assignor.)						
Electro Gas Company. (See Böhm, Ludwig K., assignor.)						
Electro Gas Company. (See Vincent, Joseph A., assignor.)						
Electro Gas Company. (See Willson, Thomas L., assignor.)						
Elgen, Magnus P., assignor to E. Cronstedt, St. Paul, Minn. Hydrant	601,244	Mar. 29	2882	657	82	1848



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Elias, Charles A., assignor of two-thirds to J. W. Zika, New York, N. Y. Automatically-opening gate or door	613,815	Nov. 8	1066	242	85	840
Elker, Joseph B., and P. J. Jacobs, Pittsburg, Pa. Curtain-pole	601,372	Mar. 29	3122	705	82	1893
Elkins, Charles M., Wakefield, Mass. Adjustable hinge	611,468	Sept. 27	2446	563	84	1963
Elkins, Ira S., deceased; J. A. Elkins, New York, N. Y., administratrix. Fluid-fuel or oil burner	614,450	Nov. 22	2191	503	85	1090
Elkins, Jane A., administratrix. (See Elkins, Ira S.)						
Ellar, Henry, Clarksdale, Mo. Bicycle-coupling	603,501	May 3	476	106	83	692
Ellenbecker, Theodore, Sawyer, Wis. Attachment for mowing-machines	600,716	Mar. 15	1991	453	82	1637
Ellenburg, Paul. (See Deveau, Louis, assignor.)						
Ellingsen, Carl, Ashby, Minn. Heater and radiator for stoves	613,564	Nov. 1	622	144	85	734
Ellingson, Minnie D., <i>et al.</i> (See Parmley, Lemuel D., assignor.)						
Elliott, Lilian M., New York, N. Y. Sand-board	605,198	June 7	253	59	83	1398
Elliott, Mary F. (See Ward, David R., assignor.)						
Elliott, Crawford, New York, N. Y. Type-writing machine	615,017	Nov. 29	3240	744 745	85	1305
Elliott, Frank. (See Lee, Elliott, and Tatham.)						
Elliott, George M., Winnipeg, Canada. Attachment for squares	599,168	Feb. 15	1872	443	82	991
Elliott, George S. (See Benton, George E., assignor.)						
Elliott, George W., Dronfield, England. Scissors or shears	607,839	July 26	2436	517	84	525
Elliott, George W., Dronfield, England. Fuel washing and filtering appliance	616,831	Dec. 27	2999	699	85	2051
Elliott, J. Reed. (See Hutcheson, George C., assignor.)						
Elliott, James R., assignor of one-half to G. H. Wilson, St. Louis, Mo. Railway-spike	613,364	Nov. 1	260	59	85	667
Elliott, Joseph S., Eddy, Tex. Automatic vehicle-brake	603,946	May 10	1273	289 290	83	864
Elliott, R. T., <i>et al.</i> (See Elliott, William J., assignor.)						
Elliott, Ralph W., assignor of one-half to J. D. Darby and D. H. Rice, Brentwood, Cal. Apparatus for raising liquids	597,273	Jan. 11	1405	329	82	289
Elliott, Thomas, Rexburg, assignor of two-thirds to G. B. Rogers and L. R. Thomas, Blackfoot, Idaho. Blank-book	604,522	May 24	2393	714	83	1130
Elliott, Thomas I., Hacker Valley, W. Va. Vine-supporter	610,803	Sept. 13	1198	275	84	1691
Elliott, Walter E., Denver, Colo. Brake mechanism for railway-cars	607,920	July 26	2585	548	84	554
Elliott, Walter V., Elmira, N. Y. Dental plugger	614,376	Nov. 15	2046	472	85	1049
Elliott, William E., Brashear, Mo. Reclining-swing	602,065	Apr. 12	824	178 179	83	167
Elliott, William J., assignor of one-half to V. C. Walker and R. T. Elliott, Wilmington, Del. Friction-clutch	608,977	Aug. 9	1484	350 351	84	961
Elliptic Cycle Company. (See Harrison, John, assignor.)						
Ellis, Alfred A., assignor to Maignen's Filtre-Rapide and Anti-Calcaire Company, Limited, London, England. Apparatus for purifying water	604,491	May 24	2346	532	83	1122
Ellis, Benjamin F., Berkeley, Cal. Construction of tubes and cylinders	612,897	Oct. 25	2345	558	85	491
Ellis, Edward S., Englewood, N. J. Device for drawing straps tight prior to being buckled	599,142	Feb. 15	1826	433	82	983
Ellis, Edwin H. (See Macomber, Louis E., assignor.)						
Ellis, Ferrand F., Oneida, assignor to Oneida Community, Limited, Kenwood, N. Y. Polishing-machine	615,383	Dec. 6	310	73, 74	85	1473
Ellis, Frederick A., London, England. Means for making cycle-frames	604,490	May 24	2344	532	83	1122
Ellis, George H., and J. F. Steward, Chicago, Ill. Ball or cop of twine	601,771	Apr. 5	286	57	83	55
Ellis, James M., Galesburg, Ill. Cant-hook	601,093	Mar. 22	2606	594	82	1768
Ellis May Vacuum Steel Syndicate. (See May, William E., assignor.)						
Ellis, Rolon F., Sheridan, Pa. Metallic tie for railways	615,971	Dec. 13	1368	320	85	1692
Ellis, Sidney R., New York, N. Y. Rotatory theater-stage	612,836	Oct. 25	2242	536	85	472
Ellis, Walter A., Altoona Iowa. Wagon-tire shrinker and stretcher	599,324	Feb. 22	2155	512	82	1067
Ellis, William R., assignor of one-half to J. L. Mallory, Chicago, Ill. Car-door	610,940	Sept. 20	1427	328	84	1752
Ellis, William W., Edgewood, Tex. Corn-planter	608,658	Aug. 9	883	203	84	849
Ellis, Wynn E., Detroit, Mich. Grain-drier	596,964	Jan. 4	887	209	82	173
Ellis, Wynn E., assignor of one-half to T. Hurley, Detroit, Mich. Grain-drier	596,655	Jan. 4	350	76, 77	82	69
Ellison, Charley, <i>et al.</i> (See Larson and Branzell, assignors.)						
Ellison, William T., Irlam's-O'-th-Height, England. Pulsating steam-pump	607,357	July 12	1349	288	84	278
Ellithorpe, Frederick T., Newark, N. J. Safety appliance for elevators	602,437	Apr. 19	1466	333	83	309
Ellithorpe, Frederick T., Newark, N. J. Means for operating doors for elevator-wells	606,003	June 21	1782	408 409	83	1727
Ellithorpe, Frederick T., Newark, N. J. Elevator-door-opening apparatus	609,987	Aug. 30	3367	782	84	1370
Ellsworth, Eli P., <i>et al.</i> (See Howard, William H., assignor.)						
Ellsworth, Frank, assignor of one-half to C. F. Pearsol, Alliance, Ohio. Horseshoeing apparatus	597,317	Jan. 11	1470	344 345	82	303
Elmendorf, Albert, Chicago, assignor of two-thirds to E. H. Rexford, Blue Island, Ill. Heating device	600,909	Mar. 22	2308	526	82	1711
Elmendorf, Albert, Chicago, assignor of two-thirds to E. H. Rexford, Blue Island, Ill. Heating device	600,910	Mar. 22	2311	527	82	1711
Elmgren, John, Starkville, Colo. Miner's dinner-pail	614,940	Nov. 29	3101	712	85	1279
Elms, Edwin J., Chelsea, Mass. Steam-boiler furnace	607,738	July 19	2208	467	84	464
Elmsley, Remigius, <i>et al.</i> (See McCollum, James H. K., assignor.)						
Elphinstone, George K., London, and A. C. Heap, Penn, England. Electrical measuring implement	607,921	July 26	2587	549	84	554
Elsaesser, Emil, assignor to Dahl & Co., Barmen, Germany. Blue dye for wool	607,408	July 12	1450	-----	84	296
Elsaesser, Emil, assignor to Dahl & Co., Barmen, Germany. Brown dye and making it	611,111	Sept. 20	1754	-----	84	1814
Elsaesser, Emil, assignor to Dahl & Co., Barmen, Germany. Blue-black dye and making same	611,112	Sept. 20	1755	-----	84	1814
Elsass, John L., Chillicothe, Ohio. Bottle-protector	598,596	Feb. 8	904	217	82	793
Elton, Howard L., and N. J. Smith, Philadelphia, Pa. Pneumatic pad for bicycle or like handles	597,108	Jan. 11	1147	271	82	240
Elton, Howard L., and N. J. Smith, Philadelphia, Pa. Shield for bicycle-lamp burners	599,525	Feb. 22	2549	598	82	1143
Eltzroth, Forest W., Lafayette, assignor of one-half to F. E. Cole, Peoria, Ill. Stacker	602,063	Apr. 12	821	178	83	167
Elvidge, Charles. (See Kenfield and Elvidge.)						
Elwell, Fred S. (See Poole, John H., assignor.)						
Elworthy, Herbert S., London, England. Pen-rack	612,237	Oct. 11	1139	273	85	232
Ely, Charles H., Orange, J. W. Danser, Freehold, and F. B. Rue, Atlantic Highlands, N. J. Folding or telescoping umbrella	600,219	Mar. 8	1118	255	82	1453
Ely, E. W. (See Lannon, Owen, assignor.)						
Ely, Edward O. (See Childs, Eugene, assignor.)						
Ely, John C. (See Loree, Perry E., assignor.)						
Ely, Stephen J. (See Dickson, John W., assignor.)						
Ely, William, Providence, R. I. Electric switch	613,128	Oct. 25	2705	640	85	565
Ely, William, Providence, R. I. Electric switch	615,347	Dec. 6	235	56	85	1459
Ely, William, Providence, and W. B. Bernardini, Lakewood, assignors to Hope Electric Appliance Company, Providence, R. I. Electric switch	613,129	Oct. 25	2707	640	85	565



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Emanuel, Louis. (See Ihrig, Theodore E., assignor.)						
Emanuel, Philip A., Aiken, S. C. Electric battery	615,539	Dec. 6	605	138	85	1529
Emanuel, Philip A., Aiken, S. C. Electric battery	615,540	Dec. 6	609	139	85	1530
Emanuel, Philip A., Aiken, S. C. Electric battery	615,541	Dec. 6	614	139 140	85	1531
Fmarine, James N., Early, Iowa. Washboiler attachment	604,858	May 31	2987	685	83	1263
Embleton, Denis, Leeds, England. Stamp for crushing ores, &c.	611,615	Oct. 4	38	9	85	10
Emdin, Lionel, and J. A. Dewson, Reading, Pa. Thermal circuit-closer	606,004	June 21	1785	409	83	1728
Eneis, Henry T., Salt Lake City, Utah. Coin-controlled machine	597,965	Jan. 25	2596	607 608	82	554
Emens, George. (See Dunford and Emens.)						
Emerick, Frederick A., Oswego, assignor to Standard Oil Company, New York, N. Y. Crate for bottles, demijohns, &c.	614,204	Nov. 15	1711	392	85	988
Emerick, Frederick A., and H. Craley, Oswego, assignors to Standard Oil Company, New York, N. Y. Combined safety, locking, tilting, and shipping crate	614,205	Nov. 15	1713	393	85	988
Emerick, George S., Philadelphia, Pa. Air-separator	609,537	Aug. 23	2552	597	84	1197
Emerick, George W., Montandon, Pa. Hub-attaching device	608,364	Aug. 2	350	76	84	725
Emerson, Charles H., Marshalltown, Iowa. Draw-bar stop	609,737	Aug. 23	2910	681	84	1267
Emerson Electric Manufacturing Company. (See Briner, Frederick E., assignor.)						
Emerson, Elisha, Buffalo, N. Y. Mold for making calico-printers' rolls	614,245	Nov. 15	1812	418	85	1004
Emerson, George E., and L. G. Merritt, Lockport, N. Y. Vending-machine	596,862	Jan. 4	711	164 165 166	82	139
Emerson Manufacturing Company. (See Thielens, Alexis B., assignor.)						
Emerson, Victor L., Baltimore, Md., assignor to Reliance Dry Kiln Company of Baltimore City, of Maryland. Lumber-storage plant	602,395	Apr. 12	1394	312 313	83	280
Emert, John H., Monmouth, Ill. Refrigerator	602,843	Apr. 26	2179	493	83	459
Emert, Nils S., Omaha, Nebr. Locking-clasp	615,826	Dec. 13	1106	260	85	1642
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Warp stop-motion for looms	605,600	June 14	985	227	83	1561
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Weft stop-motion for looms	605,601	June 14	990	227 228	83	1562
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Shuttle stop-motion for looms	605,602	June 14	993	228 229	83	1562
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Loom	605,603	June 14	995	229 230	83	1563
Emery, Amos E., <i>et al.</i> (See Bragg, Albert C., assignor.)						
Emery, Benjamin P., Kennebunk, Me. Boiler	605,410	June 7	682	151	83	1484
Emery, Charles B., Boston, Mass. Adjustable tread-support for stairs	597,966	Jan. 25	2601	608	82	555
Emery, Charles S., <i>et al.</i> (See Hamilton, Jonathan R., assignor.)						
Emery, Plato G., Chicago, Ill. Sliding-door lock	605,816	June 14	1397	320	83	1637
Emery, William H., Auburn, Me. Puzzle	600,280	Mar. 8	1231	279	82	1474
Emley, Joseph H., <i>et al.</i> (See Melcher, John E., assignor.)						
Emmenegger, Peter, Fairmont, W. Va. Picture-frame	599,774	Mar. 1	176	43	82	1249
Emmerich, Rudolph F., and F. Vonderlehr, New York, N. Y. Bronzing-machine	613,412	Nov. 1	365	83, 84	85	685
Emmerich, Rudolph F., and F. Vonderlehr, New York, N. Y. Bronzing-machine	613,857	Nov. 8	1129	259	85	851
Emmerich, Rudolph F., and F. Vonderlehr, New York, N. Y. Double cam	615,441	Dec. 6	423	101	85	1494
Emmerson, George W. (See Redhead and Emmerson.)						
Emmerson, William A., Comanche, Ind. Ter. Vehicle-hub	601,615	Mar. 29	3519	802	82	1972
Emmitt, Cornelia H. (See Emmitt, Floyd R., assignor.)						
Emmitt, Floyd R., assignor to C. H. Emmitt, Chillicothe, Ohio. Coupling	609,738	Aug. 23	2911	681 682	84	1267
Emond, Thomas, and A. Labée, Brunswick, Me., assignors to Draper Company, Portland, Me., and Hopedale, Mass. Spinning or twisting machine	599,443	Feb. 22	2402	564	82	1116
Emond, William H., Boston, Mass. Turn-plate for vehicles	601,559	Mar. 29	2434	780	82	1956
Empire Type Setting Machine Company. (See McClintock, Frank, assignor.)						
Empire Type Setting Machine Company. (See Moxley, Richard J., assignor.)						
Empson, John H., Longmont, Colo. Pea-shelling machine	604,377	May 24	2126	477	83	1083
Emrich, Peter, <i>et al.</i> (See Applegate, Clarence, assignor.)						
Emringer, Jules, and P. E. Marchand, Paris, France. Apparatus for making aerated waters or beverages	611,616	Oct. 4	39	10	85	11
Endemann, Hermann, Brooklyn, N. Y. Glycerol ether of aromatic compounds	599,123	Feb. 15	1792		82	977
Ender, Louie, Litchfield, Minn. Weather-strip	615,542	Dec. 6	617	140	85	1532
Endslow, Addie S. (See Endslow, William S., assignor.)						
Endslow, William S., Jackson, assignor to A. S. Endslow, Blain, Pa. Hitching or unhitching device	602,313	Apr. 12	1259	278	83	254
Endter, Charles F., Springfield, Ohio. Power-pulley	603,840	May 10	1089	243	83	828
Engberg, Carl, St. Joseph, Mich. Rotary engine	597,274	Jan. 11	1406	330	82	289
Engel, Hugo, assignor to A. Rösch, Berlin, Germany. Combined roundabout and elevator	611,682	Oct. 4	158	38	85	34
Engelbrecht, William, Ash Grove, Ill. Fly-trap	601,953	Apr. 5	650	136	83	122
Engelhardt, Christian. (See Klemm, Hermann A., assignor.)						
Engle, John F., and U. Wedge, Cleveland, Ohio. Character-recording device	616,655	Dec. 27	2689	623 624 625 626	85	1987
Engle, Stephen D., Hazleton, Pa. Flower-jar	599,996	Mar. 1	581	134	82	1323
English, Clarence C., Portland, and W. C. Stranahan, Hood River, Oreg. Wrench	599,895	Mar. 1	423	93	82	1293
English, George C. (See Brazelton, John F., assignor.)						
Englisch, Otto B., Oakfield, N. Y. Railway system	609,335	Aug. 16	2136	516	84	1110
English, Peter, Benton Harbor, assignor of one-half to G. H. Paine, Detroit, Mich. Gas-producer	609,761	Aug. 23	2345	639	84	1274
English, William, Manchester, England. Cover for outdoor seats	611,617	Oct. 4	41	10	85	11
English, William H., Detroit, Mich. Perambulator	606,451	June 23	2645	608	83	1913
Englund, John, Minneapolis, Minn. Music-rack	615,480	Dec. 6	493	114	85	1507
Engman, Charles F., assignor to L. A. Chandler, New York, N. Y. Lubricator	596,863	Jan. 4	716	166	82	140
Engstrand, August, A. D. Sundeen, J. C. Pope, and R. W. Safford, Mora, Minn. Stove or furnace	601,437	Mar. 29	3236	730	82	1915
Engstrom, Jacob B., and J. R. Nix, Manchester, Iowa. Cornice-bracket	597,967	Jan. 25	2602	609	82	555
Engstrom, Pehr J., McKeesport, Pa. Toy	613,981	Nov. 8	1333	303	85	892
Ennis, Charles, assignor of one half to P. A. Mann, Boston, Mass. Protective device for meter-couplings	602,982	Apr. 26	2419	551	83	504
Enns, Abraham B. (See Britt and Enns.)						
Enos, Albertus, Sioux City, Iowa, assignor of one-eighth to H. B. Jerome, Gordonsville, Minn. Sliding-jaw wrench	601,954	Apr. 5	651	136	83	122



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Ensign, Ely. (See Maxon, Thomas, assignor.)						
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Machine for making skewers, pins, &c.	609,336	Aug. 16	2188	516 517	84	1110
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Tread-sanding machine	610,036	Aug. 30	3448	798	84	1385
Ensign, John W. (See Titus and Ensign.)						
Ensign Manufacturing Company. (See Titus and Ensign, assignors.)						
Enslee, David S. (See Gallaway, Albert I., assignor.)						
Ensworth, William J., assignor to Erie Cash Register Company, Limited, Erie, Pa. Adding and recording apparatus	605,705	June 14	1186	273 274	83	1598
Enterprise Manufacturing Company of Pennsylvania. (See Peoples, William, assignor.)						
Entwistle, Edward B., Johnstown, Pa., assignor to Johnson Company, of Ohio. Joining rails	613,799	Nov. 8	1036	235	85	834
Entwistle, James G. W., F. Starr, O. P. Talley, and H. E. Lorance, Chicago, Ill. Vapor generator and burner	603,680	May 10	800	176	83	773
Entz, Justus B., Philadelphia, Pa. Electric railway	611,778	Oct. 4	322	77	85	65
Enyart, Ralph C., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Journal-box for rotary pumps	607,114	July 12	900	195	84	193
Enzinger, Lorenz A., Worms, Germany. Apparatus for manufacturing filtering-plates	605,706	June 14	1189	274	83	1599
Ephraim, Joseph, London, England. Socket-joint or coupling for rods, &c.	605,541	June 14	870	204	83	1541
Epple, Herman, assignor of one-half to P. Stauder, Belleville, Ill. Cut-off for water-spouts or other conduits	608,765	Aug. 9	1064	244	84	883
Eppler, Andrew, Jr., Newton, Mass. Guide for shoe-sewing machines	608,373	Aug. 2	363	79, 80	84	728
Eppler, Andrew, Jr., Newton, Mass. Stitch separating and indenting machine	611,571	Sept. 27	2632	607 608	84	1090
Eppler Welt Machine Company. (See Barbour, George O., assignor.)						
Epstein, Ludwig, London, England. Secondary voltaic battery	606,526	June 28	2757	637	83	1937
Epstein, Mina, Boise, Idaho. Pastry-baking pan	612,803	Oct. 18	2157	513	85	438
Erb, Charles S. (See Hobbs, Jefferson D., assignor.)						
Erb, John J., Livingston, Mont. Combined pack and sled	604,523	May 24	2395	544	83	1130
Erb, William B. (See Gillespie and Erb.)						
Erbach, Valentine, Scranton, Pa. Car-coupling	608,112	July 26	2922	626	84	622
Erben, John, assignor to H. Franke Steel Range Company, Cleveland, Ohio. Stove or range	610,941	Sept. 20	1428	328	84	1752
Erdmann, Sophie, et al. (See Reznicek, Anton, assignor.)						
Erichsen, Robert von, Spottsylvania county, Va. Heating attachment for lamp-chimneys	598,562	Feb. 8	845	202	82	781
Erickson, Axel, Winfield, and A. Johnson, Roseland, Minn. Stacker	597,275	Jan. 11	1408	330	82	289
Erickson, Charles J. (See Keith and Erickson.)						
Erickson, Charles J. (See Lundquist and Erickson.)						
Erickson, Edward, assignor to Flagg Manufacturing Company, Boston, Mass. Sole-rounding machine	599,693	Mar. 1	29	7	82	1221
Erickson, Emil A. (See Boak and Erickson.)						
Erickson, Eric E. (See Erickson, Frederick W., assignor.) (Reissue.)						
Erickson, Eric E. and F. W., Boston, Mass. Interior conduit	607,989	July 26	2704	577	84	576
Erickson, Frederick W. (See Erickson, Eric E. and F. W.)						
Erickson, Frederick W., assignor of one-half to E. E. Erickson, Boston, Mass. Conduit-outlet insulator. (Reissue)	11,097	Oct. 11	1403	339	85	281
Erickson, John. (See Keith and Erickson.)						
Erickson, John. (See Lundquist and Erickson.)						
Erickson, John. (See Walstrom and Erickson.)						
Erickson, Otto, Chicago, Ill. Reed-board	598,176	Feb. 1	184	43	82	637
Erickson, Peter E., assignor to J. W. Czermak, Port Chester, N. Y. Saw set and sharpener	610,266	Sept. 6	223	50	84	1486
Ericksson, Erick A. (See Anderson and Ericksson.)						
Ericksson, Harold L., Larchmont, N. Y. Folding trellis	601,438	Mar. 29	3239	730	82	1915
Erickson, Charles J., Salt Lake City, Utah. Changeable implement	602,314	Apr. 12	1261	279	83	255
Ericson, Eric H., Oscarshamn, Sweden. Cane-gun	610,675	Sept. 13	963	223	84	1643
Ericson, Eric W., Florence, Wis. Bicycle propulsion	610,129	Aug. 30	3591	832	84	1416
Erickson, Lars M., assignor to Aktiebolaget L. M. Ericsson & Company, Stockholm, Sweden. Microphone containing granular carbon for retaining material in position	616,186	Dec. 20	1806	417	85	1796
Erie Cash Register Company. (See Ensworth, William J., assignor.)						
Erikson, Laurence, Evanston, Ill. Pendulum-escapement	602,635	Apr. 19	1807	412	83	372
Erion, William C., Alta Vista, Iowa. Clamp for trimming lamp-wicks	613,130	Oct. 25	2708	640	85	566
Erlanger, Mitchell L. (See Koenig and Erlanger.)						
Ernst, John C., assignor of two-thirds to F. B. Mallory and W. W. Hawke, Flemington, N. J. Bicycle-brake	604,030	May 17	1469	329	83	936
Ernst, Otto, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Violet azo dye and making it	610,349	Sept. 6	401		84	1517
Ervin, Charles E., and O. E. Fryatt, Terre Haute, Ind. Wheel	598,366	Feb. 1	512	123	82	698
Erwin, James L., Burlington, N. C. Folding pedestal	608,659	Aug. 9	834	203	84	849
Erwin, Joseph M., Denver, Colo. Package-carrier for bicycles	607,782	July 19	2284	482	84	478
Esch, Victor H. (See Crane and Esch.)						
Eschenbach, August C., and L. Sielke, assignors of one-fourth to L. Rheinisch, New York, N. Y. Labeling composition	615,613	Dec. 6	731		85	1556
Eschner, Adolph, Philadelphia, Pa. Extension-table	603,078	Apr. 26	2578	585	83	533
Eschweiler, Alexander C., Milwaukee, Wis. Hinge	615,690	Dec. 13	873	201	85	1597
Eshleman, Daniel B., Derry Church, Pa. Reversible trough	601,132	Mar. 22	2671	611	82	1781
Esmond Cycle Saddle Company. (See Drummond, Charles S., assignor.)						
Esmond, Ernest R., New York, N. Y. Furniture	607,657	July 19	2085	435	84	440
Esmond, William V., assignor to M. Kahn, New York, N. Y. Roll-holding camera	607,428	July 19	1491	317	84	321
Esnouff, Alphonse J. (See Woodard, Thomas R., assignor.)						
Espenschied, Fred F. (See Goldman, Samuel S., assignor.)						
Esselen, Henry M., manager. (See Folsom, George F., assignor.)						
Esselen, Henry M., Boston, Mass. Snow-guard	602,901	Apr. 26	2269	517	83	475
Essex, George B. (See Marvin and Essex.)						
Essex Shoe Co. (See Bailey, William E., assignor.)						
Essner, Urban E. (See Howell, John, assignor.)						
Esson, Peter G., Oconto, Wis. Trousers-stretcher	614,447	Nov. 22	2187	502	85	1089
Esson, William B., London, England. Alternating-current dynamo	598,657	Feb. 8	1015	245	82	812
Estabrook, Alanson C., Northampton, Mass. Brush	611,240	Sept. 27	1996	460	84	1880
Estabrook, Jedediah C., Keene, N. H. Barrel	611,067	Sept. 20	1652	378	84	1794
Etard, Alexandre, Paris, France. Treating ores containing gold, silver, or copper	601,640	Apr. 5	28		83	7
Estell, Samuel F., Chicago, Ill. Bottle-seal	615,543	Dec. 6	618	140	85	1532
Estelle, Rhodes, Lexington, Tex. Milk-cooler	608,113	July 26	2924	626	84	622



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Estey, Edmund J., Apponaug, R. I. Nut-lock .....	611,572	Sept. 27	2636	608	84	1999
Estey Organ Company. (See Fuller, Levi K., assignor.)						
Esty, Andrew, assignor of one-half to G. Downes, Calais, Me. Ditching-plow .....	616,300	Dec. 20	2021	470	85	1840
Esveltdt, Gerard. (See Marcott and Esveltdt.)						
Etheridge, Carrol L., Joplin, Mo. Post-winder .....	600,638	Mar. 15	1848	423	82	1611
Etheridge, Carrol L., Joplin, Mo. Wire fence .....	600,639	Mar. 15	1849	423	82	1611
Etheridge, Harry, McKeesport, Pa. Trap for pumping-wells .....	609,269	Aug. 16	2070	491	84	1087
Etsell, Mary A., Minneapolis, Minn. Hat-box .....	612,642	Oct. 18	1869	442	85	382
Etter, Samuel P., Birmingham, Ala. Dephosphorizing iron .....	614,852	Nov. 29	2928		85	1243
Ettiuger, Samuel F., Little Rock, Ark. Toy dart .....	600,772	Mar. 15	2082	477	82	1655
Ettinger, Samuel F., assignor of one-half to G. G. Lucas, Little Rock, Ark. Rein-holder .....	616,832	Dec. 27	3001	699	85	2051
Eugene Dietzgen Company. (See Mack, John G. D., assignor.)						
Eulass, Thomas H., Mason City, Ill. Adjustable curtain-bracket .....	606,962	July 5	563	124	84	111
Eulenstein, Louis, Holstein, assignor of one-half to J. A. Ruge, St. Louis, Mo. Tobacco-pipe .....	612,837	Oct. 25	2243	536	85	472
Eureka Mower Co. (See Davison, George B., assignor.)						
Eureka Stencil Machine Company. (See Hartog, Stephen D., Jr., assignor.)						
Euston, Alexander, St. Louis, Mo. Extracting oil from seeds .....	616,228	Dec. 20	1885	435	85	1812
Euston, Alexander, St. Louis, Mo. Linseed-cake-forming apparatus .....	616,229	Dec. 20	1887	436	85	1812
Evans Brothers. (See Evans, John W., assignor.)						
Evans, Cadwallader. (See Laughlin and Evans.)						
Evans, Charles E., and O. E. Barnhart, Thayer, Kans. Rotary steam-engine .....	607,922	July 26	2588	549	84	555
Evans, Charles O., <i>et al.</i> (See Guerrant, George M., assignor.)						
Evans, Charles S., Meadow Grove, Nebr. Paper-folding machine .....	597,461	Jan. 18	1749	404 405	82 85	373 1840
Evans, Clarence A., Upland, Pa. Pneumatic motor for electric appliances for cars .....	616,301	Dec. 20	2022	471	85	1840
Evans, Clement L. V., trustee. (See Noack and Grossman, assignors.)						
Evans, David W., Pittston, and H. Mathewson, West Pittston, Pa. Machine for separating coal from slate .....	597,404	Jan. 18	1637	380 381	82	351
Evans, Edwin. (See Parry and Evans.)						
Evans, Frank, Homestead, Pa. Furnace-grate .....	597,079	Jan. 11	1098	260	82	230
Evans, George, New York, N. Y. Post and disk attachment for artificial tooth-crowns .....	616,302	Dec. 20	2023	471	85	1840
Evans, George R., San Francisco, Cal. Metallic alloy .....	601,338	Mar. 29	3071		82	1883
Evans, Hannah, Idlewood, Pa. Straining apparatus .....	600,361	Mar. 8	1354	310	82	1497
Evans, Herbert S., Boston, Mass. Skate .....	601,013	Mar. 22	2488	566	82	1744
Evans, Hiram M., Philadelphia, Pa. Painting .....	608,589	Aug. 9	754	173	84	824
Evans, J. E., <i>et al.</i> (See Haskins, Stanley O., assignor.)						
Evans, James, David City, Nebr. Post-auger .....	605,411	June 7	683	151	83	1484
Evans, James P., <i>et al.</i> (See Collier, Joseph, assignor.)						
Evans, James S. (See Hopkins and Evans.)						
Evans, John, Erwood, England. Scaffold-clamp .....	600,860	Mar. 22	2232	509	82	1697
Evans, John, Philadelphia, Pa. Hot-air furnace .....	610,037	Aug. 30	3450	799	84	1386
Evans, John, assignor of one-half to J. L. Hodges, Salt Lake City, Utah. Agricultural sprinkler .....	612,321	Oct. 11	1296	313	85	259
Evans, John W., assignor to Evans Brothers, Greenville, Mo. Box-fastener .....	606,918	July 5	504	110	84	100
Evans, Joseph J., North Tonawanda, N. Y. Tumbler-washer .....	602,190	Apr. 12	1054	230	83	212
Evans, Joseph W., Haskell, Tex. Cycloidal chariot .....	597,276	Jan. 11	1409	330 331	82	289
Evans, Joseph W., Haskell, Tex. Folding bedstead .....	614,377	Nov. 15	2047	472 473	85	1049
Evans, Kyrle S., Milwaukee, Wis. Dual-stairway system for flats .....	610,174	Sept. 6	39	9, 10	84	1449
Evans, Marcellus H. (See Ament and Evans.)						
Evans, Ole, Kerkhoven, Minn. Wrench .....	598,287	Feb. 1	392	91	82	676
Evans, Richard, assignor of one-half to G. J. Hooper, Jr., Richmond, Va. Soft-tread horseshoe .....	610,804	Sept. 13	1199	276	84	1691
Evans, Robert D., <i>et al.</i> (See Gooding and Beauregard, assignors.)						
Evans, Samuel J., and C. M. Armes, Roanoke, Va. Hat-rack .....	613,259	Nov. 1	57	14	85	628
Evans, Samuel J., and H. H. Huggins, Roanoke, Va., assignors to Pope Manufacturing Company, Portland, Me., and Hartford, Conn. Variable gearing .....	598,863	Feb. 8	1343	325	82	874
Evans, Scott F., Minneapolis, Minn. Dumping-platform .....	602,255	Apr. 12	1156	254	83	293
Evans, Valentino M., Brookfield, Mo. Fence-wire stretcher .....	598,413	Feb. 1	601	148	82	717
Evans, Warren R., Portland, Me., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental base-plate .....	606,198	June 28	2151	493	83	1816
Evans, William. (See Higson, John, assignor.)						
Evans, William. (See Holmes, Henry, assignor.)						
Evans, William, Philadelphia, Pa. Hide, skin, or leather machinery .....	602,066	Apr. 12	825	179	83	168
Evans, William F., South Bend, Ind. Sprinkler-head .....	600,065	Mar. 1	802	183	82	1371
Evans, William F., assignor of five-ninths to F. M. Blaney and C. C. Deaver, Baltimore, Md. Fish-hook .....	614,424	Nov. 15	2147	495	85	1068
Evans, William H., Cardiff, England. Frame for bicycles .....	604,743	May 31	2795	639	83	1226
Evans, William S., Point Rock, N. Y. Sled .....	603,758	May 10	923	205	83	796
Evel, James J. (See Semmes and Evel.)						
Eveland, Samuel S. (See Hobron, Charles B., assignor.)						
Eveleth, Clarence M., Plymouth, N. H. Weather-strip .....	609,798	Aug. 30	3017	706	84	1301
Everett, Boyd, <i>et al.</i> (See McClellan, Jackson, assignor.)						
Everett, Edward. (See Thayer and Everett.)						
Everett, Walter, <i>et al.</i> (See Badeker, John, assignor.)						
Everhart, Logan W., assignor of one-half to Z. T. and A. W. Postlethwaite, Chanute, Kans. Wrench .....	609,762	Aug. 23	2947	689	84	1274
Everitt, Robert J., assignor to O. E. A. Wiessner, Brooklyn, N. Y. Spring bed-bottom .....	597,143	Jan. 11	1202	282	82	250
Everitt, Solomon H., McEwensville, Pa. Washing-machine .....	598,983	Feb. 15	1562	371	82	933
Everitt, Walter E., Buffalo, N. Y. Machine for spreading paris-green, &c. ....	609,337	Aug. 16	2191	517	84	1111
Everman, Joseph, <i>et al.</i> (See Bregman, John, assignor.)						
Evershed, Henry. (See Bomford and Evershed.)						
Evershed, Sydney, London, England. Electric meter .....	611,809	Oct. 4	373	90	85	75
Eversmann, Henry, Cincinnati, Ohio. Automatic fire extinguishing and alarm apparatus .....	607,027	July 12	701	152	84	158
Everson, George, <i>et al.</i> (See Smith, Swan, assignor.)						
Everson, George, Detroit, Mich. Dust and cold guard for doors .....	603,480	May 3	431	96	83	684
Evert, Louis J. (See Kiefer and Evert.)						
Evert, William, Asherville, Kans. Corn-cultivating machine .....	597,817	Jan. 25	2351	549	82	506
Eves, Frank and M. Murphysborough, Ill.; said M. Eves assignor to said Frank Eves. Grain and seed separator .....	598,984	Feb. 15	1563	371 372	82	933
Eves, Myron. (See Eves, Frank and M.)						
Evesson, Martin V. B., Aransas Pass, Tex. Boat .....	597,195	Jan. 11	1286	301	82	266



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Evetts, James, assignor to Red Cross Hygienic Company, Chicago, Ill. Disinfecting apparatus	604,562	May 24	2470	561	83	1145
Evinghaus, Hermann, and M. Herbener, Barmen, Germany. Skirt protector	607,840	July 26	2437	517	84	525
Evolution Cycle Company. (See Nichols, Marion L., assignor.)						
Evy, Melvin B., Lima, Ohio. Gage for car-wheels and journals	614,093	Nov. 15	1520	348	85	951
Ewart, Elizabeth F. (See Ewart, Samuel F., assignor.)						
Ewart, John, Lawrence, Mass., assignor to Sheffield Car Company, Three Rivers, Mich. Valve-check	610,479	Sept. 6	631	141 142	84	1559
Ewart, Samuel F., assignor to E. F. Ewart, Pittsburg, Pa. Adjustable crosscut-sawing machine	614,263	Nov. 15	1845	426	85	1011
Ewing, Charles S., <i>et al.</i> (See Lowe, Melvin W., assignor.)						
Ewing, Frank. (See Klay, Jennings, and Ewing.)						
Excelsior Automatic Knitting Machine Company. (See Johns, Will R., assignor.)						
Excelsior Loom Reed Works. (See Adamson, Edward, assignor.)						
Excelsior Needle Company. (See Huke and Weston, assignors.)						
Exley, Fred W. (See Fleming and Exley.)						
Exline, Adam. (See Dipman and Exline.)						
Eyermann, Gottlieb. (See Scott, William H., assignor.)						
Eyl, Emil C., Helena, Mont. Shade-roller fixture	597,354	Jan. 11	1542	360	82	317
Eynon-Evans Manufacturing Company. (See Gamble, Joseph W., assignor.)						
Eynon, John R. (See Eynon, William D. and J. R.)						
Eynon, William D. and J. R., Philadelphia, Pa. Continuous rolling-mill	616,092	Dec. 20	1604	374 375 376 377	85	1756
Eyre, Richard, Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Track-welding	602,284	Apr. 12	1210	266 267	83	243
Eyre, Richard, and W. Dishong, Johnstown, Pa., assignors, by mesne assignments, to Lorain Steel Company, of Ohio. Electrically-welded joint	616,435	Dec. 20	2265	529	85	1888
Eyster, Elmer E., assignor of one-half to F. F. Rogers, Indianapolis, Ind. Air-propelled bicycle	602,618	Apr. 10	1772	405	83	365
F. A. Whitney Carriage Company (See Day, Stillman, assignor.)						
F. B. Fargo & Company. (See Crawford, Frank, assignor.)						
F. B. Fargo & Company. (See Penn, William E., assignor.)						
F. B. Fargo & Company. (See Penn and Brown, assignors.)						
F. B. Fargo & Company. (See Seaver, Fred, assignor.)						
F. B. Parks Tire Healing Company. (See Parks, Fred B., assignor.)						
F. L. Gaylord Company. (See Smith, Herbert W., assignor.)						
F. Wesel Manufacturing Company. (See Baum, Frank W., assignor.)						
Faas, Rudolph, and H. S. Gray, assignors to No-Puncture Tire Company, Chicago, Ill. Armor for pneumatic tires	607,006	July 5	661	143	84	131
Fabbri, Ernesto G. (See Stampacchia, Luigi, assignor.)						
Faber du Faur, Adolph, assignor to C. Schuetz, Newark, N. J. Clip for adjusting cords or wires	613,196	Oct. 25	2811	663	85	587
Facer, Wilson E., assignor of one-half to C. H. Tucker, Cleveland, Ohio. Thermostat	613,062	Oct. 25	2607	617	85	546
Fackner, Edward, New York, N. Y. Lock	609,422	Aug. 23	2342	552	84	1159
Fader, Silas, assignor of one-half to A. Williams and J. T. Carroll, Vancouver, Canada. Back-pedaling brake	603,325	May 3	141	33	83	629
Fagan, Frank B., and E. P. Stoebler, Peoria, Ill. Cushion-tire for vehicle-wheels	616,833	Dec. 27	3002	699	85	2051
Fagg, Benjamin F. B., assignor to himself, J. L. Bartran, Forestville, M. T. Parker, and M. C. Haney, Algona, Wis. Producing engravings	597,277	Jan. 11	1410	331	82	290
Fahrendeller Hütte Winterberg & Jures. (See Möller, Wilhelm, assignor.)						
Fahrradwerke Weltrad, vormals Hoyer & Glahn. (See Hoyer, Gustav, assignor.)						
Faifer, Tony, Chicago, Ill. Temporary binder	612,563	Oct. 18	1714	406	85	353
Fair, Alpharetta, Ashton, Nebr. Key-holder	613,029	Oct. 25	2543	605	85	533
Fair, Andrew J., Walnut Cove, N. C. Tobacco-steamer	605,412	June 7	684	152	83	1484
Fair, George, Boston, Mass., assignor to Fair Loom Attachment Company, Boston, Mass., and Portland, Me. Mispick and smash preventer for shuttles	611,213	Sept. 20	1926	444 445	84	1846
Fair Loom Attachment Company. (See Fair, George, assignor.)						
Fairbank, Fred L., and T. N. Cantril, Des Moines, Iowa. Blotter-bath and absorbent composition therefor	603,841	May 10	1091	244	83	828
Fairbanks, Henry. (See Parker and Fairbanks.)						
Fairbanks, Henry, St. Johnsbury, Vt. Printing-register for weighing-scales	597,640	Jan. 18	2032	471 475	82	430
Fairbanks, Henry, St. Johnsbury, Vt., and R. N. Fairbanks, New York, N. Y. Printing-register for weighing-machines	613,982	Nov. 8	1334	303	85	802
Fairbanks, Henry, and W. H. Sargent, assignors to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Scale	597,641	Jan. 18	2035	475 476	82	431
Fairbanks, Henry, and F. W. Taylor, assignors to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Printing-register for weighing-scales	616,303	Dec. 20	2024	471	85	1841
Fairbanks, Henry W. (See Beckwith, Frank W., assignor.)						
Fairbanks, Robert N. (See Fairbanks, Henry and R. N.)						
Fairbrass, Herbert W., London, England. Centerboard	599,097	Feb. 15	1743	413 414 415	82	969
Fairchild, Irving B. (See Grady, William, assignor.)						
Fairey, Arthur L., Orangeburg, S. C. Stalk-chopper	616,093	Dec. 20	1613	377	85	1758
Fairfield, James, Manchester, N. H. Car-wheel	605,542	June 14	870	204	83	1541
Fairfield, John M., Hartford, Conn. Type-writing machine	605,864	June 21	1514	348	83	1678
Fairhurst, Alfred, Lexington, Ky. Non-refillable bottle	607,923	July 26	2592	550	84	555
Fairhurst, Joseph. (See Whitley, Ralph, assignor.)						
Fairman, Stephen S., assignor of one-half to A. Nelson, New York, N. Y. Clothes-line pulley	597,765	Jan. 25	2252	524	82	488
Fairmount Machine Company. (See Anderson, Gustave E., assignor.)						
Falardeau, Dennis L., assignor of one-third to T. E. Donohoe, Albany, N. Y. Combination kitchen utensil	607,409	July 12	1450	307 308	84	296
Fales, Thomas, assignor of one-half to G. J. Thackary, Bridgeport, Cal. Speaking-tube	604,694	May 24	2704	618	83	1190
Falk, Moses, New York, N. Y. Cover and cutting-tool	616,304	Dec. 20	2025	471	85	1841
Fallek, Nathan, assignor of thirty-one sixtieths to F. Hess, Jr., A. K. Andriano, and I. Harris, San Francisco, Cal. Throw-off switch for telephones	603,681	May 10	801	177	83	773
Faller, Ernst, and H. Herbstritt, San Francisco, Cal. Safety-lock for incandescent lamps	605,279	June 7	424	95	83	1432
Fallon, William O., <i>et al.</i> (See Anderson, Jens, assignor.)						
Fanner, George J., assignor to Fanner Manufacturing Company, Cleveland, Ohio. Machine for setting or securing buttons to shoes	611,837	Oct. 4	429	102	85	85



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Fanner Manufacturing Company. (See Fanner, George J., assignor.)						
Fanta, Ferdinand. (See Joel and Fanta.)						
Farbenfabriken of Elberfeld Company. (See Bammann, Johann, assignor.)						
Farbenfabriken of Elberfeld Company. (See Demuth, Robert, assignor.)						
Farbenfabriken of Elberfeld Company. (See Doeber, Oscar, assignor.)						
Farbenfabriken of Elberfeld Company. (See Eichengrün, Arthur, assignor.)						
Farbenfabriken of Elberfeld Company. (See Hassencamp, Hugo, assignor.)						
Farbenfabriken of Elberfeld Company. (See Heymann, Bernhard, assignor.)						
Farbenfabriken of Elberfeld Company. (See Hock, Karl, assignor.)						
Farbenfabriken of Elberfeld Company. (See Israel and Kothe, assignors.)						
Farbenfabriken of Elberfeld Company. (See Kahn, Myrtill, assignor.)						
Farbenfabriken of Elberfeld Company. (See Kahn and Heidenreich, assignors.)						
Farbenfabriken of Elberfeld Company. (See Kahn and Runkel, assignors.)						
Farbenfabriken of Elberfeld Company. (See Krekeler and Blank, assignors.)						
Farbenfabriken of Elberfeld Company. (See Krekeler and Israel, assignors.)						
Farbenfabriken of Elberfeld Company. (See Krekeler and Martz, assignors.)						
Farbenfabriken of Elberfeld Company. (See Krekeler, Israel, and Blank, assignors.)						
Farbenfabriken of Elberfeld Company. (See Krekeler, Martz, and Israel, assignors.)						
Farbenfabriken of Elberfeld Company. (See Nastvogel, Oscar, assignor.)						
Farbenfabriken of Elberfeld Company. (See Ott and Kroeber, assignors.)						
Farbenfabriken of Elberfeld Company. (See Schmidt, Robert E., assignor.)						
Farbenfabriken of Elberfeld Company. (See Schmidt and Tust, assignors.)						
Farbenfabriken of Elberfeld Company. (See Thun, Karl, assignor.)						
Farbenfabriken of Elberfeld Company. (See Ulrich, Moritz.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Bammann and Ulrich, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Demuth, Robert, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Schmidt, Robert E., assignor.)						
Farbwerk Mülheim, vormals A. Leonhardt & Co. (See Bender, Fritz, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Behring, Emil, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Boedeker, Hermann, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Deicke, Bernhard, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Einhorn, Alfred, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Ernst, Otto, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Gutzkow, Hermann, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Hoffmann, Carl, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See König, Ernst, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Knorr, Ludwig, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Manasse, Otto, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Philips, Alfred, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Schmid, Henri, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Steinike and Schmidt, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Täuber, Ernst, assignor.)						
Fardy, Matthew, Chicago, Ill. Bottle	615,348	Dec. 6	236	56	85	1466
Faries Manufacturing Company. (See Faries, Robert, assignor.)						
Faries, Robert, assignor to Faries Manufacturing Company, Decatur, Ill. Machine for making check-row wire	608,134	Apr. 26	2679	608 609	83	555
Farina, Antoninus, New York, N. Y. Machine for folding and shaping collars	602,067	Apr. 12	827	180	83	168
Farington, Charles W., et al. (See Satterwhite, Emmett J., assignor.)						
Farington, Fred E., et al. (See Satterwhite, Emmett J., assignor.)						
Faris, George W. (See Guncel, Winfield O., assignor.)						
Farley, Egerton H., assignor of one-half to F. R. Newberry, Hamilton, Canada. Mouth-piece attachment for tobacco-pipes	601,373	Mar. 29	3123	705	82	1894
Farley, James, Hertford, England. Joint for earthenware or other pipes	615,149	Nov. 29	3488	801	85	1352
Farley, Jephtha L. (See Herrington, Perry A., assignor.)						
Farley, Jephtha L., De Soto, Mo. Animal-trap	609,338	Aug. 16	2193	517 518	84	1111
Farley, John P., assignor of one-fourth to J. Hollinger, Kansas City, Mo. Self-closing faucet	607,429	July 19	1494	317	84	422
Farlow, James N., Lander, Wyo. Clamping attachment for harness	613,565	Nov. 1	623	144	85	735
Farman, Arthur F., Jr., et al. (See Gittus, Charles, Jr., assignor.)						
Farmer, Albert J., Hartford, Conn. Lathe attachment	603,400	May 3	269	60	83	652
Farmer, Charles H. (See Putnam and Farmer.)						
Farmer, Nathan M., Empire, Colo. Journal-box	610,130	Aug. 30	3592	833	84	1416
Farmers Manufacturing Company. (See East, Wilmer B., assignor.)						
Farmers Manufacturing Company. (See Titus, John C., assignor.)						
Farnam, Charles N., assignor of five-eighths to A. Harbison and W. S. Steele, Hartford, Conn. Bottle filler-guard	609,988	Aug. 30	3368	783	84	1370
Farnam, Etta C., administratrix. (See Miller, Charles G.)						
Farnell, Albert, Bradford, England. Bearing	616,094	Dec. 20	1614	377	85	1758
Farnham, Frank G., Honesdale, Pa. Stamp-holder	596,656	Jan. 4	352	77	82	70
Farnum, William C., Arlington, Vt. Game apparatus	614,094	Nov. 15	1522	348	85	951
Farnworth, Frank. (See Simpson, Walker, Strang, and Farnworth.)						
Farrall, George A., assignor to Johnston Harvester Company, Batavia, N. Y. Grain-harvester	603,759	May 10	923	205 206	83	797
Farrall, George A., and E. Pridmore, assignors to Johnston Harvester Company, Batavia, N. Y. Grain-harvester	608,325	Aug. 2	288	64	84	713
Farrall, Michael, Baraboo, Wis. Railway wrecking-frog	602,597	Apr. 19	1737	395	83	358
Farrand, James W., El Paso, Tex. Billiard-cue	610,131	Aug. 30	3593	893	84	1416
Farrand, James W., assignor of one-half to A. Proussaly, El Paso, Tex. Device for measuring distances	613,566	Nov. 1	625	144	85	755
Farrar, Charles F., Howell, Mich. Fence-weaving device	596,864	Jan. 4	718	167	82	140
Farrar, John J., assignor of one-half to G. C. Hunt, Rapid City, S. D. Hinge	603,897	May 10	1194	270	83	848
Farrar, Mont R., Greensborough, N. C. Sectional sash-weight	608,114	July 26	2925	626	84	622
Farrar, Mont Royal. (See Farrar and Clark.)						
Farrar, William B. and M., and N. A. Clark, Greensborough, N. C.; said Clark and William B. Farrar assignors to said M. Farrar. Self-lubricating shell-roller	597,968	Jan. 25	2603	609	82	555
Farrar, William M., Hoboken, N. J. Car propulsion	614,095	Nov. 15	1523	348 349	85	951
Farrell, Henry O. (See Moores and Farrell.)						
Farrell, John, and P. J. Hoar, Freedom, Pa. Wringer-holding device	608,447	Aug. 2	496	112	84	754
Farrell, John A., and W. Douglas, Morenci, Ariz. Ter. Furnace-blast apparatus	603,181	Apr. 26	2746	625	83	567
Farrell, Michael, assignor of one-half to J. L. C. Cronyn, Buffalo, N. Y. Antifreezing-valve	602,737	Apr. 19	1986	450	83	406
Farrin, Melvin D., Beverly, Mass. Scaffold-bracket	600,773	Mar. 15	2083	477	82	1655
Farrow, Benjamin F., Atlanta, Ga. Hose-coupling	611,618	Oct. 4	41	10	85	11
Farthing, D. J., et al. (See Wagner, Isaac L., assignor.)						
Farwell, Fay O., assignor of one-half to Adams Company, Dubuque, Iowa. Milling-machine	596,491	Jan. 4	44	10, 11	82	11



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Farwell, Fay O., assignor of one-half to Adams Company, Dubuque, Iowa. Sand-press	614,451	Nov. 22	2193	503	85	1090
Fasey, William R., London, England. Diving apparatus	601,729	Apr. 5	204	40	83	40
Fasoldt, Charles, Grand Rapids, Mich. Desk	610,439	Sept. 6	559	123	84	1545
Fauber, William H., Chicago, Ill. Crank-axle lathe	614,853	Nov. 29	2929	672	85	1243
Faulkner, Clay, McMinnville, Tenn. Axle-bearing	603,627	May 10	711	673	83	755
Faulkner, John B., assignor of one-half to C. M. and G. W. Snyder, Mount Pleasant, Iowa. Machine for excavating, conveying, and distributing clay upon ballast-kilns	599,124	Feb. 15	1793	427	82	977
Faulkner, Joseph D. (See Porter and Faulkner.)				428		
Faunce, Ira, Williamsville, Ill. Ball-bearing	609,503	Aug. 23	2497	584	84	1187
Faust, Henry J., Denmark, S. C. Axle-lubricator	609,423	Aug. 23	2343	552	84	1159
Favell, Sophie E., assignor of one-half to E. Abernathy, Statesville, N. C. Wire clothes-pin	605,950	June 21	1680	386	83	1709
Favorite Stove and Range Company. (See Van Wie, Peter G., assignor.)						
Fawcett, John W., assignor of two-thirds to J. N. Fox and J. Bamart, Lawrenceburg, Ind. Car-coupling	602,029	Apr. 5	765	165	83	145
Fay, August M., <i>et al.</i> (See Hadfield, Joseph, assignor.)						
Fay, Charles P., <i>et al.</i> (See Ingram, Harry, assignor.)						
Fay, Eugene, Denver, Colo. Automatic chain-cleaning device for bicycles	602,000	Apr. 5	717	152	83	135
Fay, Fred E., Los Angeles, Cal. Ironing-machine for smoothing edges of cuffs and collars. (Reissue)	11,664	May 17	2086	468	83	1055
Fay, Fred E., Los Angeles, Cal. Dampening device for laundries	615,974	Dec. 13	1370	321	85	1693
Fay, Fred E., Los Angeles, Cal. Machine for smoothing edges of laundried articles	615,975	Dec. 13	1371	321	85	1693
Fay, Logan R., <i>et al.</i> (See Hadfield, Joseph, assignor.)						
Fay, Rimmon C., assignor to Thomas Manufacturing Company, Springfield, Ohio. Bicycle	601,710	Apr. 5	175	33	83	35
Fearl, Thomas J., <i>et al.</i> (See Tombs, Charles C., assignor.)						
Feathers, Joseph W., Kendall, and F. Harris, Albion, N. Y. Tree-protector	614,452	Nov. 22	2194	504	85	1091
Featherstone, Willard B., assignor to Lo-Hi Sprocket Company, San Francisco, Cal. Bicycle-gear-changing mechanism	598,336	Feb. 1	462	110	82	689
Feddersen, Bandick. (See Dethlefsen and Feddersen.)						
Feder Brothers. (See Feder, Marcus, assignor.)						
Feder, Marcus, assignor to Feder Brothers, Cleveland, Ohio. Cigar or cigarette	596,657	Jan. 4	354	78	82	70
Federer, Charles A. (See Bowen and Federer.)						
Fee, H., <i>et al.</i> (See Miller, Gustof J., assignor.)						
Feely, Joseph J. (See Negbaur and Feely.)						
Feeney, Frank, assignor of one-half to P. J. Mulloy, Ardoch, N. D. Auger-handle	598,915	Feb. 15	1439	345	82	909
Feeny, John L. (See Gordon, Minthorne T., assignor.)						
Feeron, Frank E., Sparrow's Point, Md. Oil-burner	613,131	Oct. 25	2709	640	85	566
Fefel, Henry H., New York, N. Y. Means for propelling vessels	599,125	Feb. 15	1797	428	82	978
Fefel, Henry H., New York, N. Y., assignor to Multiple Power Company, of West Virginia. Driving mechanism for bicycles	611,779	Oct. 4	325	78	85	66
Fegley, Victor, Philadelphia, Pa. Neckwear-retaining button	600,220	Mar. 8	1123	256	82	1454
Fehn, Adam, Philadelphia, Pa. Steam cooking apparatus	600,362	Mar. 8	1355	310	82	1498
Fehr, Louisa, Cincinnati, Ohio. Culinary apparatus	601,245	Mar. 29	2883	657	82	1848
Fehr, William, Philadelphia, Pa. Loom-heddle	599,836	Mar. 1	308	69	82	1271
Fehring, Charles W., assignor of one-half to E. F. Nelson, Antigo, Wis. Breast-strap and hame connection	615,827	Dec. 13	1107	260	85	1642
Fehrlin, Henry C., St. Louis, Mo. Purifying acetanilid	615,828	Dec. 13	1108		85	1642
Fehrlin, Henry C., St. Louis, Mo. Making acetanilid	615,829	Dec. 13	1109		85	1643
Fehrmann, Max. (See Brand, Theodore, assignor.)						
Fehrmann, Woldemar, Moscow, Russia. Apparatus for vaporizing and superheating water contained in steam	604,524	May 24	2396	545	83	1130
Feighner, Len W., <i>et al.</i> (See Shields, William E., assignor.)						
Feil, Ludwig, Amberg, Germany. Apparatus for producing uniform mixtures of air and inflammable vapor	596,658	Jan. 4	354	78, 79	82	70
Feingold, Louis, New York, N. Y. Attachment for bicycles	603,326	May 3	143	33, 34	83	629
Feinstein, Selig, and M. Wieselman, St. Louis, Mo. Hydrant	612,898	Oct. 25	2347	558	85	492
Feister, Henry P., Philadelphia, Pa. Match-making machine	603,481	May 3	432	96	83	684
Feister, Henry P., Philadelphia, Pa. Card-cutting machine	610,526	Sept. 13	719	163	84	1593
Feister, Henry P., Philadelphia, Pa., assignor to Feister Printing Company, of Pennsylvania. Perfecting printing-press	602,336	Apr. 12	1396	313 314 315	83	281
Feister Printing Company. (See Feister, Henry P., assignor.)						
Feix, Otto F., Groversville, N. Y. Abrasive appliance	601,133	Mar. 22	2672	611	82	1781
Felbel, Jacob, New York, N. Y. Type-writing machine	610,390	Sept. 6	482	105	84	1531
Felbel, Jacob, New York, N. Y. Type-writing machine	613,365	Nov. 1	262	59 60 61	85	667
Felch, Charles E., assignor of one-half to O. A. and W. L. Felch, Natick, Mass. Means for varying candle-power of incandescent electric lamps	596,582	Jan. 4	214	47	82	43
Felch, Oliver A., <i>et al.</i> (See Felch, Charles E., assignor.)						
Felch, Walter L., <i>et al.</i> (See Felch, Charles E., assignor.)						
Feldkamp, Fritz A., Newark, N. J. Acetylene-gas generator	614,425	Nov. 15	2149	495	85	1068
Feldman, Gust, Walnut, Iowa. Farm-gate	614,540	Nov. 22	2341	536	85	1118
Feldmann, Clarence P., assignor to Helios Electritats Actien-Gesellschaft, Cologne, Germany. Alternate-current meter	602,557	Apr. 19	1668	379	83	346
Feldmeier, Harvey. (See Hoyt and Feldmeier.)						
Feldweg, Charles L., Clay City, Ill. Heating-stove	602,001	Apr. 5	718	153	83	136
Fellows, C. Fred, <i>et al.</i> (See Bradish, Frederick T., assignor.)						
Fellows, Charles, assignor to himself and F. Bigger, Pittsburg, Pa. Dish-cleaner	601,508	Mar. 29	3357	761	82	1940
Fellows & Co. (See Fellows, James F., assignor.)						
Fellows, James F., assignor to Fellows & Co., Troy, N. Y. Cuff	611,241	Sept. 27	1997	460	84	1880
Fellows, Jerome B., North Conway, N. H., assignor to J. B. Fellows & Company, Portland, Me. Convertible folding bed and chair	597,480	Jan. 18	1780	412 413	82	379
Fellows, Joseph, Philadelphia, Pa. Bung-hole-boring tool	613,132	Oct. 25	2710	641	85	566
Fellows, Olin S., Middletown, N. Y. Sealed package	597,109	Jan. 11	1148	271	82	240
Felmlee, John H., assignor to Felmlee & Long Manufacturing Company, Pittsburg, Pa. Machine for wrapping soap, caramels, &c.	606,919	July 5	504	111	84	100
Felmlee & Long Manufacturing Company. (See Felmlee, John H., assignor.)						
Felsche, Reinhard, Magdeburg, Germany. Machine for composing bicycle-frames	602,844	Apr. 26	2180	494	83	459
Felsche, Reinhard, Magdeburg, Germany. Tubular joint for bicycles	615,976	Dec. 13	1373	321	85	1693
Felsing, Samuel D., and E. G. Gustafson, Maplebay, Minn. Automatic straw-stacker	613,260	Nov. 1	58	14, 15	85	628
Felten & Guilleaume. (See Husham, Carl, assignor.)						
Feltenberger, Isaac N., Carnegie, Pa. Fence	606,527	June 28	2758	637	83	1937
Feltgen, Frank, Pittsburg, Pa. Nut-lock	601,463	Mar. 29	3281	741	82	1923



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Feltham, George, Waycross, Ga. Sash-fastener.....	607,685	July 19	2123	445	84	447
Felton, Edwin O. (See Field, David J., assignor.)						
Felumb, Louis, Forest City, Iowa. Antirefilling bottle.....	597,898	Jan. 25	2481	579	82	531
Fenley, Frank, assignor of one-half to E. Perrin, New Orleans, La. Burglar-alarm.....	598,916	Feb. 15	1440	345	82	909
Fenn, Russell H., Leavenworth, Kans. Sash-holder.....	610,805	Sept. 13	1200	276	84	1691
Fennan, William T., assignor to C. Oldoerp, N. T. Keenan, Philadelphia, Pa., and J. J. Mahoney, Atlantic City, N. J. Device for tapping beer-barrels.....	601,749	Apr. 5	246	49	83	47
Fenner, Algar T., assignor of one-half to I. Christiaansen, Rochester, N. Y. Supporting attachment for bicycles.....	609,504	Aug. 23	2498	584 (728 729 730)	84	1187
Fenner, George P., New London, Conn. Printing-press.....	604,974	May 31	3166		83	1298
Fenner, Haydn B. (See Conkling, Eugene, assignor.)						
Fenton, Charles W., Pine Village, Ind. Fence-post.....	600,577	Mar. 15	1759	401	82	1593
Fenton, Ferrar, London, England. Producing artificial gutta-percha.....	599,694	Mar. 1	31		82	1222
Fenton Metallic Manufacturing Company. (See Hood, Arthur F., assignor.)						
Fenton, Patrick C. (See Carroll, Fenton, Kline, and Seltzer.)						
Fentress, William T. (See Russell and Fentress.)						
Fenwick, Albert D., Philadelphia, Pa., assignor to Fenwick Collar and Cuff Machine Company, Portland, Me. Sewing-machine guide.....	599,444	Feb. 22	2403	564 (637 638 639 640 641 642 643)	82	1116
Fenwick, Albert D., Philadelphia, Pa., assignor to Fenwick Collar and Cuff Machine Company, Portland, Me. Machine for forming and folding collar-blanks or the like.....	606,528	June 28	2759		83	1937
Fenwick, Albert D., Philadelphia, Pa., assignor to Fenwick Collar and Cuff Machine Company, Portland, Me. Collar.....	606,859	July 5	422	90, 91	81	84
Fenwick, Albert D., Philadelphia, Pa., assignor to Fenwick Collar and Cuff Machine Company, Portland, Me. Standing collar.....	606,963	July 5	563	124	84	112
Fenwick, Albert D., assignor to Fenwick Collar and Cuff Machine Company, Philadelphia, Pa. Collar, &c. (Reissue).....	11,683	July 26	3015	648	84	639
Fenwick Collar and Cuff Machine Company. (See Fenwick, Albert D., assignor.)						
Fenwick Collar and Cuff Machine Company. (See Fenwick, Albert D., assignor.) (Re-issue.)						
Ferber, Anthony. (See Foster and Ferber.)						
Ferdig, Fred. (See Hall, Moses L., assignor.)						
Fergus, Barbara M., Philadelphia, Pa. Skirt-lifter.....	604,310	May 17	1996	447	83	1038
Ferguson, Anson A., assignor of one-half to M. D. Kieth, New London, Wis. Machine for bending bicycle-rims.....	596,744	Jan. 4	514	118	82	100
Ferguson, Charles A., Rochester, N. Y. Lock-stop for elevators.....	614,297	Nov. 15	1896	438	85	1020
Ferguson, Charles H., assignor to himself and B. V. H. Schultz, Chicago, Ill. Ball-bearing.....	615,150	Nov. 29	3491	892	85	1352
Ferguson Company. (See Ferguson, Thomas S., assignor.)						
Ferguson, David H., Montreal, Canada. Decorative building material.....	598,883	Feb. 8	1378		82	882
Ferguson, David H., assignor of two-thirds to R. W. Smith and Robert T. Hopper, Montreal, Canada. Fireproof door, shutter, &c.....	616,066	Dec. 13	1545	361 (649 650)	85	1727
Ferguson, Edward G., and J. P. Holmen, Kensett, Iowa. Tender for traction-engines.....	601,225	Mar. 22	2842		82	1812
Ferguson, Frank C., Indianapolis, Ind. Fountain-syringe.....	605,178	June 7	215	53	83	1391
Ferguson, George. (See Ferguson, James H., assignor.)						
Ferguson, James, Dundee, Scotland. Loom for weaving fringes.....	610,391	Sept. 6	483	105	84	1531
Ferguson, James C., Fayette, Mo. Nut-lock.....	602,619	Apr. 19	1775	405	83	366
Ferguson, James H., assignor to G. Ferguson, Boston, Mass. Hand tack-driver.....	602,068	Apr. 12	830	180	83	168
Ferguson, James H., assignor to Lovejoy Company, New York, N. Y. Routing-machine for electrotype-plates.....	608,550	Aug. 2	671	152	84	788
Ferguson, John, London, England. Feathering and sheathing propeller-blades.....	598,337	Feb. 1	465	110	82	690
Ferguson, Lindsey O. (See Baker, Chalker, Baker, and Ferguson.)						
Ferguson, Louis A., Evanston, Ill. Safety-fuse.....	597,969	Jan. 25	2905	609 (802 803)	82	556
Ferguson, Mephan, Melbourne, Victoria. Machine for thickening edges of metal plates.....	615,151	Nov. 29	3195		85	1353
Ferguson, Mephan, Melbourne, Victoria. Machine for closing locking-bars used in constructing rivetless pipes.....	615,214	Nov. 29	3641	836	85	1382
Ferguson, Robert, et al. (See Tombs, Charles C., assignor.)						
Ferguson, Robert G. (See Flower, James M., assignor.)						
Ferguson, Thomas B., Jr., Waynesborough, Pa. Fence.....	633,628	May 10	713	159	83	755
Ferguson, Thomas S., assignor to Ferguson Company, Limited, Omaha, Nebr. Egg-tester.....	598,141	Feb. 1	114	27	82	624
Ferguson, Thomas S., assignor to Ferguson Company, Limited, Omaha, Nebr. Adjustable cutter-bit.....	598,142	Feb. 1	116	28	82	624
Ferguson, William P., New York, N. Y. Fulminate-cap for dynamite-cartridges.....	609,963	Aug. 30	3317	772	84	1360
Ferguson, William P., assignor to S. R. Branch, Brooklyn, N. Y. Blasting compound.....	598,064	Jan. 25	2768		82	587
Fergusson, Alan R., assignor to H. F. and G. Miller, Baltimore, Md. Box or can.....	604,112	May 17	1629	366	83	966
Fergusson, Alan R., assignor to H. F. and G. Miller, Baltimore, Md. Box or can.....	604,492	May 24	2347	533	83	1122
Fergusson, Alan R., assignor to H. F. and G. Miller, Baltimore, Md. Box or can.....	604,975	May 31	3168	730	83	1299
Ferland, Joseph E., Lawrence, Mass. Hair-cutter.....	609,090	Aug. 16	1715	408	84	1019
Fernald, James C., assignor to J. A. Smith and J. H. Canavan, Philadelphia, Pa. Trolley device.....	614,941	Nov. 29	3102	712	85	1279
Fernandez, Aurelio, Santiago, Chile. Preserving milk.....	602,315	Apr. 12	1263	279	83	255
Fernandez, Manuel, Los Angeles, Cal. Car-fender. (Reissue).....	11,692	Sept. 13	1334	305	84	1719
Fernekes, Max, assignor of one-half to W. Fernekes, Milwaukee, Wis. Photographic developing apparatus.....	610,392	Sept. 6	485	106	84	1532
Fernekes, Walter. (See Fernekes, Max, assignor.)						
Ferner, Adolph, Chicago, Ill. Piano-action.....	610,963	Sept. 20	1472	336	84	1760
Fernside, George W., assignor of one-half to J. A. Stoughton, East Hartford, Conn. Saw-clamp.....	616,305	Dec. 20	2026	472	85	1841
Feroe, William E., Madolin, assignor to Plattsburgh Filter and Process Company, Plattsburgh, N. Y. Filter for malt beverages.....	608,034	July 26	2810	597 (598 599)	84	599
Ferraioli, Louis, New York, N. Y. Device for ornamenting cakes, &c.....	608,958	Aug. 9	1448	343 (167 168)	84	952
Ferrand, Charles, Paris, France. Steam-generator.....	596,865	Jan. 4	719		82	140
Ferranti, Sebastian Z. de, Hollinwood, England. Manufacturing electric cables.....	614,453	Nov. 22	2195	504	85	1091
Ferranti, Sebastian Z. de, Hollinwood, England. Alternating-current dynamo-electric machine.....	615,265	Dec. 6	83	22, 23	85	1429
Ferranti, Sebastian Z. de, Hollinwood, England. Manufacturing electrical cables.....	615,691	Dec. 13	874	202	85	1597
Ferrata, Giuseppe, Greenville, S. C. Pipe for smoking-tobacco.....	607,601	July 19	1979	411	84	420



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Ferree, William W., assignor to J. F. Floyd, Hardin, Mo. Draft-equalizer	610,267	Sept. 6	225	51	84	1486
Ferreira, Charles E., assignor of one-half to S. T. Bleyer, Chicago, Ill. Feed-water heater and purifier	615,830	Dec. 13	1110	260	85	1643
Ferrell, Newton E., West Finley, Pa. Churn	597,970	Jan. 25	2606	609	82	556
Ferris, Charles G., South Columbia, N. Y. Beeswax-extractor	612,027	Oct. 11	778	192	85	163
Ferris, David S. (See Paget, Leonard, assignor.)						
Ferris, Edwin. (See Nicholsburg, Henry, assignor.)						
Ferris, Frank C., Columbus, Ohio. Mixing-machine	612,584	Oct. 18	1748	414	85	359
Ferris, Henry L., Harvard, Ill. Sled	613,505	Nov. 1	531	120	85	717
Ferris, Henry L., assignor to Hunt, Helm & Ferris, Harvard, Ill. Feed-box	598,563	Feb. 8	846	202	82	781
Ferris, Henry L., and E. B. Hunt, Harvard, Ill. Crank-shaft for bicycles	599,652	Feb. 22	2796	651	82	1193
Ferrisse, Jules. (See Badoni, Massimiliano, assignor.)						
Ferrosteel Company. (See Diplo, Bruce, Semple, and Powell, assignors.)						
Fesser, Alphonse, New York, N. Y. Spring-ring globe-holder	614,164	Nov. 15	1644	377	85	974
Fesser, William. (See Helmers and Fesser.)						
Fette, Friedrich, Collegeville, Cal. Truss	598,177	Feb. 1	185	43	82	637
Fetters, Wilbur, Philadelphia, Pa. Glass-pressing machine	602,636	Apr. 19	1809	412 413	83	372
Fetting, Anton H., Baltimore, Md. Die for manufacturing finger-rings	612,768	Oct. 18	2090	495	85	424
Fetzer, Otto, Cleveland, Ohio. Bicycle	611,780	Oct. 4	325	78	85	66
Fichtenberg, Moritz. (See Demory, Adam R., assignor.)						
Fichtl, Charles J., Jersey City, N. J. Combination-chair for children	606,654	July 5	31	7	84	8
Fick, Minnie, Philadelphia, Pa. Puff-box	599,775	Mar. 1	177	43	82	1249
Fick, Thomas A., assignor to J. Lindsay, Paris, Canada. Mucilage-bottle	605,636	June 14	1064	245	83	1575
Fickscheer, Carl, Cassel, Germany. Machine for pressing cocoa, tea, &c.	612,092	Oct. 11	895	217	85	185
Fiedler, Friedrich L., Halberstadt, Germany. Means for producing pyrotechnic effects on water	600,578	Mar. 15	1760	402	82	1593
Fiegehen, Edward G. (See Fiegehen, John G. and E. G.)						
Fiegehen, John G. and E. G., Bedford, England. Apparatus for producing traversing motion of overhead traveling cranes	608,191	Aug. 2	44	10, 11	84	663
Field, Aaron L., et al. (See Schmidt, Julius H., assignor.)						
Field, Charles H., et al. (See Matteson, Rufus S., assignor.)						
Field, Charles H., Providence, R. I. Apparatus for pressing centers for watchcases	615,831	Dec. 13	1113	260 261	85	1644
Field, David J., assignor of one-half to E. O. Felton, Northampton, Mass. Coffee-pot	596,965	Jan. 4	889	209	82	173
Field, Frederick F., Providence, R. I. Faucet	602,598	Apr. 19	1739	395	83	358
Field, Frederick F., Providence, R. I. Faucet-valve	611,781	Oct. 4	327	78	85	66
Field, George H. (See Lord, Abraham S., assignor.)						
Field, Lute A., Janesville, Wis. Window-screen	611,113	Sept. 20	1756	402	84	1814
Field, Millard F., Boston, Mass. Car-fender	615,977	Dec. 13	1374	321	85	1693
Field, Millard F., assignor to J. Clarke, trustee, Boston, Mass. Loom-harness	600,669	Mar. 15	1908	434	82	1621
Field, Millard F., assignor to J. Clarke, trustee, Boston, Mass. Warp-drawing-in machine	600,670	Mar. 15	1909	435	82	1622
Field, Samuel F., and W. T. Heck, Findlay, Ohio. Packing-ring	603,376	May 3	225	50	83	644
Field, Seymour, Quincy, Mass. Eyeletting-machine	605,574	June 14	933	218	83	1553
Field, Seymour, Quincy, Mass. Eyeletting-machine	606,964	July 5	565	125	84	112
Field, Seymour, Quincy, assignor to Power Eyeletting Machine Company, Boston, Mass. Eyeletting-machine	603,023	Apr. 26	2480	563	83	515
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Electric-cable conductor	615,349	Dec. 6	238	56	85	1460
Fielden, John, Rochdale, England. Wool-drying apparatus	601,317	Mar. 29	3040	684 685	82	1878
Fielder, George B., et al. (See Johnston, Abner, assignor.)						
Fielder, Thomas J., Webster City, Iowa. Transformable wagon-box	616,528	Dec. 27	2460	569	85	1945
Fielding, Harriet C., New York, N. Y. Spool-holder attachment for sewing-machines, &c.	608,035	July 26	2811	598	84	600
Fielding, John, Upton St. Leonards, England. Internal-combustion motor	615,978	Dec. 13	1375	322	85	1694
Fields, John J., Jr., New York, N. Y. Tile flooring	615,832	Dec. 13	1115	261	85	1644
Fields, Lucien B., Kansas City, Mo. Scrubbing-machine	608,326	Aug. 2	289	64	84	713
Fien, Anthony, and J. M. Harrison, Rochester, N. Y., assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Seam-trimming mechanism for sewing-machines	616,306	Dec. 20	2028	472	85	1841
Fieweger, Julius, Menasha, Wis. Hand polishing device	604,895	May 31	3041	698	83	1274
Figanière, Affonso de, Norristown, Pa. Brominating apparatus	612,716	Oct. 18	1995	473	85	406
Figanière, Affonso de, Norristown, Pa. Desulfurizing apparatus	612,717	Oct. 18	1996	473	85	406
Figge, Augustus, Hameln, Germany. Hand appliance for massage	598,773	Feb. 8	1206	292	82	848
Filer & Stowell Company. (See Cunningham, Albert, assignor.)						
Filstrup, Lars L., assignor of one-half to H. P. Schofield, Chicago, Ill. Saw-sharpening machine	615,152	Nov. 29	3498	804	85	1354
Finan, John F., Lonaconing, Md. Rotary clothes, hat, and display rack	612,718	Oct. 18	1997	474	85	406
Finch, Edgar, assignor of one-half to T. Bell, Toronto, Canada, and R. J. Bell, New York, N. Y. Paper box	604,081	May 17	1471	329	83	936
Fincher, Clemon C. (See Pendley and Fincher.)						
Findley, W. A. (See Shaw, Wilber S., assignor.)						
Finerty, Joseph W., Milford, N. H. Stone-cleaning composition	606,759	July 5	232	-----	84	47
Finigan, Peter A., San Francisco, Cal. Starting-gate	601,014	Mar. 22	2489	566	82	1744
Fink, Joseph H., Kansas City, Mo., and R. Andlauer, Kansas City, Kans. Rocker-cushion	608,660	Aug. 9	885	203	84	849
Fink, Lewis. (See Midgley and Fink.)						
Fink, Lewis. (See Perfier and Schneider, assignors.)						
Finkbohner, Charles. (See Lawson, Charles B., assignor.)						
Finkenbinder, John S., St. Louis, Mo. Lap-seam feller	607,005	July 5	660	143	84	131
Finley, Jeff L., et al. (See McCallum, Daniel W., assignor.)						
Finley, John, Granby, Mo. Doubletree	604,916	May 31	3088	709	83	1283
Finn, Edwin, Elkhart, Ind. Scale fulcrum and bearing	606,529	June 28	2789	644	83	1942
Finn, William. (See Burhans, Paul C., assignor.)						
Finnegan, John, assignor to T. Devlin & Co., Philadelphia, Pa. Flagstaff-holder	610,738	Sept. 13	1069	245	84	1664
Finnie, Alexander, Youngstown, Ohio. Car-coupling	598,244	Feb. 1	302	69	82	659
Finotti, Gustavo M., Mission Hill, S. D. Cabinet	602,738	Apr. 19	1988	451	83	406
Finton, Walter L. (See Marcott and Esveldt, assignors.)						
Fippard, Charles, et al. (See Chapman, Charles A., assignor.)						
Fire Extinguisher Manufacturing Company. (See Steck, Ernst F., assignor.)						
Firth, George H., Bradford, England. Governor for steam-engines	611,729	Oct. 4	249	60	85	51
Firth, James N., and J. T., Newburg, N. Y. Meat-holder	603,560	May 3	584	129	83	714
Firth, James N., and J. T.						
Firth, Thaddeus, Jr., et al. (See Ingram, Harry, assignor.)						
Firth, William. (See Ulbrich, Richard C., assignor.)						
Fischer, Albert, Pittsburg, Pa. Governing device	611,619	Oct. 4	42	10, 11	85	11



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Fischer, Albert C., Cincinnati, Ohio. Curtain-fixture	604,656	May 21	2624	600	83	1175
Fischer, Charles H. (See Fischer, Henry B. and C. H.)						
Fischer, Charles H. and H. B., Cincinnati, Ohio. Bottle-washer	605,179	June 7	216	53	83	1392
Fischer, Charles W., and A. J. Rollert, assignors, by mesne assignments, to Theodore A. Kochs Company, Chicago, Ill. Barber's chair	597,278	Jan. 11	1412	331 332	82	290
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making purins	598,502	Feb. 8	743	-----	82	701
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making purin derivatives	607,028	July 12	703	-----	84	159
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Adenin and making same	607,029	July 12	711	-----	84	159
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Obtaining alkyl-uric acid	616,656	Dec. 27	2700	-----	85	1990
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Alkyl derivatives of uric acid and making same	616,700	Dec. 27	2784	-----	85	2006
Fischer, Ernst, Barmen, Germany. Printing-machine	614,541	Nov. 23	2342	526 537	85	1118
Fischer, Friedrich, Worms, Germany. Filter	610,527	Sept. 13	723	164	84	1594
Fischer, Henry B. (See Fischer, Charles H. and H. B.)						
Fischer, Henry B. and C. H., Cincinnati, Ohio. Bottle-washer	605,180	June 7	218	53	83	1392
Fischer, John M., Washington, D. C. Baker's oven	610,648	Sept. 13	922	211 212	84	1635
Fischer, Peter G., Homestead, N. J. Combined laundry-tub cover and draining-board	610,038	Aug. 30	3453	799	84	1386
Fischer, S. M. (See Case, Edward N., assignor.)						
Fischer, Sigismund, New York, N. Y. Electric clock	603,232	Apr. 26	2839	648	83	584
Fischer, Sophian E., Hayward, Cal. Sight for firearms	606,452	June 28	2646	609	83	1914
Fischer, Wilhelm, Sebaldsbrück, Germany. Pencil-case	613,063	Oct. 25	2609	617	85	546
Fischhaber, Manfred, Philadelphia, Pa. Hair-curler	608,036	July 26	2812	598	84	600
Fiscus, Adam, Fiscus, Iowa. Garden-cultivator	602,285	Apr. 12	1214	267	83	244
Fish, Elmer H., Worcester, Mass. Engine-lathe	598,143	Feb. 1	120	28	82	625
Fish, Harry C. (See Ryder, Joshua H., assignor.)						
Fish, Isaac H. (See Ryder and Fish.)						
Fish, John C., assignor to Shelby Electric Company, Shelby, Ohio. Incandescent electric lamp and making same	598,726	Feb. 8	1133	273	82	835
Fish, Myron T., Mecklenburg, N. Y. Adding-machine	614,454	Nov. 22	2197	505	85	1091
Fish, Riley R., La Grange, Ind. Plaque	598,080	Feb. 1	17	5	82	606
Fish, William, Wellingborough, England. Counting apparatus for type-writers or like machines	601,641	Apr. 5	29	6	83	8
Fisher, Alexander D., Toronto, Canada. Skate	612,028	Oct. 11	779	192	85	163
Fisher, Basil J., Ashborough, N. C. Spreading or expanding device	614,611	Nov. 22	2481	566	85	1141
Fisher, Bevy A., Hamilton, Mont. Washing-machine	604,032	May 17	1472	330	83	937
Fisher, Charles. (See Hayes and Fisher.)						
Fisher, Charles, assignor of one-half to H. Segnitz, Milwaukee, Wis. Paper-serving machine	604,113	May 17	1630	366	83	936
Fisher, Charles N., Houston, Tex. Steering device for vehicles	606,409	June 23	2563	593 594	83	1596
Fisher, Edgar B., United, Pa. Incubator	612,322	Oct. 11	1297	313	85	260
Fisher, Edward S. (See Lean and Fisher.)						
Fisher, George A., Hartford, Conn. Saw-guard	615,833	Dec. 13	1116	261 535 536	85	1644
Fisher, George P., Jr., Chicago, Ill., and J. Reif, Jr., Hebron, Ind., assignors to Hercules Woodenware Company, Chicago, Ill. Machine for making slat-and-wire fabric	609,387	Aug. 16	2268	537 538 539	84	1126
Fisher Governor Company. (See Wallace, William M., assignor.)						
Fisher, Henry M. (See Bevington and Fisher.)						
Fisher, Herman. (See Beecher, Thomas, assignor.)						
Fisher, Hiram B., Kalamazoo, Mich. Cuff-holder	598,917	Feb. 15	1442	345	82	919
Fisher, Isaac M., Vinton, Mo. Checkrein-holder	614,649	Nov. 22	2548	581	85	1155
Fisher, John, Matlock Bath, England. Fish-plate for rails	607,358	July 12	1350	288	84	273
Fisher, John E., Elmsdale, Canada. Seam-ripping device	604,675	May 24	2660	609	83	1183
Fisher, Levi, Brantford, Canada. Gang-punch	599,997	Mar. 1	582	134	82	1323
Fisher, Louis, and E. W. Reynolds, Brooklyn, N. Y., assignors to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	604,378	May 24	2129	478	83	1083
Fisher, Sydney S., San Francisco, Cal. Telephone	610,393	Sept. 6	486	106	84	1532
Fisher, Thomas N., assignor of one-third to R. E. Clawson, Cincinnati, Ohio. Seal	602,129	Apr. 12	931	203	83	188
Fisk, Frederick L., et al. (See Ford, John W., assignor.)						
Fisk, Homer W. (See Pulver, Andrew J., assignor.)						
Fiske, Joseph W. (See Beatty, Raymond M., assignor.)						
Fitch, John H., Wesley, Mich. Ratchet-wheel wrench	608,377	May 3	227	50	83	644
Fitch, Thaddeus S., Oakland, Cal. Pocket cigarette-machine	604,208	May 17	1803	406	83	1000
Fitch, Walter H., Indianapolis, Ind. Rail-joint	596,934	Jan. 4	833	197	82	162
Fitchburg Steel Ball Company. (See Gay, John B. F., assignor.)						
Fite, Cephas V., assignor of one-half to R. H. Stowe, Mount Holly, N. C. Rotary engine	615,831	Dec. 13	1117	262	85	1644
Fitshet, William R., Pinnebog, Mich. Dumb-waiter	604,232	May 17	1840	412	83	1007
Fitts, Alfred W., Gadsden, Ala. Broom-head	613,671	Nov. 8	788	180	85	787
Fittz, William B., West Boylston, Mass. Woven fabric for tubular articles	597,672	Jan. 18	2092	490	82	441
Fitz George, George W. A., London, and H. J. Brown, South Darenth, England. Apparatus for enameling paper	597,405	Jan. 18	1638	381	82	352
Fitz Gerald, W. T. (See Gray, John, assignor.)						
Fitz Hugh, Carter H. (See Baker, William E., assignor.)						
Fitzgerald, Edward E., assignor to Edward P. Allis Company, Milwaukee, Wis. Buffer for sawmill-carriages	598,081	Feb. 1	18	5	82	606
Fitzgerald, Edward J., Everett, Mass. Picture-supporter	599,325	Feb. 22	2157	512	82	1067
Fitzgerald, Edward P., et al. (See White, Warren E., assignor.)						
Fitzgerald, George H., Lake Forest, assignor of one-half to M. Moran, Waukegan, Ill. Cushioned horseshoe	598,144	Feb. 1	121	28	82	625
Fitzgerald, James A., Cleveland, Ohio. Corset-clasp	610,480	Sept. 6	632	142	84	1560
Fitzgerald, John H., Frankford, W. Va. Nut and pipe wrench	601,015	Mar. 22	2490	566	82	1745
Fitzgerald, Peter J., Boston, Mass. Incandescent lamp for liquid hydrocarbons	600,774	Mar. 15	2084	477	82	1655
Fitzgerald, Richard. (See Hibbard, Maury W., assignor.)						
Fitzgerald, Richard, Chicago, Ill. Device for actuating fluid-pressure brakes	608,661	Aug. 9	887	204	84	850
Fitzmorris, John, et al. (See Atkinson, Mahlon B., assignor.)						
Fivè, Léon, assignor to La Société des Plaques Lithographiques. Paris, France. Production of lithographic plates	606,709	July 5	135	-----	84	28
Fix, Isaac, Talbot, Ind. Cultivator	600,415	Mar. 8	1438	329	82	1514



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Fixler, Edgar L., Delta, Ohio. Grain separator and cleaner.....	609,091	Aug. 16	1716	{ 408 409	{ 84	1019
Fjeld, Oluf O., Mayville, N. D. Cultivator.....	612,093	Oct. 11	898	{ 217 218	{ 85	186
Fjeld, Oluf O., Mayville, N. D. Lifting attachment for plows.....	614,455	Nov. 22	2198	505	85	1092
Flack, Eli G. (See Gruhlke, Augustus C., assignor.)						
Flad, John F. (See Taylor and Flad.)						
Flagg Brothers Company. (See Flagg, Elisha, assignor.)						
Flagg, Elisha, assignor to Flagg Brothers Company, New York, N. Y. Machine for attaching glove-fasteners to garments.....	608,978	Aug. 9	1487	351	84	961
Flagg, George C., Liberal, Kans., assignor of one-half to E. Carter, Bryant, Ill. Corn-planter.....	615,835	Dec. 13	1119	262	85	1645
Flagg, George H. P., trustee. (See Graham, Charles E., assignor.)						
Flagg Manufacturing Company. (See Erickson, Edward, assignor.)						
Flagg Manufacturing Company. (See St. John, John C., assignor.)						
Flaherty, James F., Philadelphia, Pa. Device for mixing liquids, &c.....	609,270	Aug. 16	2072	492	84	1088
Flammer, John E., Warrenville, N. J. Tree-guard.....	612,585	Oct. 18	1750	414	85	359
Flanagan, Charles H., Southville, and E. Martin, Potsdam, N. Y.; said Martin assignor to said Flanagan. Fence.....	607,410	July 12	1452	308	84	296
Flanagan, Thomas L., Vicksburg, Miss. Truck for handling railway-rails.....	603,947	May 10	1274	290	83	864
Flanders, Johnson B. (See Smith, Brainerd W., assignor.)						
Flanders, Leonard H. (See Manes, James, assignor.)						
Flanigan, Louisa G., Baltimore, Md. Bottle-cap.....	614,942	Nov. 29	3103	712	85	1279
Flanigan, Louise G., Baltimore, Md. Bottle-closure.....	616,529	Dec. 27	2460	569	85	1945
Flannigain, Edward, assignor of one-half to O. G. Shands, St. Louis, Mo. Antifriction-bearing.....	598,414	Feb. 1	602	148	82	717
Flatau, Louis S., assignor of one-half to W. M. Robinson, Dallas, Tex. Chemical fire-extinguisher.....	612,094	Oct. 11	900	218	85	186
Flaunt, Melvin A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. King-post for vehicles.....	614,711	Nov. 22	2664	607	85	1176
Flegel, Harrison, Racine, Wis. Work-bench.....	607,841	July 26	2438	518	84	525
Fleisch, Jacob H., New York, N. Y. Umbrella.....	616,307	Dec. 20	2029	472	85	1842
Fleischmann, Ferdinand, Mödling, Austria-Hungary. Stoppering device for bottles, jars, &c.....	607,842	July 26	2439	518	84	526
Fleming, Cephas. (See Mullins and Fleming.)						
Fleming, David A., assignor to himself and M. Davis, Indiana, Pa. Telephone-transmitter.....	596,808	Jan. 4	622	143	82	120
Fleming, Edward G. (See Weed, Elisha L., assignor.)						
Fleming, James A., Danville, Ill. Scale-beam.....	609,880	Aug. 30	3158	737	84	1329
Fleming, John C., Philadelphia, Pa. Ventilator and air-supplying device for cars.....	612,643	Oct. 18	1871	{ 442 443	{ 85	382
Fleming, Kate. (See Wing, Dwight R., assignor.)						
Fleming, Thomas V., Flemington, Ill. Water-indicator for steam-boilers.....	598,985	Feb. 15	1570	373	82	935
Fleming, Walter J., and F. W. Exley, Hull, England. Tire for velocipedes.....	600,197	Mar. 8	1088	246	82	1447
Fleming, William J., New York, N. Y. Buckle.....	599,695	Mar. 1	32	8	82	1222
Fleming, William J., New York, N. Y. Garment-supporting device.....	613,261	Nov. 1	62	15	85	628
Flemming, Carl. (See Wachter, Wilhelm, assignor.)						
Flemming, Carl E. (See Grommann, Hugo, assignor.)						
Flemming, Carl E., Schoenheide, Germany. Apparatus for forming holes in brush-backs by pressure.....	600,687	Mar. 15	1942	{ 442 443	{ 82	1628
Flesher, Albert, and J. L. Crisler, Alert, Okla. Ter. Fence.....	606,530	June 28	2790	644	83	1942
Flesher, Albert, and J. L. Crisler, Alert, Okla. Ter. Gate.....	608,959	Aug. 9	1449	343	84	954
Flesher, Paul, Hoyt, Kans. Hand-car.....	609,881	Aug. 30	3160	737	84	1330
Fletcher, Evelyn A., Toronto, Canada. Separable object-lesson keyboard.....	603,629	May 10	714	159	83	755
Fletcher, John R., Dayton, Ohio. Bracket for insulators, &c.....	602,576	Apr. 19	1696	386	83	350
Fletcher, Robert, assignor to A. Harrington, Toronto, Canada. Stove.....	610,581	Sept. 13	814	186	84	1612
Fletcher, Wendell C., St. Louis, Mo. Hoisting apparatus for elevators.....	598,415	Feb. 1	604	148	82	717
Fletcher, William A., Beaumont, Tex. Log-hauling locomotive.....	605,413	June 7	685	152	83	1484
Fletcher, William J., St. Paul, Minn., assignor of one-half to Roberts Goss Company, of Minnesota. Friction-clutch pulley.....	614,264	Nov. 15	1847	427	85	1011
Fletcher, William M., Vicksburg, Miss. Compound for destroying vegetation.....	602,739	Apr. 19	1990	-----	83	407
Flickinger, George, assignor of thirty-three fiftieths to C. A. Hager and G. Steinwachs, Buffalo, N. Y. Molding-machine.....	606,779	July 5	276	57	84	55
Flickinger, William B. (See Keller, Henry, assignor.)						
Flindall, John, Chicago, Ill. Velocipede pedal-crank.....	610,175	Sept. 6	40	10	84	1449
Flindt, Carl J. H., assignor to E. Bechtoldt, New York, N. Y. Propeller.....	610,039	Aug. 30	2454	800	84	1386
Flinn, William. (See Dubbs, Jesse A., assignor.)						
Flinn, William T., Jamestown, Ark. Device for salting meat.....	609,799	Aug. 30	3019	707	84	1301
Flint, James J., assignor to Flint & Lomax, Denver, Colo. Electric switch.....	600,112	Mar. 1	888	204	82	1388
Flint & Lomax. (See Flint, James J., assignor.)						
Flint, Robert, Rhyl, England. Window.....	615,692	Dec. 13	875	202	85	1597
Flint, Thomas, Jr. (See Hammond, Grant, assignor.)						
Flint, William C., Glastonbury, Conn. Wrench.....	609,388	Aug. 16	2278	539	84	1128
Flipper, Henry O., Nogales, Ariz. Ter. Tent.....	615,544	Dec. 6	619	140	85	1532
Flocker, Franklin J. (See Lance and Flocker.)						
Flomerfelt, James A., New York, N. Y. Necktie-retainer.....	599,326	Feb. 22	2158	512	82	1068
Flood, John, and J. Kipling, Quebec, Canada. Apparatus for generating acetylene gas.....	601,791	Apr. 5	326	66	83	61
Flood, Patrick, Albany, N. Y. Brake-handle.....	615,614	Dec. 6	733	168	85	1556
Flora, Clarence P., Madison, Ind., assignor of one-half to W. H. Bruning, New York, N. Y. Sash-fastener.....	599,555	Feb. 22	2602	610	82	1153
Flora, Ellsworth E., assignor of one-half to F. L. Eastman, Chicago, Ill. Photographic magazine-camera.....	599,556	Feb. 22	2603	611	82	1154
Flores, Alfredo. (See Vogler and Flores.)						
Florey, Alvin F., assignor to Cornish & Co., Washington, D. C. Piano attachment.....	614,456	Nov. 22	2201	505	85	1092
Flöring, William C., Waterbury, Conn. Water-level indicator.....	607,563	July 19	1908	394	84	407
Flory, Eli and T., Defiance, Ohio. Apparatus for expressing cider.....	602,620	Apr. 19	1776	{ 405 406	{ 83	366
Flory, Timothy. (See Flory, Eli and T.)						
Floryanowicz, Wiktor von, Warsaw, Russia. Producing artificial emery.....	601,246	Mar. 29	2884	-----	82	1848
Flower, James M., assignor of one-half to R. G. Ferguson, Pottsville, Ark. Truss.....	614,612	Nov. 22	2482	567	85	1141
Flowers, Hiland, New York, N. Y. Caster.....	614,096	Nov. 15	1526	349	85	952
Flowers, Samuel, Galion, Ohio. Washing-machine.....	604,657	May 24	2625	601	83	1175
Floyd, George G., Sedalia, assignor to Western Railway Equipment Company, St. Louis, Mo. Draft-rigging.....	607,843	July 26	2441	518	84	526
Floyd, J. F. (See Ferree, William W., assignor.)						
Floyd, Theodore B., assignor of one-half to S. S. Bibbens, Syracuse, N. Y. Office-indicator.....	606,055	June 21	1885	434	83	1746



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Floyd, Wells & Co. (See Brooke, Isaac, assignor.)						
Flucks, Paul, <i>et al.</i> (See Langer, Gotthold, assignor.)						
Flyckt, John J., Warren, Minn. Chisel-holder	604,379	May 24	2130	478	83	1083
Fobare, Fletcher F., Troy, N. Y. Foot-scraper	613,133	Oct. 25	2711	641	85	566
Fobes, Charles M., West Williamsfield, Ohio. Bicycle-brake	605,092	June 7	46	15	83	1361
Fobes, Orson B., Cherokee, Iowa. Carriage-cover	610,647	Sept. 13	921	211	84	1634
Focke, Hans, Radeberg, Germany. Carrier for abrasive hand-tools, files, &c	608,513	Aug. 2	608	136	84	776
Foedisch, Charles O., and E. E. Lang, Chicago, Ill. Curtain-pole holder	612,238	Oct. 11	1140	273	85	233
Foerg, Mathias, Enterprise, Miss. Steam-cooker	616,095	Dec. 20	1615	378	85	1759
Foerster, Hugo, Gorsdorf, Germany. Means for supplying electric current to agricultural machines	610,350	Sept. 6	402	85,86	84	1517
Fogarty, James H. (See Mullin, Joseph P., assignor.)						
Fogarty, James H., New York, N. Y. Float-valve	606,655	July 5	32	7	84	8
Fogarty, John E. (See Seamans, Daniel A., assignor.)						
Fogarty, Thomas B., Newark, N. J. Process of and apparatus for making cyanids and ammonia	598,918	Feb. 15	1442	346	82	910
Fogarty, Thomas B., Newark, N. J. Apparatus for making cyanids	615,266	Dec. 6	86	23,24	85	1430
Fogel, Taylor T., Allentown, Pa. Block signaling apparatus	613,567	Nov. 1	625	145	85	735
Fogg, Charles H., Hyde Park, Mass. Guard for open cars	613,672	Nov. 8	783	181	85	788
Fogleman, David L., Danville, Pa. Stove-truck	601,642	Apr. 5	30	6	83	8
Fogler, George L., assignor of one-half to O. D. Swett, Washington, D. C. Smoke-burning furnace	607,166	July 12	1000	217	84	211
Folger, Howard S. (See Jones, John E., assignor.)						
Follansbee, Howard K., Wellington, Ohio. Protector	613,134	Oct. 25	2713	641	85	566
Follansbee, John, Pittsburg, Pa. Weather-strip	604,676	May 24	2661	610	83	1183
Follett, Edward P., Chicago, Ill. Instrument for laying out gores for skirts	611,995	Oct. 4	703	169	85	138
Follett, Joseph L., New York, N. Y. Bottle-seal	611,242	Sept. 27	1998		84	1880
Folli, Silvestro, <i>et al.</i> (See Magini, Folli, and Antico.)						
Folmer, William F., New York, N. Y. Tripod	608,850	Aug. 9	1257	293	84	918
Folsom, Frank D., <i>et al.</i> (See Toward, Charles P., assignor.)						
Folsom, George F., assignor to H. M. Esselen, manager, Boston, Mass. Snow-guard	602,983	Apr. 26	2420	551	83	504
Foltz, Roy S., and C. A. Phillips, New Castle, Pa. Gage for liquid in vessels	602,069	Apr. 12	833	180	83	169
Folwell, Phillip C., Toronto, Canada. Automatic cut-off for gas-burners	610,623	Sept. 13	884	202	84	1627
Folwell, Phillip C., assignor of two-fifths to G. H. Leslie and G. Hambly, Toronto, Canada. Safety cut-off for gas-cocks	603,233	Apr. 26	2843	648	83	585
Fondu, Jean B., Brussels, Belgium. Safety device for use in glass-spreading furnaces	597,818	Jan. 25	2352	549 550	82	507
Fontaine, Herman A., Auburn, N. Y. Vehicle-tire	605,414	June 7	687	153	83	1485
Fontneau, Frank, Attleborough, Mass. Registering cigar-tip cutter	607,167	July 12	1002	218	84	211
Fooks, Isaac N., Georgetown, Del. Corset-cover	614,650	Nov. 22	2549	581	85	1155
Fooks, Robert H., <i>et al.</i> (See Bennum, George W., assignor.)						
Foos Manufacturing Company. (See Winchell, James F., assignor.)						
Foot Manufacturing Company. (See Bogani, Arthur H., assignor.)						
Foot, Andrew W. (See Wagner and Foot.)						
Foot, Edward H., Somerville, Mass. Garment-hanger	608,766	Aug. 9	1065	244	84	883
Foot, Frederick H., and A. M. Dahl, Chicago, Ill. Traveling conveyer	599,896	Mar. 1	424	93,94	82	1293
Foot, James H., Cincinnati, Ohio, assignor to W. C. Oakley, Chicago, Ill. Weather-strip	612,492	Oct. 18	1586	379	85	329
Foot, Perley K. (See Arnold, Ithamar, assignor.)						
Forbes, Charles S., Strathdon, Scotland. Condenser	604,823	May 31	2918	668	83	1250
Forbes, Henry M. (See Richards and Forbes.)						
Forbes, John W. (See Crain and Forbes.)						
Forbes Lithographic Manufacturing Company. (See Clark, Dwight S., assignor.)						
Forbes, Theodore C., Chicago, Ill. Fender for street-cars	616,701	Dec. 27	2789	647	85	2007
Forbis, Charles O., McLeansville, N. C. Shipping-case for burial-caskets	597,714	Jan. 25	2167	507	82	471
Force, William A., New York, N. Y. Flexible sheet for rubber stereotype-bases	613,064	Oct. 25	2609	618	85	546
Forch, Fred. (See Smith, Robert F., assignor.)						
Forcier, Joseph J., Bay City, Mich. Truck for sleighs	612,029	Oct. 11	781	193	85	163
Ford, Charles T., Central Valley, N. Y. Bridge for sidewalks	599,037	Feb. 15	1660	392	82	953
Ford, David, assignor of one-half to E. N. Parsons, Albion, Mich. Feed-cooker	615,836	Dec. 13	1123	263	85	1645
Ford, Edward L., Youngstown, Ohio. Stop-gate	606,920	July 5	509	112	84	101
Ford, Harry F., Haverhill, Mass. Device for holding brooms, &c	599,982	Mar. 1	560	129	82	1319
Ford, Henry, assignor to W. C. Maybury, trustee, Detroit, Mich. Carbureter	610,040	Aug. 30	3454	800	84	1387
Ford, Jesse S., Westerfield, Ky. Cultivator	610,176	Sept. 6	46	11	84	1450
Ford, John B., Creighton, Pa. Tombstone	604,354	May 17	2083	467	83	1054
Ford, John W., Denver, Colo., assignor of three-fourths to F. L. Fisk, G. B. and F. H. Larimer. Soft-tread horseshoe	614,803	Nov. 22	2822	650	85	1208
Ford, Lewis P. (See Percival, William H., assignor.)						
Ford, Thomas W., and J. A. Lee, Sr., Chattanooga, Tenn. Combination hook-and-ladder truck, &c., and fire-escape	596,676	Jan. 4	384	86,87	82	76
Ford, William A., and J. C. Mormann, Yankton, S. D. Weather-strip	600,640	Mar. 15	1850	423	82	1611
Fordham, Richard B., Lancaster, N. J. Window clothes-hanger	602,316	Apr. 12	1264	279	83	255
Fordney, William J., Rahway, N. J. Fare-recorder	605,247	June 7	353	80,81	83	1418
Fordeyce, Alexander R., assignor to American Metal Lath Fire Proof Construction and Manufacturing Company, Newark, N. J. Roller-die for making metallic lathing	604,695	May 24	2705	618	83	1190
Fordeyce, Edmond A., Chicago, Ill. Switch and back-stop for pneumatic tubes	599,557	Feb. 22	2609	612	82	1156
Fordeyce, John R., St. Louis, Mo. Baling-press	616,457	Dec. 27	2313	539 540	85	1918
Fordeyce, John R., St. Louis, Mo. Roller-compress	616,777	Dec. 27	2910	676 677	85	2032
Fordeyce, John R., St. Louis, Mo., assignor to Thomas Manufacturing Company, Little Rock, Ark. Apparatus for conveying lint-cotton from gins	611,360	Sept. 27	2235	516 517	84	1924
Forehand Arms Company. (See Wright, Arthur C., assignor.)						
Forney, George B., Winchester, Va. Glove	598,774	Feb. 8	1206	293	82	848
Forrer, Albert, Ramsey, N. J. Stump or tree extractor	612,586	Oct. 18	1751	414	85	359
Forrer, Joseph D., Johnstown, Pa., assignor to Steel Motor Company, of Ohio. Electric controller	609,092	Aug. 16	1718	409	84	1020
Forrest, Albert J., Seattle, Wash. Stringed musical instrument	607,359	July 12	1351	289	84	278
Forrest, John T., Chehalis, Wash. Ink-well	614,712	Nov. 22	2664	607	85	1176
Forrest, William, Cortland, N. Y. Self-measuring receptacle	598,503	Feb. 8	744	180	82	761
Forrey, George J., assignor of one-half to S. L. Diven, Carlisle, Pa. Car-coupling	601,643	Apr. 5	31	7	83	8
Forsberg, Peter, assignor of one-half to G. Lagerquist, Minneapolis, Minn. Ventilated mattress	597,058	Jan. 11	1055	248	82	222
Forsell, Carl O., New York, N. Y. Gun-mount	597,178	Jan. 11	1258	295	82	261
Forsheim, Joseph, New York, N. Y. Clasp	603,401	May 3	271	60	83	652
Forster, Frederick W., Philadelphia, Pa. Air-tight package	596,677	Jan. 4	387	87	82	77
Forster, John D., London, England. Prepaid gas-supply meter	602,002	Apr. 5	720	153	83	136



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Förster, Julius F., assignor to E. O. Beyer, Leipsic, Germany. Door-buffer	603,785	May 10	978	218	83	807
Förster, Otto, Wernigerode, Germany. Arch-stone	604,658	May 24	2626	601	83	1176
Forster, William E., assignor to B. Phillips, Lynn, Mass. Roller-head for sole-leveling machines	615,215	Nov. 29	3642	837	85	1382
Forstner, Thomas, New Ulm, Minn. Pipe-wrench	599,169	Feb. 15	1874	444	82	991
Forstner, Thomas, New Ulm, Minn. Wrench	601,772	Apr. 5	289	57	83	55
Forstner, Thomas, Sigel, Minn. Wagon-box	616,778	Dec. 27	2914	678	85	2033
Forsyth Brothers Company. (See Forsyth, George H., assignor.)						
Forsyth, Daniel M., Franklin, Ind. Horse check and hitching device	606,836	July 5	380	81	84	75
Forsyth, Ebenezer. (See Furley and Forsyth.)						
Forsyth, George H., assignor to Forsyth Brothers Company, Chicago, Ill. Curtain-fix- ture	612,606	Oct. 18	1801	426	85	370
Forsyth, Henry H., Chicago, Ill. Shade-holding mechanism	615,442	Dec. 6	424	427 101	85	1494
Forsyth, James B. (See Stetson, Charles T., assignor.)						
Forsyth, James B., <i>et al.</i> (See Keeler, Walter E., assignor.)						
Forsyth, James B., Boston, Mass. Endless tubing and art of and apparatus for making same	598,919	Feb. 15	1445	346	82	910
Forsyth, James B., Boston, Mass. Elastic tire for vehicles	603,268	May 3	46	12	83	609
Forsyth, Wilber D., and E. T. Bell, assignors to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Boiler-tube cleaner	605,951	June 21	1681	386	83	1709
Forsyth, Wilber D., Pittsburg, and J. S. Thompson, Washington, Pa. Pump-piston	616,308	Dec. 20	2031	473	85	1842
Forsyth, William, Fresno, Cal. Preparation of fruit	611,782	Oct. 4	328	78, 79	85	67
Forsythe, Edward A. (See Aske, Charles B., assignor.)						
Fort Dearborn Iron Company. (See Hoon, John M., assignor.)						
Fortaner, Ernst, Munich, Germany. Cutting-tool for pipes and bars	606,130	June 21	2024	463	83	1772
Forter, Samuel, New Castle, Pa. Reverse-valve	603,103	Apr. 26	2623	596	83	542
Forth, Charles, assignor to T. C. Hammond, Newark, N. J. Cash-register	599,418	Feb. 22	2340	552 553	82	1104
Forth, Charles, assignor, by mesne assignments, to American Metal Lath Fire Proof Con- struction and Manufacturing Company, Newark, N. J. Die for making metallic lathing.	604,525	May 24	2397	545	83	1131
Fortuño, Manuel, deceased; P. B. Turpin, Washington, D. C., administrator. Ticket holder and register	604,923	May 31	3096	711 712	83	1284
Forward, Chauncey B., and J. M. Davidson, Cleveland, Ohio, assignors to Forward Re- duction Company, New York, N. Y. Obtaining asphalt from crude petroleum and pe- troleum-tar	611,620	Oct. 4	46		85	12
Forward, Dryden B., Alturas, Cal. Brush	611,114	Sept. 20	1756	402	84	1814
Forward Reduction Company. (See Forward and Davidson, assignors.)						
Fosby, Charles, Rutherford, N. J. Means for stiffening circular saws	601,773	Apr. 5	290	57	83	55
Fosgate, Alfred, Auburn, N. Y. Picture-hanger	606,710	July 5	136	29	84	28
Foss, Edward E., Woburn, Mass. Mail-box	597,179	Jan. 11	1259	295	82	261
Foss, Fred B., Rochester, N. H. Pencil-holder, &c	600,861	Mar. 22	2233	509	82	1697
Foss, Robert F., assignor of one-half to J. W. Haddock, Laconia, N. H. Saw-filing device	599,327	Feb. 22	2159	512 513	82	1068
Foss, William J., Jersey City, N. J. Automatic match-box	609,017	Aug. 16	1583	377	84	994
Foster, Argo M., Cleveland, Ohio. Atomizer	613,413	Nov. 1	368	84	85	685
Foster Brothers Manufacturing Company. (See Foster, Oscar S., assignor.)						
Foster, Charles E., Washington, D. C., assignor to Trojan Car Coupler Company, Troy, N. Y. Vestibule-car	596,866	Jan. 4	721	169	82	140
Foster, Charles E., Washington, D. C., assignor to National Tooth Company, York, Pa. Artificial tooth	607,231	July 12	1125	241	84	233
Foster, Charles E., Washington, D. C., assignor to Barber Asphalt Paving Company, Washington, D. C., and New York, N. Y. Portable apparatus for preparing asphalt paving materials	616,834	Dec. 27	3004	700	85	2052
Foster, Charles W., New Haven, Conn. Reversible-blade propeller	602,902	Apr. 26	2270	517 518	83	475
Foster, Duane A., Santa Rosa, Cal. Wagon-brake	604,380	May 24	2131	478	83	1083
Foster, Edwin L., assignor of one-half to T. E. King, Springfield, Mass. Device for amus- ing children	602,215	Apr. 12	1095	240	83	220
Foster, Frank H., Brooklyn, N. Y. Mechanism for starting, stopping, and controlling speed of motors of electric cars	598,199	Feb. 1	222	51, 52	82	645
Foster, Franklin, Woodward, Mich. Wire-stretching device	597,059	Jan. 11	1056	248	82	222
Foster, Frederick D., Jersey City, N. J. Machine for making buttons	599,696	Mar. 1	33	8, 9	82	1222
Foster, George S., Buda, Ill. Nut-lock	598,920	Feb. 15	1446	347	82	910
Foster, George S., Buda, Ill. Monocycle	599,697	Mar. 1	39	9	82	1223
Foster, George S., Buda, Ill. Apparatus and building for unloading and storing grain	602,502	Apr. 19	1571	359	83	329
Foster, George S., Buda, Ill. Cork-extractor	602,503	Apr. 19	1573	359	83	329
Foster, James, Philadelphia, Pa. Hurdle	615,443	Dec. 6	426	101	85	1495
Foster, James F., and A. Ferber, assignors to S. Shepard & Co., Buffalo, N. Y. Milk-can	611,361	Sept. 27	2238	517	84	1924
Foster, James T., and J. B. Miller, Grapevine, Tex. Hoe-sharpener	615,837	Dec. 13	1126	263	85	1646
Foster, John F., Marceline, Mo. Bicycle	610,582	Sept. 13	815	186 187	84	1612
Foster, Julian A., Salem, Wis. Vehicle-wheel	606,531	June 28	2791	644	83	1942
Foster, Lucian M., Boston, assignor to B. Poole, Topsfield, Mass. Ballot-box	608,662	Aug. 9	891	204	84	851
Foster, Matthew H. (See Chase and Foster.)						
Foster, Merriam & Company. (See Slater, Edmond B., assignor.)						
Foster, Orlando J., Silver Lake, Wis. Burglar-proof express-car	599,170	Feb. 15	1875	444	82	991
Foster, Orra I., Haverhill, Mass. Shoe	609,505	Aug. 23	2499	585	84	1188
Foster, Oscar S., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Bed- stead	596,659	Jan. 4	357	79	82	71
Foster, Oscar S., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Bed- frame construction	597,673	Jan. 18	2094	490	82	441
Foster, Oscar S., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Bed	597,899	Jan. 25	2482	580	82	532
Foster, Oscar S. and W. S., Utica, N. Y. Bed	615,838	Dec. 13	1127	263	85	1646
Foster, R. Guy, <i>et al.</i> (See Johnston, Abner, assignor.)						
Foster, Robert. (See Long and Foster.)						
Foster, Robert J. (See Deans and Foster.)						
Foster, Steve M., <i>et al.</i> (See Edmunds, Eddie, assignor.)						
Foster, Theodore D., Cambridge, Mass. Reversible book-cover	614,426	Nov. 15	2152	495	85	1069
Foster, Thomas, Dunedin, New Zealand. Roller-tooth variable gear	608,851	Aug. 9	1258	293	84	918
Foster, William, <i>et al.</i> (See Gannoe, Thomas A., assignor.)						
Foster, William C., La Crosse, Wis., assignor to H. Boehmer, Barrington, Ill. Fish knife and scaler	598,463	Feb. 1	676	165	82	731
Foster, William D. (See Deans and Foster.)						
Foster, William S. (See Foster, Oscar S. and W. S.)						
Foster, William T., Bozeman, Mont. Tilting gate	603,444	May 3	348	78	83	667
Fougereau, Julius A., Chicago, Ill. Alarm for roller-skates	616,458	Dec. 27	2318	540	85	1919



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Foulois, Henry, Washington Depot, Conn. Siphon.....	608,960	Aug. 9	1451	344	84	954
Fountain, Vincent, assignor of one-fourth to T. F. Ryder, New York, N. Y. Combined pool and billiard table.....	615,350	Dec. 6	240	57	85	1460
Fournier, Eugène, Paris, France. Aldehyde-lamp.....	603,682	May 10	802	177	83	773
Fournier, Eugene, Paris, France. Syringe.....	605,476	June 14	773	178	83	1522
Fournier, Joseph B., Paris, France. Apparatus for using liquefied or compressed gas.....	604,659	May 24	2627	601	83	1176
Fournier, Napoleon, St. Germain de Grantham, Canada. Wheel-harrow.....	610,300	Sept. 6	306	66, 67	84	1501
Fout, Marshall, <i>et al.</i> (See Martz, Randolph N., assignor.)						
Foutch, Adelbert E., assignor to J. M. Davis, New York, N. Y. Book-shelf block-case.....	615,545	Dec. 6	621	141	85	1533
Foveaux, Henry, Wamego, Kans. Mold for fireproof concrete floors.....	610,984	Sept. 20	1520	349	84	1769
Fow, Oscar A., <i>et al.</i> (See Fraley, George B., assignor.)						
Fowler, Allen, and P. N. Green, Union City, Tenn. Burglar-alarm.....	609,739	Aug. 23	2915	682	84	1268
Fowler, Allen, and P. N. Green, Union City, Tenn. Door-lock.....	612,095	Oct. 11	901	218	85	187
Fowler, Anson B., Shelton, Wash. Rolling-pin.....	599,171	Feb. 15	1878	444	82	991
Fowler, Arthur H., assignor to Fowler & Wolf Manufacturing Company, Norristown, Pa. Radiator.....	609,800	Aug. 30	3020	707	84	1301
Fowler, Chalkley T., assignor of one-half to H. S. Adams, Chillicothe, Ohio. Machine for lowering coffins.....	599,669	Feb. 22	2830	658	82	1199
Fowler, Charles M., assignor to F. E. Wellington, Worcester, Mass. Sash-fastener.....	600,862	Mar. 22	2234	509	82	1698
Fowler, Edward C. (See Holley and Fowler.)						
Fowler, Frank, and A. M. Ulmer, Philadelphia, Pa. Automatic weather-strip for doors.....	614,713	Nov. 22	2665	608	85	1176
Fowler, Joseph H., New York, N. Y. Collapsible crate.....	596,745	Jan. 4	516	118	82	100
Fowler, Joseph L., assignor of one-half to J. L. Humphrey, Coal Creek, Tenn. Vehicle-wheel.....	609,424	Aug. 23	2345	552	84	1159
Fowler, Robert F., assignor of one-half to B. Dick, Canton, Ohio. Machine for folding slip-joints for eaves-troughs.....	601,774	Apr. 5	291	58	83	55
Fowler, Robert H., and G. S. Tuer, Leeds, England. Traction-engine with winding-drum.....	604,660	May 24	2629	601, 602, 603	83	1176
Fowler, Robert H., and T. Benstead, Leeds, England. Apparatus for steam cultivation.....	608,514	Aug. 2	610	136, 137	84	777
Fowler, S. Lothrop. (See Cypher, Albert D., assignor.)						
Fowler, Susannah L., Kensington, Md. Abdominal supporter.....	606,410	June 28	2567	594	83	1897
Fowler, Thomas J., Topaz, Cal. Pipe-wrench.....	604,526	May 24	2399	546	83	1131
Fowler, Victor M., Acton, Mass. Knife.....	601,509	Mar. 29	3358	761	82	1940
Fowler, William A., Carruth, Ga. Planter.....	611,469	Sept. 27	2447	564	84	1963
Fowler, William M., Stamford, Conn. Machine for filling and corking bottles.....	606,005	June 21	1786	409, 410, 411	83	1728
Fowler, William M., Stamford, Conn. Filter.....	608,663	Aug. 9	895	204	84	852
Fowler, William R., Baltimore, Md., assignor of one-half to E. I. Hanès, Carbondale, Pa. Locked holder for coats, hats, &c.....	601,053	Mar. 22	2550	581	82	1757
Fowler & Wolf Manufacturing Company. (See Fowler, Arthur H., assignor.)						
Fowles, Arthur S. (See Makepeace and Fowles.)						
Fox, Amos T., Sumner, Wash. Gold-separator.....	615,153	Nov. 29	3499	804	85	1354
Fox, Charles H., Cincinnati, Ohio. Steam-boiler.....	603,482	May 3	435	96, 97	83	685
Fox, Charles H., Cincinnati, Ohio. Steam-generator.....	603,502	May 3	478	106	83	692
Fox, Clarence W., Saugus, J. G. Blount, Everett, and B. J. Noyes, Boston, Mass.; said Noyes and Blount assignors to said Fox. Machine for making tablets, pills, &c.....	597,110	Jan. 11	1149	271	82	240
Fox, Frank A. (See Giberson, Mason B., assignor.)						
Fox, George D., Buffalo, N. Y. Cooking apparatus.....	602,317	Apr. 12	1265	279	83	255
Fox, George W., Chicago, Ill. Detachable-link chain.....	610,583	Sept. 13	817	187	84	1612
Fox, Ivan, Philadelphia, Pa. Eyeglass or spectacle frame.....	614,165	Nov. 15	1645	378	85	974
Fox, Jacob G., assignor to R. A. Smith, Bay City, Mich. Shipping-box.....	602,438	Apr. 19	1468	333	83	309
Fox, John N., <i>et al.</i> (See Fawcett, John W., assignor.)						
Fox, Leander, Lake Arthur, La. Shingle sizer and edger.....	615,693	Dec. 13	877	203	85	1598
Fox Machine Company. (See Fox, William R., assignor.)						
Fox Machine Company. (See Fox and Barrett, assignors.)						
Fox Solid Pressed Steel Company. (See Bagshawe, Bernal, assignor.)						
Fox, Willard H., New Haven, Conn. Envelop-opener.....	605,093	June 7	47	15	83	1362
Fox, William R., Grand Rapids, Mich. Sash cord guide.....	607,739	July 19	2209	467	84	464
Fox, William R., Grand Rapids, Mich. Pulley-bushing.....	614,166	Nov. 15	1647	379	85	974
Fox, William R., Grand Rapids, Mich. Automatic rim-drilling machine.....	614,378	Nov. 15	2049	473, 474	85	1050
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Bicycle-bearing.....	608,961	Aug. 9	1452	344	84	954
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Blanking, forming, and piercing die.....	614,379	Nov. 15	2054	474	85	1051
Fox, William R., and G. J. Barrett, assignors to Fox Machine Company, Grand Rapids, Mich. Type-writing machine.....	614,943	Nov. 29	3104	713, 714	85	1279
Frack, Alfred B., assignor to H. C. Marshall, Girard, Ohio. Wrench.....	601,851	Apr. 5	454	91	83	84
Frahm, Hans, Omaha, Nebr. Folding window-bracket.....	608,115	July 26	2926	626	84	622
Fraipont, Louis E., Paris, France. Apparatus for vaporizing oils.....	605,865	June 21	1516	348	83	1678
Fraley, George B., assignor, by mesne assignments, to O. A. Fow and D. W. Van Tine, Philadelphia, Pa. Composition of matter for electric heaters.....	606,921	July 5	510		84	101
Frambach, Henry A., Kaukauna, Wis. Machine for applying gum or glue to surfaces of webs of paper.....	596,966	Jan. 4	890	209, 210	82	173
Frame, William H., Peabody, Mass. Fence-post.....	602,740	Apr. 19	1990	451	83	407
Frampton, Franklin W., Lexington, Nebr. Self-setting trap.....	596,990	Jan. 11	934	221	82	199
France, Joseph R., assignor to Arlington Manufacturing Company, New York, N. Y. Manufacturing pyroxylin compounds in imitation of marble.....	603,526	May 3	533	117	83	703
Francis, Charles E., Cincinnati, Ohio. Implement for operating screws.....	614,804	Nov. 22	2824	650	85	1209
Francis, Henry A., Niagara Falls, N. Y. Dress-fastener.....	610,394	Sept. 6	487	106	84	1532
Francis, Horis G., Dexter, Mo. Pea-huller.....	597,609	Jan. 18	1987	462, 463	82	422
Francis, John J. and L. C., Cincinnati, Ohio. Washing-machine.....	606,131	June 21	2025	464, 465	83	1773
Francis, Louise C. (See Francis, John J. and L. C.)						
Francis, Susan E., Wellington, New Zealand. Cycling-skirt.....	614,097	Nov. 15	1527	349	85	952
Francisco, Calvin, Newark, N. J. Can-opener.....	604,878	May 31	3017	692	83	1269
Francisco, Charles F., Lakeside, and E. E. Shaffer, San Diego, Cal. Snap-hook.....	607,844	July 26	2442	519	84	526
Franck, Carl, <i>et al.</i> (See Wascinski, Alexander, assignor.)						
Francke, Carl, Berlin, Germany. Electrical safety-lamp for miners.....	616,779	Dec. 27	2916	678	85	2034
Frank, Abraham, New York, N. Y. Cigar-bunching machine.....	613,983	Nov. 8	1337	303	85	893
Frank, Anton, and L. R. Kratzmueller, Chicago, Ill. Intubator.....	614,854	Nov. 29	2932	673	85	1244
Frank, August J., Warsaw, Ill. Warming-oven for oil or vapor burning stoves.....	615,267	Dec. 6	87	24	85	1430



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Frank, George E., Dunmore, Pa. Shaking-grate .....	601,374	Mar. 29	3123	705	82	1894
Frank, Harry J. (See Tilsner, Wilhelm, assignor.) .....						
Frank, Hilda, New York, N. Y. Match-box for bicycles .....	597,279	Jan. 11	1414	332	82	290
Frank, Isaac, Cincinnati, Ohio. Animal-trap .....	609,184	Aug. 16	1895	451	84	1050
Frank, Louise A. (See Dwyer, Patrick V., assignor.) .....						
Frank, Myre H., <i>et al.</i> (See Tyson, William G., assignor.) .....						
Franke, Adolf, Berlin, Germany. Cash-register .....	603,842	May 10	1092	244 245	83	828
Franke, August H., St. Louis, Mo. Oil-filter .....	603,327	May 3	145	34	83	630
Frankenfield, Budd, and D. C. Jackson, Madison, Wis. Method of and apparatus for regulating electric motors .....	599,932	Mar. 1	484	109 110	82	1305
Frankey, James F., Dodge City, Kans. Wall match-box .....	598,884	Feb. 8	1379	392	82	883
Franklin, Charles R., San Francisco, Cal. Steam-trap .....	602,657	Apr. 19	1842	420	83	378
Franklin, Edward A., Austin, Tex., assignor to Chicago Novelty Manufacturing Company, Jersey City, N. J. Churn-dasher .....	615,154	Nov. 29	3501	804	85	1354
Franklin, George, San Marcos, Tex. Combined plow and planter .....	600,416	Mar. 8	1441	329	82	1514
Franklin, George M., <i>et al.</i> (See Hawthorn, John A., assignor.) .....						
Franklin, Jacob. (See Kelley, Peter, assignor.) .....						
Franklin, John M., Mount Braddock, Pa. Fire-escape .....	614,855	Nov. 29	2933	673	85	1244
Franz, William, Allegheny, assignor, by mesne assignments, to Improved Street Sweeper Company, Pittsburg, Pa. Street-sweeper .....	605,415	June 7	688	153 154	83	1485
Franzen, Harm H., Golden, Ill. Weather-strip .....	606,382	June 28	2514	584	83	1887
Franzke, Ernst, Hanover, Germany. Bicycle-lock .....	600,962	Mar. 22	2394	546	82	1727
Fraser & Chalmers. (See Sederholm, Edward T., assignor.) .....						
Fraser, Ethelbert M., assignor to J. J. Mahony and C. E. Green, San Francisco, Cal. Elevator .....	610,481	Sept. 6	633	142	84	1560
Fraser, Ethelbert M., assignor to J. J. Mahony and C. E. Green, San Francisco, Cal. Elevator-gearing .....	616,096	Dec. 20	1617	378	85	1759
Fraser, Graham, New Glasgow, Canada. Marine vessel .....	616,780	Dec. 27	2918	678	85	2034
Fraser, James, London, England. Gas-engine .....	599,496	Feb. 22	2500	588 589	82	1134
Fraser, James, London, England. Gas-producer .....	603,328	May 3	148	34, 35	83	631
Fraser, John, Brighton, Victoria. Fuse-lighter .....	599,998	Mar. 1	581	134	82	1323
Fraser, W. A. (See Shaw, Elver H., assignor.) .....						
Fraser, William, Dobbs Ferry, N. Y. Wagon-brake .....	601,872	Apr. 5	488	100	83	91
Fraser, William, Birmingham, England. Cycle or like wheel .....	612,323	Oct. 11	1299	314	85	260
Fravel, Charles H. (See Boynton and Fravel.) .....						
Frazee, Ira B., Blairstown, Iowa. Alarm .....	603,898	May 10	1195	270	83	849
Frazee, Joseph M. (See Peugh and Frazee.) .....						
Frazee, Walter F., Fruit Hill, Ohio. Book-support .....	608,515	Aug. 2	612	137	84	777
Frazer, Anthony S., Tynemouth, England. Alternating-current electric motor .....	613,135	Oct. 25	2714	641 642	85	567
Frazer, Lewis, London, England. Boot-tree .....	609,339	Aug. 16	2195	518 519	84	1112
Frazier, Horace B., St. Louis, Mo. Punching-bag platform .....	600,775	Mar. 15	2085	478	82	1656
Frazier, Horace B., St. Louis, Mo. Pneumatic punching-bag and platform .....	600,776	Mar. 15	2086	478	82	1656
Frazier, Horace B., St. Louis, Mo. Punching-bag .....	600,777	Mar. 15	2088	478	82	1657
Frazier, Horace B., St. Louis, Mo. Head-protector .....	600,778	Mar. 15	2089	478	82	1657
Frazier, Horace B., St. Louis, Mo. Boxing-glove .....	600,779	Mar. 15	2090	479	82	1657
Frazier, William H., and C. M. Einfeldt, Denver, Colo. Automatic door-opener .....	612,324	Oct. 11	1300	314	85	260
Frazine, William H., Montpelier, Cal. Hay-cocking machine .....	603,816	May 10	1038	231	83	819
Fr�chette, Isaie, Montreal, Canada. Last-holder .....	599,776	Mar. 1	177	44	82	1249
Freck, William, Chicago, Ill. Tablet-machine .....	599,601	Feb. 22	2690	629 630	82	1170
Frederick, John H. (See Whippo, John K., assignor.) .....						
Frederick, Lott, and G. H. Dugan, North Summit, Pa.; said Dugan assignor to said Frederick. Wrench .....	608,767	Aug. 9	1066	245	84	884
Frederick, Robert G. (See Biddinger, Albert W., assignor.) .....						
Frederick, S. S. (See Knupp, Michael, assignor.) .....						
Fredericks, Henry N., South Amboy, N. J. Farm-gate .....	612,325	Oct. 11	1301	315	85	260
Frederickson, Clayton E., Denver, Colo. Ratchet monkey-wrench .....	605,444	June 7	727	164	83	1493
Frederickson, Jorgen, Gaylord, Mich. Saw-set .....	606,335	June 28	2431	562	83	1872
Frederitz, Louis, Maxville, Mo. Clothes-brush .....	615,839	Dec. 13	1129	264	85	1646
Fredman, Charles, assignor of one-half to J. Halles, New Hamburg, N. Y. Match-receptacle and igniting device .....	596,492	Jan. 4	47	11	82	12
Fredrick, Edward H., Toledo, Ohio. Adjustable handle-bar for bicycles .....	613,673	Nov. 8	791	181	85	788
Fredrick, Henry. (See Laible and Fredrick.) .....						
Fredrickson, August, assignor to J. A. Lewis, Meridian, Miss. Hanger for journals .....	610,440	Sept. 6	560	123	84	1545
Fredrickson, James. (See Johnson, Johannes H., assignor.) .....						
Fredson, Samuel C., Woosung, Ill. Bouquet-holder .....	605,543	June 14	871	204	83	1541
Free, Allison N., assignor of one-third to L. R. Ninnemann, Milwaukee, Wis. Flower-pot .....	608,664	Aug. 9	897	205	84	852
Freeble, Thomas M., Latrobe, assignor of one-fourth to T. B. Atterbury, Jr., Pittsburg, Pa. Powder-motor .....	605,445	June 7	728	164 165	83	1493
Freeborn, Harry L. (See Paddock and Freeborn.) .....						
Freed, Isaac, Harrisburg, Pa. Electrical safe-protection system .....	604,033	May 17	1472	330	83	937
Freed, Isaac, Harrisburg, Pa. Safe for passenger-cars .....	606,336	June 28	2432	562	83	1872
Freeman, Edward S. (See Kanski and Freeman.) .....						
Freeman, Edwin. (See Freeman, William J. and E.) .....						
Freeman, Edwin T., Halifax, Canada. Nailing-machine .....	607,924	July 26	2593	550 551	84	555
Freeman, Edwin T., Halifax, Canada. Nailing-machine .....	615,481	Dec. 6	494	114 115	85	1507
Freeman, Herbert A., Providence, R. I. Plug-valve .....	611,899	Oct. 4	532	129 130	85	106
Freeman, Herbert H., Pierre, S. D. Automatic wagon-scale .....	601,339	Mar. 29	3072	693	82	1884
Freeman, Herbert H., Pierre, S. D. Rotary steam-engine .....	609,579	Aug. 23	2625	614	84	1211
Freeman, James T., <i>et al.</i> (See Martyn, Fred M., assignor.) .....						
Freeman, James T., <i>et al.</i> (See Parkhurst, Edward B., assignor.) .....						
Freeman, John M., Racine, Wis. Pneumatic-tire armor .....	599,497	Feb. 22	2502	590	82	1194
Freeman, Warren P., New York, N. Y. Apparatus for cleaning paint from ships .....	607,794	July 19	2308	488	84	482
Freeman, Warren P., New York, N. Y. Apparatus for cleaning ships' plates .....	611,996	Oct. 4	705	170	85	138
Freeman, Warren P., assignor to R. J. Campbell, New York, and F. Larkin, Jr., Sing Sing, N. Y. Electrodynamic apparatus for operating clipping, brushing, or other mechanisms .....	608,768	Aug. 9	1068	245	84	884
Freeman, Simon J., Bradford, Pa. Strainer for coffee-pots .....	601,955	Apr. 5	652	137	83	122
Freeman, Thomas E. (See Henderson and Freeman.) .....						
Freeman, Warren P., New York, N. Y. Instrument for calking ships .....	606,199	June 28	2152	494	83	1816



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Freeman, William C., Kalkaska, Mich. Butter-mold .....	598,775	Feb. 8	1207	293	82	848
Freeman, William J. and E., London, England. Driving-gear for velocipedes, &c. ....	599,445	Feb. 22	2405	565	82	1117
Freer, William G., New York, N. Y., assignor to Warren Webster & Company, of New Jersey. Pressure-regulating apparatus .....	613,080	Oct. 25	2544	605	85	533
Freese, Francis J., Montreal, Canada. Sole-cutting machine .....	607,165	July 12	996	215 216 217	84	210
Freese, Francis J., Montreal, Canada. Loop-retainer for sewing-machines .....	614,457	Nov. 22	2204	506	85	1093
Freese, Francis J., Lowell, Mass. Sole-channeling machine .....	607,990	July 26	2706	577 578	84	576
Freir, Samuel P. (See Smith and Freir.)						
Freitag, Christian A., Amsterdam, Netherlands. Apparatus for burning pulverulent fuel .....	610,845	Sept. 13	1262	291 292	84	1704
Fremerey, Alfred, Cologne, Germany. Rope-tread horseshoe .....	604,034	May 17	1474	330	83	937
French, Everett M., Stoughton, Mass. Electric switch .....	597,642	Jan. 18	2038	476	82	432
French, Frank S., et al. (See Bullock, William J., assignor.)						
French, Henry, Elkhart, Ind. Bread-toaster .....	613,136	Oct. 25	2716	642	85	567
French, Henry A., Lansing, Mich. Windmill .....	607,430	July 19	1495	318	84	322
French, Hiram W., Bellevue, Pa. Apparatus for forming hair felt .....	606,163	June 21	2084	479 480	83	1784
French, Leroy W., Phillipsburg, Kans. Animal-poke .....	604,744	May 31	2796	640	83	1226
French, Marcellus, Houston, Va. Balloon-torpedo .....	603,182	Apr. 26	2747	625	83	567
French, S. G., Jr. (See Bidwell, Robert G., assignor.)						
French, Samuel E., New York, N. Y. Cycle .....	597,843	Jan. 25	2396	558	82	516
French, Zachary T. (See Meyer and French.)						
French, Zachary T., and W. C. Meyer, Boston, Mass. Welt-beating machine .....	598,727	Feb. 8	1135	273	82	835
French, Zachary T., and W. C. Meyer, Boston, Mass. Trimming and channeling machine .....	599,602	Feb. 22	2693	630 631	82	1171
Frenchel, Charles, Philadelphia, Pa. Composition for artificial stone .....	611,621	Oct. 4	49		85	12
Freret, Gustave, assignor to J. C. Witter Company, New York, N. Y. Making plaster-of-paris casts or forms from molds .....	612,626	Oct. 18	1838		85	377
Frerich, John W. and J. H., Alvord, Iowa. Ankle-brace .....	609,538	Aug. 23	2554	597	84	1198
Frerich, Joseph H. (See Frerich, John W. and J. H.)						
Freschl, Alfred, Milwaukee, Wis. Apparatus for making upholstery .....	616,097	Dec. 20	1618	378 379	85	1759
Freshour, Henry C., Bridgeport, Conn. Rubber pump-bucket .....	605,707	June 14	1191	274	83	1600
Fretwell, John A., Buford, Ga. Back-band for harness .....	602,003	Apr. 5	721	153	83	136
Fretz, Samuel S., Philadelphia, Pa. Detachable handle for umbrellas or parasols .....	605,708	June 14	1192	275	83	1600
Freudenthal, H. E., et al. (See Duque, Luis, assignor.)						
Freudenweiller, Frederick R. (See Rich and Freudenweiller.)						
Freund, Gustave A., Hermann, Mo. Flower-pot and hanging basket .....	608,590	Aug. 9	755	174	84	825
Freund, Jacob, Cincinnati, Ohio. Tile and arrangement thereof in roofs .....	604,035	May 17	1475	330	83	937
Frey, John A., Ottumwa, Iowa. Attachment for water-closets .....	601,375	Mar. 29	3125	706	82	1894
Friant, Thomas, et al. (See Linn, Allen B., assignor.)						
Friberg, Charles P. A. (See Hunt and Friberg.)						
Frick Company. (See Oderman, Eric H., assignor.)						
Frick Company. (See Shadall, Charles E., assignor.)						
Frick Company. (See Shipley, Thomas, assignor.)						
Frick, Henry H., Fricks, Pa. Portable bridge .....	596,867	Jan. 4	722	169	82	141
Frick & Lindsay Company. (See Adams, Samuel, assignor.)						
Friction Pulley and Machine Works. (See Dodge, George W., assignor.)						
Fridolph, Anna S., Wayne, Nebr. Washing-machine .....	598,597	Feb. 8	905	217	82	793
Fridstrom, Axel, et al. (See Larson and Branzell, assignors.)						
Fried, Krupp Grusonwerk. (See Martin, Carl, assignor.)						
Fried, Krupp Grusonwerk. (See Steinbach, Reinhold, assignor.)						
Fried, William A., Hamburg, Germany. Stereoscope .....	597,520	Jan. 18	1843	427	82	392
Friedenwald, Joseph. (See Wiesenfeld, Robert S., assignor.)						
Friedheim, David, New York, N. Y. Fire-escape .....	610,041	Aug. 30	3456	800	84	1387
Friedlich, Melville. (See Jones, Thomas M., assignor.)						
Friedman, Edgar, assignor of one-fifth to L. Baeppler, Dobbs Ferry, N. Y. Apparatus for racking beer, ale, or other liquors .....	602,256	Apr. 12	1159	254	83	234
Friedrich, Ludwig, Pittsburg, Pa. Glass-worker's tool .....	606,200	June 28	2153	494	83	1816
Friel, Augusta B., Los Angeles, Cal. Dress or garment form .....	608,327	Aug. 2	292	64, 65	84	713
Fries, Joseph, Marion, Ind. Window-screen fastener .....	609,197	Aug. 16	1918	457	84	1055
Fries, William A., Sr., Brooklyn, N. Y. Bottle .....	603,527	May 3	535	118	83	703
Fries-Greene, William, assignor to Automatic Photo Printing Syndicate, Limited, London, England. Means for composing characters and producing photographic negatives therefrom .....	602,439	Apr. 19	1469	334 335 336	83	309
Frigard, Julio, Carthagena, Spain. Cable-grip .....	614,380	Nov. 15	2056	475	85	1051
Frink, George E., assignor to E. Jenckes Manufacturing Company, Pawtucket, R. I. Mechanical movement .....	599,698	Mar. 1	41	10	82	1224
Frink, George E., assignor to E. Jenckes Manufacturing Company, Pawtucket, R. I. Knitting-machine .....	615,384	Dec. 6	314	74	85	1474
Frink, Holland V., Carthage, N. Y. Milk-can .....	609,018	Aug. 16	1584	377	84	994
Frisbee, Daniel D., Detroit, Mich. Fence .....	605,094	June 7	49	15, 16	83	1362
Frisbie, Henry R., Belleville, assignor of one-half to D. Dodd, Newark, N. J. Valve-handle .....	604,696	May 24	2707	618	83	1190
Frisbie, Warren M., assignor of one-eighth to W. McElhiney, North Baltimore, Ohio. Compressed-air burglar-alarm .....	610,482	Sept. 6	637	143	84	1561
Frisby, William H. (See Marker, Stephen A., assignor.)						
Friske, Robert, and F. Kasperek, Irwin, Pa. Plate-glass-polishing machine .....	613,984	Nov. 8	1338	303 304	85	893
Frist, Robert P. (See Hoffman and Frist.)						
Frist, Robert P., et al. (See Hoffman, Edmund, assignor.)						
Fritschle, Emil, assignor to himself and J. Schottmuller, New York, N. Y. Valve for pneumatic tires .....	603,269	May 3	47	12	83	609
Frith, Arthur J., New York, N. Y. Bucket conveyer .....	597,844	Jan. 25	2398	558	82	516
Fritz, Adelia R., Waverly, Iowa. Tablet .....	596,583	Jan. 4	217	48	82	43
Fritz, Charles P., assignor to W. M. Speakman, Philadelphia, Pa. Tool-holder for dental handpieces .....	610,483	Sept. 6	639	143	84	1561
Fritz, Harry A., Chicago, Ill., assignor to Universal Car Bearing Company, New York, N. Y. Car-axle bearing .....	605,817	June 14	1399	320	83	1638
Fritz, Jacob, et al. (See Koch, Gustav, assignor.)						
Fritz, Louis. (See Bechtel and Fritz.)						
Fritze, Carl. (See Zestermann, Adolph, assignor.)						
Fritzinger, Erastus. (See Wemhoff, George E., assignor.)						
Fritzus, George B., and W. N. Marks, Braddock, Pa. Device for assisting vehicle-wheels off car-trucks .....	616,702	Dec. 27	2790	647	85	2007



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Fritzsche & Co., Franz. (See Ziegler, Josef, assignor.)						
Fröhlich, Henry, Honolulu, Hawaii. Safety device for water-gages	599,603	Feb. 22	2701	631	82	1172
Fröhlich, Bernhard, Leipsic, Germany. Parallel vise	614,298	Nov. 15	1899	438	85	1020
Frohlich, George W., Chicago, Ill. Display-box	605,248	June 7	355	81	83	1418
Frossard, Henri J. J. (See Villejean and Frossard.)						
Frossard, John, Pepperell, assignor of one-half to W. Spaulding, Townsend, Mass. Rotary brush	597,521	Jan. 18	1844	427	82	392
Frost, Cassius C., Fulton, Ohio. Parachute	604,976	May 31	3169	730	83	1299
Frost, Charles W., Philadelphia, Pa. Calendar	600,344	Mar. 8	1327	303	82	1492
Frost, Edward J. (See Biddle and Frost.)						
Frost, Everett C. (See Haffey, James F., assignor.)						
Frost, Francis W. (See Clarke, Charles J., assignor.)						
Frost, Fred J., T. Souers, and C. W. Cooledge, Grundy Centre, Iowa. Check-hook	603,234	Apr. 26	2845	649	83	585
Frost Gear Case Company. (See Phillips, Norman A., assignor.)						
Frost, James C., assignor of one-third to A. C. Creamer, Athens, Ohio. Fence-post	610,042	Aug. 30	3456	{ 800 801 }	{ 84 }	1387
Frost, Parmenas F. (See Graham and Frost.)						
Frost, Thomas. (See Haynes, Henry, assignor.)						
Frost, Walter E., assignor to O. S. Ham, Lewiston, Me. Automatic electric fire-alarm	603,270	May 3	49	12	83	610
Frost, Walter S., London, England. Atomizer	602,070	Apr. 12	834	181	83	169
Frost, Warren H., New York, N. Y. Case for driving-gear	600,911	Mar. 22	2313	527	82	1712
Frost, William B., Maumee, Ohio. Combined holdback and whiffletree	616,098	Dec. 20	1619	379	85	1759
Frotscher, Oscar, Philadelphia, Pa. Window	599,230	Feb. 15	1964	466	82	1008
Frotscher, Oscar, Philadelphia, Pa. Window	611,031	Sept. 20	1594	366	84	1784
Frueh, Emil, Cedar Rapids, Iowa. Crozing or grooving tool for barrels, &c	611,408	Sept. 27	2334	538	84	1942
Fry, Christopher, <i>et al.</i> (See Kerr, James G., assignor.)						
Fry, George B., Bynum, Mont. Cashier-protector	602,741	Apr. 19	1992	451	83	407
Fry, John H., assignor of one-third to L. A. Cornelius, Grand Rapids, Mich. Hose-nozzle	604,036	May 17	1476	331	83	937
Fryatt, Oren E. (See Ervin and Fryatt.)						
Frydmane, Jules, Paris, France. Apparatus for copying, registering, checking, and adding	604,977	May 31	3170	{ 730 731 }	{ 83 }	1299
Frye, Charles E., Wilton, N. H. Cutter-bar	604,311	May 17	1997	448	83	1038
Frye, John H., Taylor's Falls, Minn. Veterinary tooth-cutter	613,506	Nov. 1	532	120	85	717
Fryer, Charles J. (See Megonigal, John P., assignor.)						
Fryer, George G., assignor to Solvay Process Company, Syracuse, N. Y. Filtering apparatus	606,453	June 28	2647	609	83	1914
Frykholm, Nils E. (See Ringström, August V., assignor.)						
Fuchs, Adolph. (See Jassen, Bern, assignor.)						
Fuchs, Edward, assignor to New York Stencil Works, New York, N. Y. Fare-register	602,700	Apr. 19	1928	438	83	395
Fuchs, Gustav, assignor to M. Koblenzer, Vienna, Austria-Hungary. Device for collecting contents of contribution-boxes	604,527	May 24	2400	546	83	1131
Fuerchteringer, John, Philadelphia, Pa. Garment-hanger	599,777	Mar. 1	178	44	82	1249
Füger, Joseph. (See Nerenz, Herman, assignor.)						
Fugh, George H. (See Orr and Fugh.)						
Fugman, Godfrey, Cleveland, Ohio. Metallic partition	601,873	Apr. 5	490	101	83	91
Fuhlmann, Herman C., Eliza, Ill. Non-refillable bottle	602,156	Apr. 12	996	218	83	201
Fuhr, Carl. (See Kosanke, Fuhr, and Krausse.)						
Fuhr, Henry J. (See Fuhr, John C. and H. J.)						
Fuhr, John C. and H. J., Williamsburg, Ohio. Carbureter	604,932	May 31	3108	{ 714 715 }	{ 83 }	1237
Fuhrmann, John T., and E. Nelson; said Nelson assignor, by mesne assignments, of one-half to H. H. Vaughan, St. Paul, Minn. Attachment for flue or tube expanders	612,838	Oct. 25	2244	{ 536 537 }	{ 85 }	472
Fulcher, William H., assignor of one-third to J. Perrott, Jr., Stockton, Cal. Bottle	596,746	Jan. 4	517	118	82	100
Fulcher, William H., and S. E. Latta, Stockton, Cal. Gold-separator	600,579	Mar. 15	1761	402	82	1593
Fuld, Manes E., Baltimore, Md. Electric battery	612,326	Oct. 11	1303	315	85	261
Fulford, Elijah D., Utica, N. Y. Pigeon-trap	611,622	Oct. 4	49	11, 12	85	12
Fulford Gear Case Company. (See Fulford, John W., assignor.)						
Fulford, John W., assignor to Fulford Gear Case Company, Utica, N. Y. Bicycle chain and sprocket guard	611,750	Oct. 4	276	66	85	56
Fuller, Bert, Sacramento, Cal. Carpenter's tool	602,130	Apr. 12	932	204	83	188
Fuller, Cornelius, Warren, R. I., assignor of one-half to Somerset Stove Foundry Company, Somerset, Mass. Grate	604,143	May 17	1680	377	83	976
Fuller, Frank D. (See Eames, Gardner T., assignor.)						
Fuller, Fred V., Boston, Mass. Crane-derrick	596,868	Jan. 4	723	169	82	141
Fuller, Frederick L., Trenton, N. J. Price-scale	602,658	Apr. 19	1843	420	83	378
Fuller, Frederick L., Trenton, N. J. Indicating or like mechanism for price-scales or other machines	603,503	May 3	481	107	83	693
Fuller, Frederick L., Trenton, N. J. Indicating or like mechanism for price-scales	603,504	May 3	484	107	83	694
Fuller, Frederick L., Trenton, N. J. Indicating or like mechanism for price-scales	603,505	May 3	489	108	83	695
Fuller, Harry, assignor to King Bridge Company, Cleveland, Ohio. Carriage mechanism for hoisting and conveying machines	609,615	Aug. 23	2707	{ 631 632 }	{ 84 }	1226
Fuller, Henry D., <i>et al.</i> (See Jordan and Baum, assignors.)						
Fuller, J. Ensign, assignor of one-third to G. W. Munro, New York, N. Y. Primary battery	600,850	Mar. 15	2208	{ 504 505 }	{ 82 }	1679
Fuller, James T., Calvert, Tex. Pneumatic cotton-handling machine	604,037	May 17	1477	331	83	937
Fuller, James W. (See Snyder, William T., assignor.)						
Fuller, James W., Catasauqua, Pa. Car-wheel	597,540	Jan. 18	1870	433	82	398
Fuller, John E., New York, assignor to C. C. Dusenbury, Lake Mahopac, N. Y. Dynamo-electric machine	615,351	Dec. 6	241	57	85	1461
Fuller & Johnson Manufacturing Company. (See Starks, Nils O., assignor.)						
Fuller, Lawson M., New York, N. Y. Blank cartridge	604,824	May 31	2919	668	83	1250
Fuller, Levi K., assignor to Estey Organ Company, Brattleborough, Vt. Regulator for organs having electrical air-pumps	601,318	Mar. 29	3042	685	82	1878
Fuller, William H., <i>et al.</i> (See Cubbison, Frank E., assignor.)						
Fuller, William H., <i>et al.</i> (See Garnier, Thomas R., assignor.)						
Fullerton, George A., Boston, assignor to J. E. Maynadier, trustee, Taunton, Mass. Pin-bridge for string instruments	609,882	Aug. 30	3161	738	84	1330
Fulton, H. H. (See Abernethy, Harry M., assignor.)						
Fulton, H. H. (See Morrow, Alexander P., assignor.)						
Funck, Philipp. (See Geiger, Adolph, assignor)						
Funck, Philipp. (See Moseley and Funck.)						
Funk, Alexander W., assignor of one-half to W. E. Saunders, Cleveland, Ohio. Automatic brake and safety-guard for vehicles	607,030	July 12	713	{ 152 153 }	{ 84 }	159
Funk, Emra W., Canton, Minn. Music-turner	601,644	Apr. 5	33	7, 8	83	8
Funk, Mark M., assignor to J. W. Carson, Mercersburg, Pa. Ratchet-wrench	601,134	Mar. 22	2674	611	82	1781
Funk, Nelson E., New York, N. Y. Blower	599,778	Mar. 1	179	44	82	1249



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Fuoss, Frank P., <i>et al.</i> (See Wolfe, Thomas, assignor.)						
Furber, Frank O., and W. A. Mitchell, Saco, Me.; said Furber assignor to said Mitchell. Sanding device for street-cars	609,506	Aug. 23	2500	585	84	1188
Furbish, Zachry T., Portland, Me., assignor, by mesne assignments, to North Brothers Manufacturing Company, Philadelphia, Pa. Ratchet-tool	597,766	Jan. 25	2252	525	82	488
Furey, Cyrus R., assignor of one-half to J. H. Kornmann, Logansport, Ind. Alarm mail-box	611,573	Sept. 27	2639	609	84	2000
Furley, Joseph F., North Sydney, and E. Forsyth, Willoughby, New South Wales. Bicycle-support	605,477	June 14	774	178	83	1522
Furnas, Robert W., Indianapolis, Ind. Street-cleaner	599,231	Feb. 15	1966	466	82	1008
Furness, Frank, Philadelphia, Pa. Nosing-strip for stairways	606,532	June 28	2792	644	83	1943
Furness, Frank, assignor of one-half to G. F. Stephens, Philadelphia, Pa. Ornamental panel	613,625	Nov. 1	722	168	85	754
Furnival, Samuel B., Stoke-upon-Trent, England. Tray for clay-presses	612,327	Oct. 11	1305	315 316	85	261
Furnivall, Alfred W., and H. Martin, New York, N. Y. Extension-bed	611,115	Sept. 20	1757	402	84	1814
Fuss, Alfred L., Washington, D. C. Propeller for boats or vessels	599,293	Feb. 15	2077	492 493	82	1030
Fyfe, Daniel, Covington, Tenn. Differential gearing	605,416	June 7	692	154	83	1486
Fyfe, John C. (See Odquist and Fyfe.)						
G. A. Gray Company. (See Gray and Richter, assignors.)						
G. W. Jones Lumber Company. (See Stewart, David S., assignor.)						
Gaa, Jean, Basle, Switzerland. Compound for closing punctures in pneumatic tires	616,459	Dec. 27	2319		85	1919
Gabbett-Fairfax, Hugh W., assignor to "Mars" Automatic Fire-Arms Syndicate, Limited, London, England. Recoil-operated firearm	600,066	Mar. 1	803	184	82	1371
Gabel, Henry F., Pittsburg, Pa. Water-heater	600,123	Mar. 1	965	213 214	82	1407
Gabel, Henry F., Pittsburg, Pa. Gas-burner for water-heaters	604,209	May 17	1805	406	83	1001
Gabel, Henry F., Pittsburg, Pa. Water-heater valve	606,132	June 21	2033	465	83	1773
Gabel, John C., Jr. (See Owen, Gabel, and McKinney.)						
Gabler, Ferdinand, Topeka, Kans. Center-wheel car-brake	609,093	Aug. 16	1720	410	84	1020
Gabrielson, Charles, <i>et al.</i> (See Halin, John, assignor.)						
Gadbois, Eli, Chicago, assignor of one-half to F. Barron, Morgan Park, Ill. Track for door-hangers	613,262	Nov. 1	63	15	85	629
Gadbury, John R., Tama, Iowa. Adjustable flower-stand	613,985	Nov. 8	1340	305	85	894
Gadbury, John R., Tama, Iowa. Flower or other stand	613,986	Nov. 8	1341	305	85	894
Gadd, Charles J., Philadelphia, Pa. Bicycle	599,058	Feb. 15	1689	400 401	82	959
Gadd, Charles J., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Tenting-machine	606,780	July 5	280	58	84	55
Gaertner, Richard, Milwaukee, Wis. Running-gear for motor-cycles	610,177	Sept. 6	46	11	84	1450
Gaffney, Charles H., assignor to W. B. Lantz, Gloucester, Mass. Seine-pursing machine	604,312	May 17	1998	448	83	1038
Gaffney, Frank C. (See Rosander and Pearson, assignors.)						
Gage-Downs Company. (See Mayer, Murray C., assignor.)						
Gage, Neal M. (See Lowman and Gage.)						
Gager, R. E. (See Hansen, Hans C., assignor.)						
Gagnon, Peter. (See Ahearn, William F., assignor.)						
Gahn, Frank, Ransom, Ill. Corn-conveyer	613,762	Nov. 8	968	222	85	821
Gahn, Frank, Ransom, Ill. Combination elevator and wagon-dump	615,694	Dec. 13	879	203	85	1598
Gaines, Ambrose P., South Pittsburg, Tenn. Cooling device for furnace-walls	614,381	Nov. 15	2059	475	85	1052
Gaines, Charles A., assignor to C. Mendelson, New Orleans, La. Apparatus for carbonating liquids	602,938	Apr. 26	2349	536	83	491
Gaines, Eli P., Fairland, Ind. Ter. Wrench	598,504	Feb. 8	746	180	82	761
Gaines, Henry W., Polkville, Ky. Elevator and carrier	598,145	Feb. 1	122	28	82	626
Gaines, Joseph K., Chicago, Ill. Display-holder for shoestrings	616,657	Dec. 27	2701	627	85	1990
Gaines, Stephen W., assignor to Portable Refrigerator and Freezer Company, Philadelphia, Pa. Refrigerator shipping-box	599,172	Feb. 15	1879	445	82	991
Gairing, Alfred J., assignor to Steel Motor Company, Johnstown, Pa. Electric trolley device	612,410	Oct. 18	1449	349	85	303
Gair, Marie, New York, N. Y. Skirt-supporter	603,760	May 10	928	506	83	797
Gaisman, Henry J., New York, N. Y. Belt	603,024	Apr. 26	2485	564	83	516
Gaitzsch, Karl J., Knauthain, Germany. Reversible calk	608,665	Aug. 9	897	205	84	852
Galbraith, Stansell C. (See Williams and Galbraith.)						
Galbreath, Robert B. (See Hill, Alfred, assignor.)						
Galbrun, Gustave L., New York, N. Y. Propelling mechanism	602,440	Apr. 19	1475	336	83	310
Gale, Francis G., Waterville, Canada. Metallic bedstead	598,564	Feb. 8	848	202	82	781
Gale, Herbert N., Hartford, assignor to Bristol Bell Company, Bristol, Conn. Base-plate for bicycle-bells	614,805	Nov. 22	2825	650	85	1209
Gale, Horace B. (See O'Neill and Gale.)						
Gale, Horace B., New York, N. Y. Controlling device for elevators, &c	598,416	Feb. 1	606	149	82	718
Gale, Horace B., San Francisco, Cal. Elevator controlling mechanism	598,505	Feb. 8	746	180 181	82	761
Gale, Horace B., San Francisco, Cal., assignor to C. C. Worthington, Irvington, N. Y. Valve-movement for pumps	607,845	July 26	2443	519	84	526
Gale Manufacturing Company. (See Beall, William L., assignor.)						
Gale Manufacturing Company. (See Roby, George L., assignor.)						
Gale, Merritt F. (See Crowell and Gale.)						
Gale, Moses F., New York, N. Y. Retort-burner	614,458	Nov. 22	2205	507	85	1093
Galey, William, <i>et al.</i> (See Hope, James R., assignor.)						
Gallager, Henry, assignor of one-half to J. J. McDonough, Savannah, Ga. Clevis	601,560	Mar. 29	3435	780	82	1957
Gallagher, Darius F., New York, N. Y. Clothes-line brush	606,482	June 28	2691	620	83	1923
Gallagher, John C., assignor of two-thirds to D. W. Payne and M. C. Arnot, Elmira, N. Y. Acetylene-gas generator	597,900	Jan. 25	2484	580	82	532
Gallagher, Joseph D., Glen Ridge, N. J. Brake-shoe	616,568	Dec. 27	2521	583	85	1957
Gallagher, Joseph D., Glen Ridge, N. J. Brake-shoe	616,569	Dec. 27	2523	584	85	1957
Gallagher, Martin, Philadelphia, Pa. Hinge	596,698	Jan. 4	433	98	82	85
Gallagher, Martin, Philadelphia, Pa. Hinge	614,098	Nov. 15	1528	350	85	952
Gallagher, Richard D., Jr., Chicago, Ill. Refrigerator	602,599	Apr. 19	1740	395 396	83	359
Gallagher, Thomas G., Philadelphia, Pa. Steam-trap and boiler-feeder	607,740	July 19	2211	467 468	84	464
Gallagher, Thomas M., assignor to Shickle, Harrison & Howard Iron Company, St. Louis, Mo. Combined spring-seat, bolster-guide, and sand-board for railway-cars	598,417	Feb. 1	609	149	82	718
Gallagher, Thomas M., assignor to Shickle, Harrison & Howard Iron Company, St. Louis, Mo. Truck-frame	604,608	May 24	2546	581	83	1160
Gallagher, Thomas M., assignor to Shickle, Harrison & Howard Iron Company, St. Louis, Mo. Transom for car-trucks	604,610	May 24	2549	582	83	1161



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Gallagher, Thomas M., St. Louis, Mo., assignor to Shickle, Harrison & Howard Iron Com- pany. Car-bolster	604,609	May 24	2548	581 582	83	1161
Gallagher, Thomas M., St. Louis, Mo., assignor to Shickle, Harrison & Howard Iron Com- pany. Car-coupling	605,055	May 31	3309	760	83	1326
Gallamore, Rose, <i>et al.</i> (See Barnhill, Alva H., assignor.)						
Galland, Annie M., New York, N. Y. Embroidery-display package	613,366	Nov. 1	270	61	85	669
Galloway, Albert I., Morristown, N. J. Broom-support	610,351	Sept. 6	405	86	84	1518
Galloway, Albert I., assignor of one-half to D. S. Enslee, Morristown, N. J. Bicycle-sup- port	607,795	July 19	2310	489	84	482
Gallegos, José, Guatemala, Guatemala. Electrical foot-gear	603,135	Apr. 26	2685	609	83	555
Gallet, Edmond, assignor to La Société Roger et Gallet, Paris, France. Cap for bottles or similar receptacles	600,309	Mar. 8	1270	290	82	1481
Galley, Felix, Cleveland, Ohio, assignor of one-half to P. Vaughn, Nashville, Tenn. Elas- tic-tread horseshoe	610,324	Sept. 6	352	75	84	1508
Gallowsky, Hugo, Long Beach, Miss. Compound for rendering substances fireproof	610,964	Sept. 20	1474	336	84	1761
Gallowsky, Hugo, assignor, by mesne assignments, to Lithosite Manufacturing Com- pany, St. Louis, Mo. Manufacturing cement	605,637	June 14	1068		83	1576
Gallowsky, Hugo, assignor to Lithosite Manufacturing Company, St. Louis, Mo. Method of and apparatus for making electrical-insulation conduits	609,094	Aug. 16	1721	410	84	1020
Gallowsky, Hugo, assignor to Lithosite Manufacturing Company, St. Louis, Mo. Means for protecting piles from aqueous insects	612,839	Oct. 25	2246	537	85	473
Gallowsky, Hugo, assignor to Lithosite Manufacturing Company, St. Louis, Mo. Com- position flooring	615,352	Dec. 6	243	57	85	1461
Galloway, James, Jr., <i>et al.</i> (See Park, Louis C., assignor.)				657		
Galloway, William A., Xenia, Ohio. Combined harvesting-machine	601,247	Mar. 29	2885	658	82	1848
Galloway, William A., and A. Z. Smith, Xenia, Ohio; said Smith assignor to said Gallo- way. Corn-harvester	601,248	Mar. 29	2890	659	82	1849
Galloway, William J. (See Harmel and Galloway.)						
Gallup, Henry C., Elmore, Vt. Game device	612,965	Oct. 25	2448	583	85	513
Gallwey, Edwin J. P., Weymouth, England. Coin-freed apparatus for delivering stamps, &c	601,852	Apr. 5	455	92	83	85
Gally, Merritt, Brooklyn, N. Y. Machine for making swage-locked type-bars and prod- uct produced by such machine	606,656	July 5	34	8	84	9
Gally, Merritt, Brooklyn, N. Y. Swaged type-bar and apparatus for constructing same	606,657	July 5	35	8, 9	84	9
Gally, Merritt, New York, N. Y. Type-making machine	610,231	Sept. 6	170	38, 39	84	1475
Galpin, Frederic, Williamsfield, Ill. Rotary steam-engine	605,564	June 14	916	215	83	1550
Gamble, Cyrus T. (See Martin and Gamble.)						
Gamble, George A. (See Norlund and Clark, assignors.)						
Gamble, Joseph W., Philadelphia, Pa. Injector	602,537	Apr. 19	1637	373	83	340
Gamble, Joseph W., Philadelphia, Pa., assignor to Eynon-Evans Manufacturing Com- pany, of Pennsylvania. Injector	609,801	Aug. 30	3022	707 708	84	1302
Gamble, Leslie J., Moline, Ill. Door-fastener	610,624	Sept. 13	886	203	84	1628
Gamble, Warren, Beebe, Mich. Hay-rack	610,395	Sept. 6	488	106 107	84	1533
Gamble, William H. (See Allen and Gamble.) (Reissue.)						
Gamewell Auxiliary Fire Alarm Company. (See Cross, Albert H., assignor.)						
Gamewell Fire-Alarm Telegraph Company. (See Decrow, William E., assignor.)						
Gamewell Fire-Alarm Telegraph Company. (See Oehmen, Bartholomew, assignor.)						
Gammack, Alexander P. F., assignor of one-half to C. M. Jarvis, Berlin, Conn. Compo- sition for killing weeds	615,444	Dec. 6	427		85	1495
Gamwell, Charles. (See Gamwell, Harry and C.)						
Gamwell, Harry and C., Liverpool, England, assignors, by mesne assignments, to Adams & Westlake Company, of Illinois. Photographic camera	598,701	Feb. 8	1093	263	82	827
Gamwell, Harry and C., Liverpool, England, assignors, by mesne assignments, to Adams & Westlake Company, of Illinois. Photographic camera	598,728	Feb. 8	1137	274	82	835
Gander, John M., Toronto, Canada. Self-supporting fireproof covering for steel beams	598,702	Feb. 8	1095	263	82	827
Gano, Charles P., Bowling Green, Ohio. Pumping-jack	607,925	July 26	2597	551	84	556
Ganon, Henry F., Indianapolis, Ind., assignor of one-half to W. Tron. Vehicle-wheel guard	599,294	Feb. 15	2079	493	82	1030
Gannoe, Thomas A., assignor of one-half to E. E. Bryner, S. T. Borts, W. Foster, O. Peter- son, F. Morse, P. L. Billings, A. W. Williams, W. T. Bailey, and D. H. Dunbar, Jr., Brad- ford, Pa. Auger-handle	605,781	June 14	1331	305	83	1625
Ganoung, Robert S., Seneca Falls, N. Y. Table and drapery-holder	610,441	Sept. 6	562	124	84	1546
Gans, Albert. (See Brolich, Johann, assignor.)						
Gans, Paul F., Frankfort-on-the-Main, Germany. Lighting apparatus for explosive-gas mixtures	614,299	Nov. 15	1900	439	85	1021
Gans, Peter, Salem, Ohio. Bag-fastener	609,989	Aug. 30	3370	783	84	1371
Gans, Robert, New York, N. Y. Buttoner	615,482	Dec. 6	497	115	85	1508
Gansel, Firm of I. (See Dallmann, Erich, assignor.)						
Ganswindt, Hermann, Mariendorfer Weg, Schoeneberg, Germany. Bearing for rotary disks	610,232	Sept. 6	174	39	84	1475
Gants, George, Greenfield, Ohio. Dinner-pail	608,591	Aug. 9	756	174	84	825
Ganzel, Christ H., Sr., Boyd, Wis. Masonry chimney and smoke-flue	610,396	Sept. 6	489	107	84	1533
Gapsch, Richard, <i>et al.</i> (See Brengman, John, assignor.)						
Garabrant, Everett L., Mendham, N. J. Machine for filing and setting saws	600,717	Mar. 15	1992	453 454	82	1637
Garcia, Antonio C., Modesto, Cal. Automatic steering-head for bicycles	605,417	June 7	694	154	83	1486
Garcia, Joseph, <i>et al.</i> (See Barrody, John B., assignor.)						
Gardanier, George W., Nyack, assignor of three-fourths to D. G. Black, Lake Hill, N. Y. and T. J. Smith, Roselle, N. J. Safety-fuse for electric circuits	611,243	Sept. 27	1999	461	84	1880
Gardella, John, assignor of one-half to G. H. Matthews, Oroville, Cal. Fruit-picking shears	614,167	Nov. 15	1648	379	85	974
Gardenier, James. (See Van Vliet and Gardenier.)						
Gardiner, Fred A., Dedham, Mass. Boiler	603,877	May 10	1160	261 262	83	842
Gardiner, Joseph B., Boston, assignor of one-half to A. H. Sawyer, Newburyport, Mass. Seat for couches	605,095	June 7	50	16	83	1362
Gardner, Adelia A., Providence, R. I. Drapery-support	612,199	Oct. 11	1069	256	85	219
Gardner, Augustus H., Brooklyn, assignor to Twisted Wire Box Strap Company, New York, N. Y. Woven-wire fabric	599,173	Feb. 15	1880	445	82	992
Gardner, Baulda H., Shreveport, La. Barrel-hoop	612,030	Oct. 11	783	193	85	164
Gardner, Daniel, Newburg, N. Y. Sash-fastener	611,961	Oct. 4	632	154	85	124
Gardner, Douglas, and E. B. Hartley, Birmingham, England. Handle-bar for cycles	601,792	Apr. 5	327	66	83	62
Gardner, Edwin P., assignor of one-half to T. Kelly, Norwich, Conn. Acetylene-gas gen- erator	615,979	Dec. 13	1377	322	85	1694
Gardner, Fulton, Chicago, Ill. Electric rotary cutter	613,367	Nov. 1	270	61	85	669
Gardner, George C., Chicago, Ill. Joint for rails for door-hangers	596,493	Jan. 4	51	11	82	13
Gardner, George C., Chicago, Ill. Door-hanger	599,498	Feb. 22	2503	590	82	1134
Gardner, George L., assignor of one-half to F. D. Bittinger, Dayton, Ohio. Muffler for engines	606,280	June 28	2321	537	83	1850



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Gardner, Harry F., and F. J. Benscoter, Macksville, Kans. Lock-nut	603,683	May 10	804	177	83	774
Gardner, Jacob N., assignor to I. Collat, M. S. Byck, Savannah, D. A. Byck, and L. Collat, Chatham county, Ga. Nut-lock	607,741	July 19	2213	468	84	465
Gardner, Richard B. G., Philadelphia, Pa. Appliance for enabling the deaf to hear	608,255	Aug. 2	149	37	84	684
Gardner, William N. O. (See Hawkins and Gardner.)						
Gareau, Roch R., Detroit, Mich. Illuminated clock-dial for indicators, &c	605,312	June 7	486	109	83	1444
Garey, Caleb E., and E. T. Landon, New York, N. Y. Street-railway car	601,000	Mar. 22	2463	561 562	82	1740
Garford, Arthur L., Elyria, Ohio. Bicycle saddle-post	596,699	Jan. 4	434	98	82	85
Garford, Arthur L., Elyria, Ohio. Bicycle saddle-clamp	596,869	Jan. 4	725	170	82	141
Garford, Arthur L., Elyria, Ohio. Bicycle-saddle	612,769	Oct. 18	2092	496	85	424
Garford Manufacturing Company. (See Smith, James C., assignor.)						
Garforth, William E., Altofts, England. Coal-cutting machine	613,987	Nov. 8	1342	305	85	894
Garis, David V., assignor of one-half to C. L. Schwarz, Philadelphia, Pa. Hat-fastener	606,006	June 21	1790	411	83	1728
Garland, Charles, assignor of one-half to J. M. Hammonds, Grayson, Cal. Folding step-ladder	600,281	Mar. 8	1232	280	82	1474
Garland, Charles L., Sydney, J. and S. E. Murray, Cowra Creek, New South Wales. Centrifugal amalgamator and separator	604,978	May 31	3176	732	83	1300
Garland, George A., Medford, Mass. Chair	609,389	Aug. 16	2279	539	84	1128
Garland, George M., Des Plaines, Ill. Gutter for greenhouses	616,781	Dec. 27	2919	679	85	2034
Garland, John W. (See Garland, Robert and J. W.)						
Garland, Robert and J. W., Pittsburg, Pa. Treating metal pipes	611,900	Oct. 4	533		85	106
Garlick, Jew. (See Dowell, Albert L., assignor.)						
Garlough, Alfred L., St. Paul, Minn. Lock	611,244	Sept. 27	2001	461	84	1880
Garman, James A. (See Cramer and Garman.)						
Garneau, Joseph A., St. Rochs, Canada. Corset	603,843	May 10	1095	245	83	829
Garner, John S., Washington, D. C. Lock for bicycles	601,464	Mar. 29	3282	742	82	1924
Garner, Joseph H., Tamaqua, Pa. Automatic railway-switch	598,626	Feb. 8	961	232	82	802
Garner, Samuel C. (See Shelhamer and Garner.)						
Garnett, Carroll, Front Royal, Va. Bolt-fastening	604,896	May 31	3043	698	83	1274
Garnier, Thomas R., assignor of one-half to W. H. Fuller, Los Angeles, G. W. Beck and A. H. Conger, Pasadena, Cal. Antifriction-bearing	611,032	Sept. 20	1595	366	84	1784
Garr, Horace S., assignor of one-half to R. J. Tarbell, Los Angeles, Cal. Burning and heating appliance	599,499	Feb. 22	2504	590	82	1135
Garrels, William L., St. Louis, Mo. Cable-hoist	598,178	Feb. 1	187	43	82	638
Garretson, Oliver S., Buffalo, N. Y. Hot-blast apparatus	596,494	Jan. 4	51	12	82	13
Garretson, Oliver S., Buffalo, N. Y. Method of and apparatus for smelting complex ores	596,747	Jan. 4	518	119	82	101
Garretson, Oliver S., Buffalo, N. Y. Method of and apparatus for matte or pyritic smelting	596,991	Jan. 11	935	221 222	82	199
Garretson, Oliver S., Buffalo, N. Y. Method of and apparatus for bessemerizing matte	596,992	Jan. 11	938	222	82	199
Garrett Engine, Boiler and Machine Works. (See White, Warren E., assignor.)						
Garrett, George W., Arkadelphia, Ark. Ventilator and dust-excluder for railway passenger-cars	601,054	Mar. 22	2552	582	82	1757
Garrett, James A., Troy, Tex. Cotton-seed separator	606,533	June 28	2793	645	83	1943
Garrett, James V., Crawfordville, Ga. Combination-scaffold	604,979	May 31	3178	732	83	1300
Garrett, Wilbur F., Centerville, Iowa. Pencil-sharpener	597,643	Jan. 18	2039	476	82	432
Garrigus, Walter A., and R. Golling, Lenoir City, Tenn. Nut-lock	604,114	May 17	1633	366	83	967
Garrison, Thomas S., Indianapolis, Ind. Burial-casket	601,037	Mar. 22	2522	573	82	1751
Garrod, James B., London, England. Appliance for making trimmings	613,137	Oct. 25	2718	642	85	567
Garst, Dudley. (See Garst, Stephen H. and D.)						
Garst, Stephen H. and D., Greenville, Ohio. Blower for straw-stackers	598,885	Feb. 8	1381	332	82	883
Garst, Stephen H. and D., assignors to American Harrow Company, Detroit, Mich. Harrow	616,530	Dec. 27	2462	569	85	1945
Garthland Foundry Company. (See Short, Robert L., assignor.)						
Gartley, Alonzo, assignor to United Gas Improvement Company, Philadelphia, Pa. Photometer	611,623	Oct. 4	51	12, 13	85	12
Gartner, Adam, Lincoln, Nebr. Garment	616,460	Dec. 27	2320	541	85	1919
Gartner, Alfred. (See Kinne and Gartner.)						
Gartner, Alfred, assignor to Inventor's Novelty Manufacturing Company, Paterson, N. J. Exhibiting-cabinet	605,222	June 7	308	71	83	1410
Gartner, Charles J., Shelbyville, Ind. Clamp for carvings	609,539	Aug. 23	2555	598	84	1198
Garrett, Frank, Shipston-on-Stour, England. Weapon of defense	608,666	Aug. 9	898	205	84	852
Gartrell, John H., Penzance, England. Apparatus for swaging dental plates	605,223	June 7	310	71	83	1410
Gartshore, Alexander, Pittsburg, Pa. Non-refillable bottle	597,280	Jan. 11	1414	332	82	291
Garver, Martin V., Bryan, Ohio. Wheelbarrow	602,504	Apr. 19	1574	360	83	330
Gasche, Ferd G., Chicago, Ill. Vertical water-tube boiler	616,531	Dec. 27	2463	569 570	85	1945
Gaskill, Henry S., Battle Creek, Mich. Windmill-governor	609,340	Aug. 16	2196	519	84	1112
Gaskill, Joshua, et al. (See Moon, Frank D., assignor.)						
Gaskins, Thomas, Arcadia, Fla. Sprinkling apparatus	597,576	Jan. 18	1930	449	82	410
Gasper, Frank W., Wayne, N. Y. Fence	607,431	July 19	1497	318	84	322
Gass, William G., and J. Tonge, Bolton, England. Portable pump	604,579	May 24	2502	569	83	1151
Gassaway, William H., Victor, Colo. Display-case	612,328	Oct. 11	1307	316	85	261
Gassett, Oscar, assignor to A. Eastman, Boston, Mass. Oil-gas-generating burner	601,094	Mar. 22	2607	595	82	1768
Gassner, Henry. (See Marx and Gassner.)						
Gast, William T. (See Harris, William D., assignor.)						
Gately, Patrick, New York, N. Y. Elevator-regulator	597,406	Jan. 18	1639	381	82	352
Gates, Albert J. and P. W., assignors to Gates Iron Works, Chicago, Ill. Rock or ore breaker	616,658	Dec. 27	2702	627	85	1990
Gates, Caleb C., assignor of one-half to J. S. Hopkins and W. W. McDonald, Forsyth, Mont. Railway-tie distributor	608,962	Aug. 9	1453	344	84	954
Gates, Horatio. (See Woodland, Frank O., assignor.)						
Gates Iron Works. (See Capen, Thomas W., assignor.)						
Gates Iron Works. (See Cole, David, assignor.)						
Gates Iron Works. (See Gates, Albert J. and P. W., assignors.)						
Gates Iron Works. (See Gates, Philetus W., assignor.)						
Gates Iron Works. (See Gates and Capen, assignors.)						
Gates Iron Works. (See Hanna, Elmer E., assignor.)						
Gates, Jacob F., Pittsburg, Pa. Electric transformer	597,180	Jan. 11	1261	295 296	82	262
Gates, Jacob F., Pittsburg, Pa. Garment-fastener	599,699	Mar. 1	43	10	82	1224
Gates, Olu, Estherville, Iowa. Cattle tie	606,922	July 5	511	112	84	101
Gates, Philetus W. (See Gates, Albert J. and P. W.)						
Gates, Philetus W., Chicago, Ill. Machine-shop plant	597,828	Jan. 25	2368	553	82	510
Gates, Philetus W., Chicago, Ill., assignor to Gates Iron Works, of Illinois. Automatic feeder for stamp-mills	609,425	Aug. 23	2346	553	84	1160



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Gates, Philetus W., and T. W. Capen, assignors to Gates Iron Works, Chicago, Ill. Rock or ore breaker	616,659	Dec. 27	2703	627 628	85	1990
Gates, Verner R., assignor of one-half to V. C. Wall, Sherman, Mich. Rotary engine	609,802	Aug. 30	3025	708	84	1392
Gates, William, Mulberry, Mo. Harvester-tongue support	599,126	Feb. 15	1799	428	82	979
Gatewood, William F., assignor of one-half to F. M. Johnson, Decatur, Ill. Churn	611,470	Sept. 27	2448	564	84	1963
Gatling, Richard J., New York, N. Y. Cotton-thinner	603,271	May 3	50	13	83	610
Gatward, Frank, Halifax, Canada. Game or toy device	614,542	Nov. 22	2344	537	85	1118
Gaul, Ray, Brooklyn, N. Y. Furnace	603,272	May 3	51	13	83	610
Gauntner, Rudolph, assignor of two-fifths to G. A. Myers and M. H. Burget, Ashville, Pa. Horse-detacher	610,484	Sept. 6	641	143	84	1561
Gaus, Henry. (See Barnard, Charles M., assignor.)						
Gauthier, Ernest V., Westborough, Mass. Fastening device for bicycle-cranks	608,448	Aug. 2	497	112	84	754
Gauthier, Ernest V., Westborough, Mass. Screw-machine chuck	608,449	Aug. 2	498	113	84	755
Gay, Charles F., Spokane, Wash. Rifle	615,840	Dec. 13	1130	264	85	1646
Gay, John B. F., assignor to Fitchburg Steel Ball Company, Fitchburg, Mass. Die for and method of swaging metallic balls	611,574	Sept. 27	2640	609	84	2000
Gay, Matthew C., Arcadia, assignor of one-third to W. P. Hatchett, Miami, Fla. Wrench	616,414	Dec. 20	2226	519	85	1879
Gaylor, Leonard B., Erie, Pa. Bicycle	614,944	Nov. 29	3113	714	85	1282
Gaylord, John F., Portsmouth, Va. Switch-stand	614,459	Nov. 22	2207	507	85	1093
Gaylord, John F., Portsmouth, Va., assignor, by mesne assignments, of one-fourth to M. L. Straus, Baltimore, Md. Automatic-lever switch	605,313	June 7	487	109	83	1444
Gaynor, Thomas F., Brooklyn, and W. A. Washburne, New York, assignors of one-eighth to J. F. Schirott, Brooklyn, N. Y. Time, speed, and distance indicating mechanism for cycles	598,598	Feb. 8	906	218	82	793
Gays, Henry W., St. Louis, Mo. Carline	607,846	July 26	2446	519 520	84	527
Gayton, Samuel R., Philadelphia, Pa. Pneumatic-despatch tube	610,528	Sept. 13	724	164	84	1594
Gear, Alonzo S., New York, N. Y. Apparatus for supplying water for extinguishing fires	598,703	Feb. 8	1096	263	82	827
Gearhart, Lewis, Lawrence, assignor to D. F. Wisotzkey, Clearfield, W. C. Davis, Houtzdale, C. L. Zimmerman and W. L. Sheets, McKeesport, Pa. Circular-knitting machine	611,751	Oct. 4	278	66	85	57
Gearhart, Lewis, and G. N. Markle, Clearfield, Pa. Office-indicator	598,673	Feb. 8	1043	251	82	817
Gearing, Charles M., Brownwood, Tex., assignor of two-thirds to C. F. and C. O. Hadly, Pittsburg, Pa. Gas apparatus	615,385	Dec. 6	318	75	85	1475
Gearing, Charles M., Brownwood, Tex., assignor of two-thirds to C. F. and C. O. Hadly, Pittsburg, Pa. Hydrocarbon-burning furnace	615,445	Dec. 6	427	102	85	1495
Gebhardt, William, assignor of one-half to A. Kronkosky, San Antonio, Tex. Food compound and making same	606,624	June 28	2949		83	1973
Geddes, Jane, Rutland, Vt. Convertible couch	606,133	June 21	2034	466	83	1774
Geddis, John T., Iberia, Ohio. Hog-trap	616,309	Dec. 20	2033	473	85	1843
Gedeon, Joseph. (See Kundtz and Gedeon.)						
Gedge, George E., Springfield, Ohio. Harrow	602,538	Apr. 19	1639	373	83	341
Gee, Horace L., assignor to Diamond Truck and Car Gear Company, Kingston, N. Y. Truck for motor-cars, &c	605,952	June 21	1683	386	83	1710
Gee, James E. and W. J., Middlesbrough, England. Scrubbing-machine	610,397	Sept. 6	491	107	84	1533
Gee, William J. (See Gee, James E. and W. J.)						
Gégauff, Charles H. (See Wenning and Gégauff.)						
Geidt, Henry, Baltimore, Md. Bicycle-support	602,318	Apr. 12	1266	280	83	255
Geier, Carl, Oberlangenbielau, Germany. Lubricator	597,577	Jan. 18	1932	450	82	411
Geiger, Adolph, assignor of one-half to P. Funck, Rochester, N. Y. Closure for vulcanizers	600,067	Mar. 1	807	185	82	1372
Geiger, John P., Orwigsburg, Pa. Throttle	603,684	May 10	805	177	83	774
Geigy & Co., John R. (See Ris, Christopher, assignor.)						
Geigy & Co., John R. (See Ris and Simon, assignors.)						
Geiman, Israel, Melrose, Md. Lock	614,945	Nov. 29	3115	714	85	1282
Geise, Henry, Philadelphia, Pa. Nut-lock	601,249	Mar. 29	2893	659	82	1850
Geisel, Adam, St. Louis, Mo. Concrete bridge	597,281	Jan. 11	1415	332	82	291
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company, of New York. Trolley-ear	611,752	Oct. 4	279	66	85	57
Geiser Manufacturing Company. (See Clymans, Ezra G., assignor.)						
Geiser Manufacturing Company. (See Flautt, Melvin A., assignor.)						
Geiser Manufacturing Company. (See Price, Abraham E., assignor.)						
Gelabert, William P., Sweet Springs, Mo. Sash holder and lock	607,926	July 26	2599	551	84	557
Gelabert, William P., and T. G. Nelson, Sweet Springs, Mo. Buckle and loop	616,609	Dec. 27	2594	602	85	1969
Gelatt, James M. (See Chapman and Gelatt.)						
Gellenbeck, Edward J., assignor of one-half to H. A. Zettle and M. A. Deutsch, Shakopee, Minn. Acetylene-gas generator	613,879	Nov. 8	1171	268	85	860
Gem City Stove Manufacturing Company. (See Wewers, William, assignor.)						
Gem Fibre Package Company. (See Thomson, William B., assignor.)						
Gem Flexible Insole Company. (See Hadaway, John B., assignor.)						
Gempeler, Fritz, Washington, Wis. Fence-wire reel cart	613,138	Oct. 25	2719	642 643	85	568
Gender, William, Milwaukee, Wis. Wringer attachment for tubs	615,841	Dec. 13	1131	264	85	1646
General American Reduction Company. (See Rissmuller, Ludwig, assignor.)						
General Electric Company. (See Anderson and Thomson, assignors.)						
General Electric Company. (See Bradley, Charles S., assignor.)						
General Electric Company. (See Case, Frank E., assignor.)						
General Electric Company. (See Geisenhöner, Henry, assignor.)						
General Electric Company. (See Green, Charles M., assignor.)						
General Electric Company. (See Grindrod, John R., assignor.)						
General Electric Company. (See Harthan, Charles E., assignor.)						
General Electric Company. (See Haskins, Caryl D., assignor.)						
General Electric Company. (See Hewlett, Edward M., assignor.)						
General Electric Company. (See Kubierschky, Martin T. A., assignor.)						
General Electric Company. (See Libby and Potter, assignors.)						
General Electric Company. (See Linn, John B., assignor.)						
General Electric Company. (See Potter, William B., assignor.)						
General Electric Company. (See Rice, Edwin W., Jr., assignor.)						
General Electric Company. (See Stanley, William, assignor.)						
General Electric Company. (See Steinmetz, Charles P., assignor.)						
General Electric Company. (See Stone and Doane, assignors.)						
General Electric Company. (See Thomson, Elihu, assignor.)						
General Electric Company. (See Willard, Ben, assignor.)						
General Electric Company. (See Wirt, Herbert C., assignor.)						
General Fire Extinguisher Company. (See Grinnell, Frederick, assignor.)						
General Incandescent Arc Light Company. (See Bergmann, Sigmund, assignor.)						
Genese, David, Baltimore, Md. Capsule-machine	600,863	Mar. 22	2235	509 510	82	1698
Genest, Ludger, Hull, Canada. Hydrant and stand-pipe	604,611	May 24	2550	582	83	1161



## Alphabetical list of patentees—Continued.

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Geneva Cycle Company. (See Castle, William H., assignor.)						
Geneva Optical Company. (See Brayton, James T., assignor.)						
Geneva Optical Company. (See Gray, Silas W., assignor.)						
Gennert, Emil F., New York, N. Y. Candle-lamp for photographic dark rooms .....	603,427	May 3	319	72	83	661
Genoud, Eugene X., Newark, N. J. Safety-stop for elevators .....	599,999	Mar. 1	586	135	82	1324
Genoud, Eugene X., Jersey City, N. J. Cash-register .....	608,116	July 26	2928	627	84	623
Geo. F. Blake Manufacturing Company. (See Hall, Albert F., assignor.)						
Geo. F. Blake Manufacturing Company. (See Laval, George de, assignor.)						
George A. Ohl & Company. (See Ohl, George A., assignor.)						
George B. Meadows Toronto Wire, Iron and Brass Works' Company. (See Meadows, George B., assignor.)						
George, Benjamin F., assignor of one-half to A. Shaff, Covington, Ind. Harness-buckle .....	598,082	Feb. 1	20	6	82	607
George, Elias, Cherry Ridge, La. Wagon or carriage step .....	598,506	Feb. 8	750	181	82	762
George, Ferdinand, Brussels, Belgium. Soldering of aluminium .....	597,971	Jan. 25	2607		82	556
George, Frank L., Salt Lake City, Utah. Means for tuning musical instruments .....	613,900	Nov. 8	1202	275	85	866
George, Frank L., Salt Lake City, Utah. Furniture-caster .....	615,155	Nov. 29	3503	804	85	1354
George, Harry, T. D. Turnbull, and A. H. Coyle, London, England. Pianoforte-action .....	598,367	Feb. 1	513	124	82	699
George Washington Lighting Company. (See Washington, George, assignor.)						
Gerandal, Charles, Mustapha, France. Printing of music and apparatus for exposing same to readers .....	607,789	July 19	2301	485	84	481
Gérard, Jean M. A., assignor to La Société l'Industrielle, Paris, France. Rotary motor .....	600,671	Mar. 15	1915	435 436	82	1623
Gérard, Jean M. A., assignor to La Société Anonyme l'Industrielle, Paris, France. Steam-generator .....	616,532	Dec. 27	2465	570	85	1946
Gérard, Louis L. H., assignor to La Société des Appareils a Changement de Vitesse, Paris, France. Variable-speed gearing .....	610,178	Sept. 6	48	11	84	1451
Gerber, Cornelius, <i>et al.</i> (See Durham and Devine, assignors.)						
Gerber, Cornelius, <i>et al.</i> (See Reed, Roger E., assignor.)						
Gerber, D. Milton, <i>et al.</i> (See Durham and Devine, assignors.)						
Gerber, D. Milton, <i>et al.</i> (See Reed, Roger E., assignor.)						
Gerber, George H. (See Mengel and Binkley, assignors.)						
Gerber, George H. (See Mengel, Binkley, and Gerber.)						
Gerber, George H., <i>et al.</i> (See Maurer, James H., assignor.)						
Gerber, Samuel N. (See Swisher, Charles M., assignor.)						
Gere, George H., Grand Rapids, Mich. Combustible-vapor engine .....	598,986	Feb. 15	1571	373	82	935
Gere, Theodore D. (See Sauerbrey, Christian, assignor.)						
Gerlach, Emil, assignor to Only Perfect Non-Refillable Bottle Company, San Francisco, Cal. Device for preventing refilling of bottles .....	600,492	Mar. 8	1601	366	82	1545
Germer, Edward G., Erie, Pa. Heating-stove .....	611,624	Oct. 4	53	14	85	13
Gerow, Gideon, North Temescal, Cal. Sidehill-plow .....	616,533	Dec. 27	2467	570	85	1946
Gerow, Wilbur E., Newburg, N. Y. Toe-clip .....	614,856	Nov. 29	2934	673	85	1244
Gerry, Elbridge, Danbury, Conn. Game-board .....	614,543	Nov. 22	2345	538	85	1119
Gerry, James H. (See Schmidt, Gerry, and Barstow.)						
Gerry, James H., Brooklyn, N. Y., assignor, by mesne assignments, to I. P. Lampson, Cleveland, Ohio. Time-recorder .....	602,286	Apr. 12	1215	267 268	83	244
Gersant, Jules, Deal, and A. G. Buttifant, London, England. Means for hermetically sealing metal boxes, &c .....	605,604	June 14	1000	231	83	1563
Gersant, Jules, Deal, and A. G. Buttifant, London, England. Can-side-seam-fusing machine .....	605,605	June 14	1001	231	83	1563
Gerstendorfer, Albert and M., New York, N. Y. Containing vessel or package .....	611,008	Sept. 20	1556	353	84	1776
Gerstendorfer, Max. (See Gerstendorfer, Albert and M.)						
Gesellschaft der L. von Roll'schen Eisenwerke in Solothurn. (See Strub, Emil, assignor.)						
Gesner, George W., New York, assignor to H. C. Gesner, Brooklyn, N. Y. Process of and apparatus for alloying iron and hydrogen .....	604,580	May 24	2503	569	83	1151
Gesner, Harleston C. (See Gesner, George W., assignor.)						
Gessner, Otto, <i>et al.</i> (See Bonus, Peter, assignor.)						
Gesswein, Gustav J., Cranston, R. I., assignor to Mosler Safe Company, New York, N. Y. Safe-lock .....	597,407	Jan. 18	1640	381 382	82	352
Gesswein, Gustav J., Cranston, R. I., assignor to Mosler Safe Company, New York, N. Y. Safe .....	600,345	Mar. 8	1328	304	82	1493
Getchell, Marshall P. (See Alvord, Clarence E., assignor.)						
Getz, Henry F. (See Cross, Frank W., assignor.)						
Gharky, William D. (See Payne and Gharky.)						
Gharky, William D., assignor to G. F. Payne, Philadelphia, Pa. Telephonic microphone .....	614,946	Nov. 29	3117	715	85	1283
Ghiggeri, Felice. (See Rossi and Ghiggeri.)						
Giant See-Saw Company. (See Rogers and Thompson, assignors.)						
Gibb, George. (See Thomson and Gibb.)						
Gibbard, Isaac, <i>et al.</i> (See Schwarzschild, Solomon, assignor.)						
Gibbs, Edward F., Birmingham, Ala. Lathe-chuck .....	609,019	Aug. 16	1585	377	84	994
Gibbs Electric Company. (See Gibbs and Stone, assignors.)						
Gibbs, George, Milwaukee, Wis., and I. Stone, Chicago, Ill., assignors to Gibbs Electric Company, Milwaukee, Wis. Automatic stop mechanism for printing-presses .....	605,478	June 14	776	178	83	1522
Gibbs, George, W. S. Johnson, and H. Winkenwerder, Milwaukee, Wis. Controlling mechanism for electric motors .....	605,953	June 21	1689	387	83	1711
Gibbs, James D., Chicago, Ill. Electric-railway system .....	599,604	Feb. 22	2702	632	82	1172
Gibbs, James E., assignor of one-half to W. A. Byerly, Bridgewater, Va. Churn .....	597,060	Jan. 11	1057	248	82	222
Gibbs, James E., assignor of one-half to J. N. Wilson, W. R. Myers, and S. W. Shaver, Bridgewater, Va. Automatic gate .....	614,382	Nov. 15	2060	475	85	1052
Gibbs, James E. A. (See Willcox, Gibbs, and Borton.)						
Gibbs, Lewis, Canton, Ohio. Embroidery-ring .....	599,127	Feb. 15	1800	429	82	979
Gibbs, Lucius T., New York, N. Y. Compressed-air engine .....	604,745	May 31	2798	640	83	1227
Giberson, Mason B., Marion, Ind., assignor to F. A. Fox, New York, N. Y. Car-coupling .....	597,462	Jan. 18	1751	405	82	374
Gibney, John, <i>et al.</i> (See Towers, Edmund, assignor.)						
Gibney, William E., assignor to Goodell Company, Antrim, N. H. Powder-blower .....	599,038	Feb. 15	1662	393	82	954
Gibson, Edward L., Brooklyn, N. Y., assignor of one-half to A. A. Waterman, Arlington, Mass. Pocket cash-register .....	599,174	Feb. 15	1881	445	82	992
Gibson, Edwin, London, England. Appliance for use in drying bricks, &c .....	615,156	Nov. 29	3504	805	85	1355
Gibson, Frank W. (See Burs, George, assignor.)						
Gibson, Godfrey M., Chulmleigh, England. Machine for punching telegraphic paper .....	606,658	July 5	38	9	84	9
Gibson, Godfrey M., Chulmleigh, England. Apparatus for printing telegraphic messages .....	611,448	Sept. 27	2403	552	84	1954
Gibson, Harrison, Ngaire, New Zealand. Branding composition .....	614,544	Nov. 22	2347		85	1119
Gibson, Joseph G., Waterloo, England. Apparatus for seeding fruit .....	615,615	Dec. 6	734	169	85	1556
Gibson, Joseph H., Egremont, England. Gear-cutting machine .....	606,837	July 5	381	81	84	76
Gibson, Orville H., Kalamazoo, Mich. Mandolin .....	598,245	Feb. 1	304	70	82	660



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Gibson, Robert A., Buffalo, N. Y. Machine for bending hoops for rims, &c .....	597,463	Jan. 18	1753	405	82	374
Gibson, Robert L., <i>et al.</i> (See Little, Alexander F., assignor.) .....						
Gibson, Robert L., Philadelphia, Pa. Valve for pneumatic tires .....	616,610	Dec. 27	2595	602	85	1969
Giddings, Charles M., Rockford, Ill. Engine-governor .....	603,829	May 10	1072	240	83	824
Giddings, Howard, Chicago, Ill. Pendent cigar-lighter .....	605,818	June 14	1400	321	83	1638
Giesen, John. (See Janin, John V., assignor.) .....						
Giesey, James H., Highland City, Ohio. Hinge .....	607,432	July 19	1499	318 319	84	323
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Am- moniacal gas-compressor .....	602,802	Apr. 19	2103	474 475	83	428
Gifford, Arthur, assignor to Gifford Brothers, Hudson, N. Y. Ice-handling machinery ..	604,007	May 10	1424	318 319	83	897
Gifford Brothers. (See Gifford, Arthur, assignor.) .....						
Gifford, Charles H., Philadelphia, Pa. Steam-engine .....	598,627	Feb. 8	965	232 233	82	803
Gifford, Cyrus P., assignor of one-half to E. J. and A. K. Riblet, Erie, Pa. Bicycle-tire- puncture plugger .....	616,660	Dec. 27	2705	629	85	1991
Gifford, John, Watertown, N. Y. Snow-shovel .....	606,534	June 28	2795	645	83	1943
Gifford, Leander W. (See Dupaw, Josiah, assignor.) .....						
Gigney, Edmund H., London, England. Transposing mechanism for pianofortes .....	604,144	May 17	1681	378	83	976
Gigray, Frank. (See Nicholls, Moses, assignor.) .....						
Gilbert, Alice, <i>et al.</i> (See Cary, Edward, assignor.) .....						
Gilbert, Augustine N., Berlin, N. H. Rotary engine .....	604,038	May 17	1479	332	83	938
Gilbert & Barker Manufacturing Company. (See Barker, John F., assignor.) .....						
Gilbert, Benjamin F., and G. G. James, Exeter, Mo. Budding-tool .....	613,031	Oct. 25	2546	605	85	533
Gilbert-Cooper, William. (See Rose and Gilbert-Cooper.) .....						
Gilbert, Daniel C. (See Wyssinger, Leonard, assignor.) .....						
Gilbert, Edmund D., assignor to S. S. White Dental Manufacturing Company, Philadel- phia, Pa. Vulcanizer .....	614,246	Nov. 15	1813	418 419	85	1004
Gilbert, Frederick A., Brookline, and E. O. Lundin, Beachmont, Mass. Electric-arc lamp ..	603,630	May 10	715	160	83	756
Gilbert, Joel M., Clinton, Conn. Bicycle .....	598,083	Feb. 1	21	6	82	607
Gilbert, Joel M., Clinton, Conn. Adjustable back-support for seats of bicycles, &c .....	601,250	Mar. 29	2893	660	82	1850
Gilbert, John C., assignor to E. L. Parker, Worcester, Mass. Spinning-ring .....	598,200	Feb. 1	232	52	82	646
Gilbert, John W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental-engine handpiece .....	601,395	Mar. 29	3165	715	82	1901
Gilbert, John W., and H. H. Parker, Creek, Tex. Gate .....	602,984	Apr. 26	2421	551	83	504
Gilbert, Melvin E., San Francisco, assignor of one-half to F. P. Wickersham, Fresno, Cal. Rotary engine .....	605,460	June 7	750	171	83	1497
Gilbert, S. Eldred, <i>et al.</i> (See Werner, Ernest E., assignor.) .....						
Gilbert, Thomas S., New Haven, Conn. Corset .....	611,116	Sept. 20	1760	403	84	1815
Gilbert, William, Albany, Mo. Game apparatus .....	607,031	July 12	716	153	84	160
Gilbert, William E., New York, N. Y. Revolving chain-cover and gear-case .....	612,564	Oct. 18	1715	407	85	353
Gilbert, William R., Binnsville, Miss. Adding-machine .....	614,383	Nov. 15	2062	476	85	1053
Gilbert, Winfield C., Union Bridge, Md. Anchor for tombstones .....	610,529	Sept. 13	725	164	84	1595
Gilbertson, Gilbert G., West Mitchell, Iowa. Pulverizing attachment for cultivators .....	604,313	May 17	2000	448	83	1039
Gilbertson, John, Hawley, Minn. Ratchet-wrench .....	598,609	Feb. 8	925	222	82	797
Gilbride, John J., Pittston, Pa. Funeral-car .....	613,507	Nov. 1	533	120	85	717
Gilchriest, Robert, Louisville, Ky. Regulator for gas-burners .....	611,471	Sept. 27	2450	564	84	1964
Gilcrest, Jacob K., assignor to Des Moines Incubator Company, Des Moines, Iowa. Heat- regulator .....	599,959	Mar. 1	527	120	82	1313
Giles, John H. (See Russell, John H., assignor.) .....						
Gillfillan, Essington N., assignor of one-half to H. A. Wheeler, Chicago, Ill. Sash-fastener ..	601,750	Apr. 5	247	49	83	47
Gillfillan, James, <i>et al.</i> (See Russell, William, assignor.) .....						
Gilliland, John S., Decatur, Tex. Wire-fence tightener .....	596,748	Jan. 4	521	119	82	101
Gilkerson, Curtis H., and D. Glasby, Minneapolis, Minn. Automatic measuring-tank .....	609,096	Aug. 16	1724	410	84	1021
Gilkey, Joseph A., Springfield, Oreg. Wagon-brake .....	602,319	Apr. 12	1267	280	83	255
Gill, Arthur B. (See Preston and Gill.) .....						
Gill, Edwin R., Englewood, N. J., assignor to Invention Developing Company, of New Jersey. System of control of electric motors .....	609,274	Aug. 16	2078	494	84	1089
Gill, James L. W., Montreal, Canada. Hysteresis-meter .....	615,695	Dec. 13	881	203 204	85	1598
Gill, James T., Herschel, Ky. Bail attachment for stone jars .....	611,033	Sept. 20	1597	366	84	1784
Gill, John, assignor of one-half to H. G. Peckham, Jersey City, N. J. Hydraulic engine ..	606,337	June 28	2433	563 564	83	1872
Gill, John A. (See Phelps, Ira M., assignor.) .....						
Gill, Richard M., D'Arbonne, La. Automatic fire-kindler .....	615,216	Nov. 29	3644	837	85	1383
Gill, Thomas M., Mexico, Mo. Tobacco-pipe .....	611,575	Sept. 27	2643	610	84	2001
Gillam, James C., Coffeyville, Kans. Overshoe attachment .....	606,201	June 28	2155	494	83	1816
Gillespie, Richard S., New York, N. Y. Construction of supports for building-walls, &c ..	598,418	Feb. 1	610	149	82	718
Gillespie, Richard S., New York, N. Y. Mechanism for operating sluice-gates, &c .....	611,472	Sept. 27	2451	564 565	84	1964
Gillespie, William C. D., and W. B. Erb, Chicago, Ill. Automatic and emergency eleva- tor-car safety-brake .....	601,340	Mar. 29	3073	693 694	82	1884
Gillet, Aloysius J., and G. Rutter, Fall River, Mass. Loom .....	607,360	July 12	1353	289	84	279
Gillet, Joseph. (See Hoyt and Gillet.) .....						
Gillet, Joseph, assignor to Milwaukee Manufacturing Company, Milwaukee, Wis. Fric- tion-pulley .....	615,268	Dec. 6	88	24	85	1430
Gillett, Clarence R., assignor to H. W. Leman, Chicago, Ill. Method of and apparatus for generating acetylene gas .....	611,473	Sept. 27	2454	565	84	1964
Gillett, Clarence R., and O. S. Hellwig; said Hellwig assignor to said Gillett; said Gillett assignor to Gillett Generator Company, Chicago, Ill. Acetylene-gas generator .....	603,506	May 3	494	108	83	697
Gillett, Egbert W., <i>et al.</i> (See Koch, Alexander, assignor.) .....						
Gillett Generator Company. (See Gillett and Hellwig, assignors.) .....						
Gillett, Leonard C., Brownsdale, Minn. Steam heater and cooker .....	609,740	Aug. 23	2916	682	84	1268
Gillette, George D., Oswego, assignor to D. H. Burrell & Co., Little Falls, N. Y. Rotary cutter .....	614,947	Nov. 29	3120	715	85	1283
Gillette, Phineas E., assignor of one-half to H. Levitt, Grass Valley, Cal. Envelop .....	599,960	Mar. 1	528	120	82	1313
Gillham, Robert J., Orlando, Fla. Washing-machine .....	599,175	Feb. 15	1883	445	82	992
Gilliam, W. N., <i>et al.</i> (See Melvin, Wythe G., assignor.) .....						
Gillies, Alexander. (See Jones and Gillies.) .....						
Gillies, Beverly J., South Framingham, Mass. Nut-lock .....	611,838	Oct. 4	431	103	85	86
Gillihan, James M., assignor of one-half to A. S. Devenney, Olathe, Kans. Door-spring ..	611,997	Oct. 4	707	170	85	138
Gilliland Cigarette Machine Company. (See Gilliland, Ezra T., assignor.) .....						
Gilliland, Ezra T., New York, N. Y. Recorder for conveyances .....	610,268	Sept. 6	226	51	84	1486
Gilliland, Ezra T., New York, N. Y., assignor to Gilliland Cigarette Machine Company, of New Jersey. Mouthpiece-cigarette .....	609,741	Aug. 23	2918	682	84	1268



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Gilliland, George W. (See Bowling and Gilliland.)						
Gilliland, James F., assignor to Adrian Box Company, Adrian, Mich. Box-printing machine	603,685	May 10	806	178	83	774
Gilliland, James F., assignor to Adrian Box Company, Adrian, Mich. Box-making machine	609,803	Aug. 30	3027	708 709	84	1303
Gilliland, James F., Adrian, Mich., assignor, by mesne assignments, to D. A. Nease, Pittsburg, Pa. Box-assembling machine	613,626	Nov. 1	723	168	85	754
Gillinger, Jeremiah J., Quitman, Mo. Traction-wheel	615,157	Nov. 29	3504	805	85	1355
Gilliom, Daniel A., Berne, Ind. Non-refilling bottle	597,767	Jan. 25	2255	525	82	488
Gilman, Charles A., assignor of one-half to F. Tucker, Weare, N. H. Scalloping-machine	608,390	Aug. 2	398	88	84	734
Gilman, Charles C., Eldora, Iowa, assignor to Gilman's Earthenware House Company, of Iowa. Means of hindering spread of fire to and from rooms	615,696	Dec. 13	883	204	85	1599
Gilman, Charles H. (See Smith, Orison M., assignor.)						
Gilman, George H., and J. H. Brown, Tacoma, Wash. Emergency-knuckle for car-couplings	609,095	Aug. 16	1723	410	84	1021
Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Belt-tightener	598,658	Feb. 8	1017	245	82	812
Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Conveyer for corn-shellers	599,500	Feb. 22	2507	591	82	1135
Gilman, Willard H., Boston, Mass. Aerial conveyer	609,273	Aug. 16	2076	493 494	84	1089
Gilman's Earthenware House Company. (See Gilman, Charles C., assignor.)						
Gilmer, Tazewell, New York, N. Y. Device for locking or securing bicycles	608,769	Aug. 9	1070	245 246	84	884
Gilmore, James J., Allegheny, Pa. Binder	602,742	Apr. 19	1993	452	83	407
Gilmore, Mary E. administratrix. (See Gilmore, Robert J.)						
Gilmore, Robert J., deceased; M. E. Gilmore, administratrix, assignor of one-half to C. A. Dunlap, Providence, R. I. Water-motor apparatus	597,901	Jan. 25	2486	580	82	532
Gilmour, Alfred E. C., assignor of one-half to H. A. Lamb, Bridgeport, Conn. Soap-holding attachment	613,263	Nov. 1	65	16	85	629
Gilmour, Lyle J., Long Grove, Iowa. Tool for tightening wire fences	604,746	May 31	2800	640	83	1227
Giltonniere, Raoul R., de la. (See Singleton and Giltonniere.)						
Ginals, Wladyslaw. Novo-Kamiennaia, Russia. Cover for vessels or receptacles	615,483	Dec. 6	498	116	85	1508
Gingi, Edward L. (See Dinkelberg, Theodore, assignor.)						
Ginnasi, Francis, New York, N. Y. Acetylene-gas generator	613,901	Nov. 8	1203	275	85	866
Giordano, Geremia, Turin, Italy. Non-refillable bottle	609,507	Aug. 23	2502	585 586	84	1188
Gipe, Emanuel C., Freeport, Ill., assignor of one-fourth to G. W. Tassell, Waukesha, Wis. Elevated carrier	609,275	Aug. 16	2086	494	84	1090
Girard, Ferdinand, Paris, France. Apparatus for applying liquids to textile fabrics	606,454	June 28	2651	610	83	1915
Girod, Ernest, London, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Mold for linotype-machines	609,883	Aug. 30	3161	738	84	1330
Giron-Lanauze, Guillaume. (See Lafaurie and Giron-Lanauze.)						
Giroud, Peter G., Newark, N. J., assignor to J. S. MacCoy, New York, N. Y. Workman's time-recorder	602,845	Apr. 26	2182	494 495 496	83	459
Girrens, Nicholas, and J. H. Weitz, Buffalo, N. Y. Lock	608,592	Aug. 9	757	174	84	825
Girton, Lloyd, Camden, N. J. Framing-tool	597,464	Jan. 18	1755	406	82	375
Gish, Benjamin, Acme, Kans. Seed-drill cleaner	614,223	Nov. 15	1751	402 403	85	994
Gissing, George J., London, England. Buttonhole-casing	608,593	Aug. 9	759	175	84	825
Gitchell, Corwin, San Francisco, Cal. Multiple-coated carbon film and making same	611,409	Sept. 27	2335	84	84	1943
Githens, George M., Brooklyn, N. Y. Rock-drill engine	597,902	Jan. 25	2488	580	82	532
Gittus, Charles, Jr., assignor of two-thirds to A. F. Farman, Jr., and L. C. Gittus, Golden Gate, Cal. Music-leaf turner	604,825	May 31	2920	668 669	83	1250
Gittus, Charles, London, England, assignor of one-third to C., Jr., and L. C. Gittus, Golden Gate, Cal. Pin or peg for strings of musical instruments	605,043	May 31	3287	755	83	1321
Gittus, Louis C., et al. (See Gittus, Charles, assignor.)						
Gittus, Louis C., et al. (See Gittus, Charles, Jr., assignor.)						
Gizzi, Francis, New York, N. Y. Disinfecting apparatus	606,338	June 28	2436	564	83	1872
Glacken, Raymond M. (See Day and Glacken.)						
Glaesener, Georges. (See Glaesener and D'Huart.)						
Glaesener, Michel and G. Chatillon, and E. D'Huart, Luxemburg, Belgium. Process of and apparatus for purifying water	607,361	July 12	1354	289	84	279
Glasby, De Cloise. (See Gilkerson and Glasby.)						
Glascock, Charles O. and J. W. Muncie, Ind. Reclining-chair	612,384	Oct. 11	1399	338	85	280
Glascock, John W. (See Glascock, Charles O. and J. W.)						
Glase, John O., Reading, Pa. Tool holder or carrier for bicycles	604,210	May 17	1806	406	83	1001
Glaser, Firm of F. C. (See Lauter, Wilhelm, assignor.)						
Glasgow, Arthur G., et al. (See Green, Henry, assignor.)						
Glasgow, Arthur G., London, England. Method of and apparatus for carbureting water-gas	598,921	Feb. 15	1447	347	82	911
Glaskin, Edwin E., et al. (See Steward, George R., assignor.)						
Glasmachers, Gottfried, Essen, Germany. Blackboard	603,631	May 10	720	160 161	83	757
Glass, Benjamin W. (See Brittin and Glass.)						
Glass, Herbert G. H., Detroit, Mich. Protecting-plate for shoes	610,043	Aug. 30	3457	801	84	1387
Glass, J. W. (See Critchfield, Rush D., assignor.)						
Glass, Perley R., Quincy, assignor of one-half to I. E. Rumney, Somerville, Mass. Eye-letting-machine	615,018	Nov. 29	3245	746	85	1306
Glass, Sheldon J., Milwaukee, Wis. Coin-box for coin-controlled mechanism	601,251	Mar. 29	2896	660	82	1850
Glass, William M. (See Mackie, Peter H., assignor.)						
Glassford, Frederick A., Cleveland, Ohio. Carriage-pole tip	611,839	Oct. 4	432	103	85	86
Glatz, F. E., et al. (See Klemm, Hermann A., assignor.)						
Glauber, Isaac N., Cleveland, Ohio. Reversible waste-cock	615,546	Dec. 6	621	141	85	1533
Glauber, Isaac N., Cleveland, Ohio. Means for securing washers on plug valves	615,616	Dec. 6	736	169	85	1557
Glauber, Joseph H., Cleveland, Ohio. Stop and waste cock	606,535	June 28	2797	645	83	1944
Glauber, Joseph H., Cleveland, Ohio. Pipe-coupling for broken water-closet bowls	606,536	June 28	2799	645	83	1944
Glazier, John T. and P. F., Indianapolis, Ind. Universal nozzle for fires, lawns, &c	608,192	Aug. 2	46	11, 12	84	664
Glazier, Peter F. (See Glazier, John T. and P. F.)						
Gleason, Edgar, Onalaska, Wis. Automatic vending-machine	598,288	Feb. 1	393	92, 93	82	676
Gleason, Frederick L., et al. (See Thurber, Charles F., assignor.)						
Gleason, Homer A. (See Wells and Gleason.)						
Gleason, James E., assignor to Gleason Tool Company, Rochester, N. Y. Machine for forming gear-teeth	605,249	June 7	356	81 82 83	83	1419
Gleason, Jennie W., Chicago, Ill. Silk-skein holder	610,859	Sept. 13	1290	298	84	1710



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Gleason, Michael, Liberty, Ind. Fence-machine.....	601,414	Mar. 29	3199	722	82	1908
Gleason, Michael, Liberty, Ind. Fence.....	614,300	Nov. 15	1901	439	85	1021
Gleason, Robert M., E. J. Jackoboice, and A. H. Waterson, Grand Rapids, Mich. Glue-jointing machine.....	601,956	Apr. 5	653	137	83	123
Gleason, Robert W. (See McLaughlin, John G., assignor.)						
Gleason, Thomas R., Duluth, Minn. Ball-cock.....	615,386	Dec. 6	320	75	85	1475
Gleason Tool Company. (See Gleason, James E., assignor.)						
Gleason, Vesper A., South Riverside, Cal. Device for holding shovels onto cultivator-shanks.....	601,561	Mar. 29	3436	780	82	1957
Gleason, William, Rochester, N. Y. Gear-tooth.....	612,840	Oct. 25	2247	537	85	473
Gleixner, Joseph A., Fair Haven, Pa. Seed-sower.....	602,683	Apr. 19	1897	432	83	389
Glenn, Daniel, Del Rio, Tex. Ball-bearing screw-jack.....	610,044	Aug. 30	3458	801	84	1388
Glenn, Daniel, Del Rio, Tex. Screw-jack head.....	610,045	Aug. 30	3459	801	84	1388
Glenn, James L., Jr., assignor of one-half to R. Orgain, Clarksville, Tenn. Lacing-eye.....	596,584	Jan. 4	218	48	82	43
Glenn, John C., assignor to L. Skinner, Erie, Pa. Oil and water separator.....	616,661	Dec. 27	2706	629	85	1991
Glennon, Joseph M., Chicago, Ill. Bicycle-seat support.....	606,455	June 28	2652	610	83	1915
Glidden, George F., Watertown, Mass. Device for closing punctures in pneumatic tires.....	602,743	Apr. 19	1994	452	83	408
Glidden, William F., Ingersoll, Canada. Bicycle-wheel belt.....	605,181	June 7	221	54	83	1393
Glidden, William F., Ingersoll, Canada. Washing-machine.....	611,245	Sept. 27	2003	462	84	1881
Globe Match Company. (See Boulard, Joseph, assignor.)						
Glock, Albert O., Columbus, Ohio. Bracket-support for toilet articles.....	615,484	Dec. 6	499	116	85	1508
Glorieux, Henry, Roubaix, France. Jacquard-machine for looms.....	608,037	July 26	2813	598 599	84	600
Glorieux, William L. (See Warter, Antoine, assignor.)						
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Transom-lifter.....	600,864	Mar. 22	2238	510	82	1698
Glover, Eli S., San Francisco, Cal. Prospecting implement for miners' use.....	598,146	Feb. 1	124	29	82	626
Glover, George, <i>et al.</i> (See Laube, Godfried, assignor.)						
Glover, Henry G., Jackson, Mich. Bicycle-saddle.....	609,616	Aug. 23	2708	632	84	1227
Glover, Henry P. (See Sweet, Arthur J., assignor.)						
Glover, Theodore S., Norwalk, assignor to O. I. Allen, South Norwalk, Conn. Miner's prospecting-tool.....	614,265	Nov. 15	1848	427	85	1011
Glück, Max, New York, N. Y. Combination window-shutter and awning.....	607,232	July 12	1126	241	84	233
Gluck, Solomon, Temple, Tex. Caster.....	610,860	Sept. 13	1291	298	84	1711
Gluyas, Walter R., Höflund, N. D. Can-opener.....	597,768	Oct. 25	2255	525	82	489
Goddard, John E., Spencer, Mass. Gaging implement.....	611,625	Oct. 4	54	14	85	13
Goddard, John E., Spencer, Mass. Thread-cutting tool.....	613,264	Nov. 1	67	16	85	629
Godden, John H. (See Randall, John H., assignor.)						
Godden, John H. (See Seely, George A., assignor.)						
Godden, John H., and G. A. Seely, Emmetsburg, Iowa. Furniture-caster.....	616,310	Dec. 20	2034	473	85	1843
Godden, Stephen V. (See Cutler and Godden.)						
Goddin, Edgar A., London, England. Lock-nut.....	609,144	Aug. 16	1829	433	84	1039
Goddu, George, Winchester, Mass., assignor to Goddu Sons' Metal Fastening Company, Portland, Me. String-nail.....	599,933	Mar. 1	487	110	82	1306
Goddu, Louis H., Winchester, Mass. Brake mechanism.....	614,460	Nov. 22	2209	508	85	1094
Goddu Sons' Metal Fastening Company. (See Goddu, George, assignor.)						
Godfray, Ernest H., Quanaah, Tex. Gearing for bicycles.....	608,770	Aug. 9	1072	246 247	84	885
Godfrey, William, New York, N. Y. Sewer-trap.....	608,450	Aug. 2	500	113	84	755
Godin, Eugene, Three Rivers, Canada. Acetylene-gas generator.....	604,039	May 17	1480	332	83	938
Goding, Edwin L., Portland, Me. Last.....	604,282	May 24	2132	479	83	1084
Goding, Edwin L., Portland, Me. Last.....	604,383	May 24	2133	479	83	1084
Goding, Edwin L., Sanford, Me. Divided last with spring connection.....	614,461	Nov. 22	2211	508	85	1094
Godley, John F. (See Young and Godley.)						
Godman, Forqus O., Fort Wayne, assignor of five-eighths to C. W. Beeker, West Lafayette, Ind. Vehicle-brake.....	612,770	Oct. 18	2092	496	85	424
Godman, Forqus O., Fort Wayne, assignor of three-fourths to C. W. Beeker, West Lafayette, Ind. Car-brake.....	615,353	Dec. 6	244	57, 58	85	1461
Godshalk, Edward H. (See Palmer, John, assignor.)						
Godshall, Lincoln D., Everett, Wash. Ore-roasting furnace.....	598,084	Feb. 1	25	6	82	608
Godwin, Le Roy C. (See Lewis and Godwin.)						
Goebel, Christian H., assignor to W. Plish, trustee, Philadelphia, Pa. Non-refilling bottle.....	609,271	Aug. 16	2074	492	84	1088
Goehring, Fridolin, Union, N. J. Brush.....	608,265	Aug. 2	351	76	84	725
Goehring, Jacob, near Barnston, Nebr., assignor of one-half to T. W. McManus, St. Louis, Mo. Rotary engine.....	616,662	Dec. 27	2707	629 630	85	1991
Goepper, Emil A., Louisville, Ky. Burglar-alarm.....	600,068	Mar. 1	808	185	82	1372
Goergen, Charles, St. Louis, Mo. Mud-guard.....	608,451	Aug. 2	503	113	84	755
Goerk, Jacob. (See Leibe and Goerk.)						
Goertz, Carl P., and E. von Höegh, Schöneberg, Germany. Combined lens for photographic purposes.....	599,700	Mar. 1	45	10	82	1225
Goessling, William, St. Louis, Mo. Sign.....	606,923	July 5	512	112	84	101
Goetter, Hermann, New York, N. Y., assignor to Arlington Manufacturing Company, New York, N. Y., and Arlington, N. J. Pyroxylin compound.....	597,144	Jan. 11	1203	-----	82	250
Goetz, Charles, Viola, Idaho. Egg-carrier.....	605,418	June 7	695	154	83	1487
Goetze, Max, assignor to W. G. Smith and C. C. Polk, Sturgis, S. D. Spark-arrester.....	606,134	June 21	2036	466	83	1774
Goff, Frederick K., assignor to O. C. Devereux & Co., Providence, R. I. Separable button.....	616,461	Dec. 27	2322	541	85	1920
Goff, L. S., <i>et al.</i> (See Vance, Charles G., assignor.)						
Goff, Samuel B., Camden, N. J. Heating device for stoves, &c.....	599,419	Feb. 22	2344	553 554	82	1105
Goforth, William F. B. (See Gray, John M., assignor.)						
Goggan, John, <i>et al.</i> (See Labatt and Lewis, assignors.)						
Gohlke, Theodore, St. Louis, Mo. Machine for cutting ovals and irregular forms from sheet metal.....	613,265	Nov. 1	69	16	85	630
Göhrig, Heinrich, Darmstadt, Germany. Water-tube steam-boiler.....	600,069	Mar. 1	809	185 186	82	1372
Going, William J., assignor of one-half to L. Weldon, Amsterdam, N. Y. Adjustable support for incandescent lamps.....	598,218	Feb. 1	263	58	82	652
Going, William J., assignor of one-half to L. Weldon, Amsterdam, N. Y. Support for incandescent lamps, &c.....	598,219	Feb. 1	264	58	82	652
Going, William J., assignor of one-half to L. Weldon, Amsterdam, N. Y. Support for incandescent lamps.....	598,220	Feb. 1	266	58	82	653
Going, William J., assignor of one-half to L. Weldon, Amsterdam, N. Y. Support for incandescent lamps, &c.....	598,221	Feb. 1	267	59	82	653
Gold and Silver Extraction Company of America. (See MacArthur and Yates, assignors.)						
Gold, Edward E. (See Thornton, James A., assignor.)						
Gold, Edward E., New York, N. Y. Electric heater.....	600,417	Mar. 8	1443	330	82	1515



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Gold, Edward E., New York, N. Y. Electric heater	604,384	May 24	2134	479	83	1084
Gold Extraction and Bromine Recovery Company. (See Hinman, Bertrand C., assignor.)						
Gold, Lyman, assignor to Nordyke & Marmor Company, Indianapolis, Ind. Air-lock for dust-collectors.	613,266	Nov. 1	72	17	85	630
Gold Magnet and Mining Company. (See Greene, Charles E., assignor.)						
Goldberg Bros. (See Goldberg, Solomon H., assignor.)						
Goldberg, Solomon H., assignor to Goldberg Bros., Cincinnati, Ohio. Show-case	612,096	Oct. 11	902	218	85	187
Goldberger, Ignatz, Cleveland, Ohio. Undergarment	602,320	Apr. 12	1268	280 281	83	256
Goldberger, Ignatz, Cleveland, Ohio. Undergarment	606,202	June 28	2156	495	83	1817
Goldberger, Ignatz, Cleveland, Ohio. Undergarment	606,203	June 28	2158	496	83	1817
Golden, Dominic, Washington, D. C. Game-board and educational appliance	610,046	Aug. 30	3460	802	84	1388
Golden, George W., Detroit, Mich. Sash-lock	611,246	Sept. 27	2006	462	84	1881
Golden, George W., Detroit, Mich. Weather-strip	611,247	Sept. 27	2007	463	84	1882
Goldenfarb, Henry, London, England. Cigarette	606,537	June 28	2800	646	83	1944
Goldfinger, Louis, Newark, N. J. Fork	614,651	Nov. 22	2551	581	85	1155
Goldie, Peter C., Brockton, Mass. Trousers-protector	603,507	May 3	495	108	83	697
Goldie, William, Wilkinsburg, Pa. Rail-sustaining bar	601,645	Apr. 5	38	8	83	9
Goldie, William, Wilkinsburg, Pa. Rail-sustaining bar or plate	601,646	Apr. 5	40	8	83	9
Goldie, William, Wilkinsburg, Pa. Rail-sustaining bar or plate	601,647	Apr. 5	42	8	83	9
Goldie, William, Wilkinsburg, Pa. Rail-sustaining bar or tie-plate	607,847	July 26	2448	520	84	527
Goldie, William, Wilkinsburg, Pa. Tie-plate	610,179	Sept. 6	50	11	84	1451
Goldie, William, Wilkinsburg, Pa. Rail-sustaining bar and plate	611,474	Sept. 27	2458	565	84	1965
Golding, William, Withington, England, assignor, by mesne assignments, to Morgan & Wright, Chicago, Ill. Pneumatic tire for wheels	606,989	July 5	612	133	84	121
Goldman, Gustav, Baltimore, Md. Shoulder-pad	615,842	Dec. 13	1132	264	85	1647
Goldman, Gustav, Baltimore, Md. Shoulder-pad	615,843	Dec. 13	1133	265	85	1647
Goldman, Samuel S., assignor of one-half to F. F. Espenschied, St. Louis, Mo. Bicycle-brake	613,508	Nov. 1	535	121	85	717
Goldmann, Philipp, New York, N. Y. Crank-motion	615,158	Nov. 29	3505	806	85	1355
Goldsborough, John A. (See Burson, William W., assignor.)						
Goldsmith, Byron B., New York, N. Y. Magazine lead-pencil	603,183	Apr. 26	2748	625 626	83	568
Goldsmith, Byron B., New York, N. Y. Eraser	605,163	June 7	189	48	83	1386
Goldsmith, Byron B., New York, N. Y. Game or puzzle	605,164	June 7	191	48	83	1387
Goldsmith, Byron B., New York, N. Y. Finishing fibrous or absorbent surfaces	615,446	Dec. 6	429	264	85	1495
Goldsmith, David, New York, N. Y. Trunk or hat-box	601,073	Mar. 22	2581	588	82	1763
Goldsmith, Frederick E., Hamilton, Ohio. Beheading device	597,408	Jan. 18	1643	382	82	353
Goldsmith, Hugo. (See Goodhew and Goldsmith.)						
Goldsmith, Marcus K. (See Harris and Goldsmith.)						
Goldsmith, Max S. (See Webster, John M., assignor.)						
Goldsmith, William H. (See Hamblin, Stephen M., assignor.)						
Goldthwait, Abel G. (See Griswold and Goldthwait.)						
Goldthwait, Everett. (See Brennan, Wirley, and Goldthwait.)						
Goldthwaite, Warren P., Burlington, Iowa. Attachment for punches	608,256	Aug. 2	150	37	84	684
Goldzier, Hans, Vienna, Austria-Hungary. Printer's stick-frame	616,782	Dec. 27	2920	679	85	2034
Goll, Richard, Frankfort-on-the-Main, Germany. Device for admitting air to furnaces	604,385	May 24	2136	480	83	1084
Golland, Henry S. (See Whyte, John D., assignor.)						
Golling, Robert. (See Garrigus and Golling.)						
Gomber, George W., Conyngham, Pa. Sealing device	604,467	May 24	2299	522	83	1114
Gomber, George W., assignor to H. Gomber, Conyngham, Pa. Sealing device	605,709	June 14	1193	275	83	1600
Gomber, Harry. (See Gomber, George W., assignor.)						
Gomes, Joseph. (See Kugler and Gomes.)						
Gomez, Mack, Plaquemine, La. Cane-planter	611,034	Sept. 20	1597	366 367	84	1784
Gongwer, William H., Adamsville, Mich. Planter attachment	597,644	Jan. 18	2040	476	82	432
Gooch, Athelston E., South Braintree, Mass. Inner sole	606,860	July 5	424	91	84	84
Gooch, Frank A., New Haven, Conn. Soldering aluminium	597,111	Jan. 11	1152	82	82	241
Gooch, Frank A., New Haven, Conn. Flux for soldering aluminium	597,112	Jan. 11	1153	82	82	241
Good, Charles W., and A. Rufener, Englewood, Ill. Folding case or box	600,912	Mar. 22	2314	527	82	1712
Good, Daniel D., et al. (See Cline, William, assignor.)						
Good, Francis H., Philadelphia, Pa. Carpet-cleaner	600,525	Mar. 15	1668	380	82	1577
Good, James, Alum Wells, Va. Broom	600,124	Mar. 1	967	214	82	1407
Good, John, assignor to J. E. Good, New York, N. Y. Hackling-machine	608,979	Aug. 9	1489	351 352	84	962
Good, John, assignor to J. E. Good, New York, N. Y. Hackling-machine	608,980	Aug. 9	1491	352 353	84	962
Good, John, assignor to J. E. Good, New York, N. Y. Feeding apparatus for machinery for preparing fibrous materials	608,981	Aug. 9	1493	353 354	84	962
Good, Julia E. (See Good, John, assignor.)						
Good, Milton D., Abilene, Kans. Cake-turner	606,205	June 28	2171	498	83	1818
Good, Robert J., Watertown, N. Y., assignor to Stiles & Fladd Press Company, of New York. Drop-hammer	605,544	June 14	873	205	83	1541
Goodacre & Sons, William. (See Hodder, Edward, assignor.)						
Goodale, Alfred M. (See Ryon, Eppa H., assignor.)						
Goodall, George B., et al. (See Benoit, Joseph E., assignor.)						
Goodall, George B., Sanford, Me. Plush fabric	605,710	June 14	1194	275	83	1600
Goodchild, John. (See Dissosway, Crowell M., assignor.)						
Goodchild, John, guardian. (See Dissosway, Crowell M., assignor.)						
Goodell Brothers Company. (See Barrett, Lucius O., assignor.)						
Goodell Company. (See Gibney, William E., assignor.)						
Goodell, Dexter W., Northampton, Mass., assignor to J. W. Downs, New Haven, Conn. Sewing-machine	597,555	Jan. 18	1892	439	82	403
Goodell, Ernest W., Dover, N. J. Window-shutter fastener	600,718	Mar. 15	1998	455	82	1638
Gooden, Albert L., Lake George, Colo. Whim	600,070	Mar. 1	810	186	82	1373
Goodenough, C. F. (See Ramage, Joseph, assignor.)						
Goodenow, Frederick E. H., Rockford, Ill. Shoe-lace fastener	598,704	Feb. 8	1099	264	82	828
Gooder, Edwin. (See Cutler, James L., assignor.)						
Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, of New Jersey. Store-service apparatus	607,032	July 12	718	153	84	160
Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, of New Jersey. Store-service apparatus	608,594	Aug. 9	759	175	84	826
Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, of New Jersey. Store-service apparatus	608,595	Aug. 9	761	175	84	826
Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, of New Jersey. Store-service apparatus	608,596	Aug. 9	763	175	84	826



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Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, of New Jersey. Store-service apparatus.....	608,597	Aug. 9	765	176	84	827
Goodhue, Edward T., Covington, Ky., and H. Goldsmith, Cincinnati, Ohio. Grinding-machine.....	614,247	Nov. 15	1817	419 420	85	1005
Goodhue, Melissa, Keene, N. H. System for drafting dresses.....	613,988	Nov. 8	1343	305 306	85	894
Goodhue, William F., Milwaukee, Wis., assignor to Addyston Pipe and Steel Company, Cincinnati, Ohio. Land-roller.....	601,775	Apr. 5	293	58	83	56
Gooding, Charles S. (See Beauregard and Gooding.)						
Gooding, Charles S., Brookline, and V. Beauregard, assignors to R. D. Evans and J. S. Lockwood, Boston, Mass. Machine for cutting boot or shoe soles, &c.....	613,197	Oct. 25	2813	664 665	85	587
Gooding, Charles W., <i>et al.</i> (See Parsons, John H., assignor.)						
Gooding, George W., Seattle, Wash. Tank for oil-wagons.....	598,599	Feb. 8	911	218	82	794
Gooding, Josiah C., Covington, Ind. Machine for grooving or threading sheet-metal pipe-sections.....	616,783	Dec. 27	2921	679	85	2035
Goodline, George, Paterson, N. J., and J. A. Clark, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Picking mechanism for looms.....	604,897	May 31	3045	699	83	1275
Goodline, George, Paterson, N. J., and H. Wyman, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Take-up mechanism for looms.....	609,272	Aug. 16	2075	493	84	1088
Goodlett, Joseph E. J., Memphis, Tenn. Weighing and filling apparatus.....	608,117	July 26	2930	627 628	84	624
Goodman, Charles H., Bucyrus, Ohio. Flash-lamp.....	611,009	Sept. 20	1557	359	84	1776
Goodman, Eugene F., New York, N. Y. Sheet-feeding machine.....	601,562	Mar. 29	3437	781	82	1957
Goodlett, Joseph E. J., Memphis, Tenn. Barrel-filling machine.....	596,870	Jan. 4	725	170	82	141
Goodner, James A., Mosca, and J. M. Critton, Pueblo, assignors of one-third to G. H. Adams, Crestone, Colo. Motor.....	615,844	Dec. 13	1134	265	85	1647
Goodrich, Benjamin F. (See Merritt and Goodrich.)						
Goodrich, Charles W., Gardiner, Me. Sharpener for lawn-mowers.....	601,510	Mar. 29	3359	761	82	1940
Goodrich, Clarence L. (See Tucker and Goodrich.)						
Goodrich, Clarence L., assignor to W. W. Tucker, Hartford, Conn. Bicycle-crank.....	597,196	Jan. 11	1287	301	82	266
Goodrich, Edwin D. (See Dayton, Romain P., assignor.)						
Goodrich, Edward W., Appleton, Wis. Paper-pulp screen.....	611,901	Oct. 4	534	130	85	106
Goodridge, Ira C., Rochester, N. Y. Apparatus for disposing of garbage from buildings.....	606,483	June 28	2692	620	83	1923
Goodridge, James F., Boston, Mass. Adjustable handle-bar for bicycles.....	610,132	Aug. 30	3594	833	84	1416
Goodsell, Zalmon. (See Grunow, William, Jr., assignor.)						
Goodson, George A., Minneapolis, Minn. Composing-machine for type casting and setting machines.....	606,007	June 21	1791	411 412 413 414	83	1729
Goodson, George A., assignor, by mesne assignments, to Goodson Type Casting and Setting Machine Company, Minneapolis, Minn. Composing-machine for type casting and setting machines.....	605,954	June 21	1692	387 388	83	1712
Goodson, George A., assignor, by mesne assignments, to Goodson Type Casting and Setting Machine Company, Minneapolis, Minn. Type casting and setting machine.....	605,955	June 21	1695	388 389	83	1712
Goodson, George A., assignor, by mesne assignments, to Goodson Type Casting and Setting Machine Company, Minneapolis, Minn. Controller for type casting and setting machines.....	605,956	June 21	1701	389 390	83	1713
Goodson, George A., assignor, by mesne assignments, to Goodson Type Casting and Setting Machine Company, Minneapolis, Minn. Differential letter-space register for composing-machines.....	605,957	June 21	1703	390 391	83	1713
Goodson, George A., assignor to Goodson Type Casting and Setting Machine Company, Minneapolis, Minn. Composing-machine.....	609,097	Aug. 16	1726	411 412 413 414	84	1021
Goodson, George A., Minneapolis, Minn., assignor to Goodson Type Casting and Setting Machine Company, Providence, R. I. Type casting and setting machine.....	609,098	Aug. 16	1732	415 416 417 418	84	1022
Goodson Type Casting and Setting Machine Company. (See Goodson, George A., assignor.)						
Goodspeed, Frank W., Grand Rapids, Mich. Bundle-carrier.....	614,545	Nov. 22	2348	538	85	1119
Goodwin, Asabel J., Brookline, Mass. Invalid-bedstead.....	603,632	May 10	721	161	83	757
Goodwin, Hannibal, Newark, N. J. Photomechanical-plate holder.....	600,688	Mar. 15	1944	443 444	82	1628
Goodwin, Hannibal, Newark, N. J. Device for manufacturing compressible tubes.....	610,398	Sept. 6	492	108	84	1534
Goodwin, Hannibal, Newark, N. J. Photographic pellicle and producing same.....	610,861	Sept. 13	1292	298	84	1711
Goodwin, Harold R., London, England. Accessory for use in conjunction with air-pumps.....	612,097	Oct. 11	903	219	85	187
Goodwin, Henry L., New York, N. Y. Radiator.....	599,897	Mar. 1	429	95	82	1294
Goodwin, Howard T. (See Dolley, Charles S., assignor.)						
Goodwin, John M., New York, N. Y. Dumping-vehicle.....	603,528	May 3	537	118	83	704
Goodwin, Julius C., Philadelphia, Pa. Buttonhole-sewing machine.....	606,204	June 28	2161	496 497 498	83	1817
Goodwin, Lewis D., Lawrence, Mass. Canopy for cycles.....	597,845	Jan. 25	2400	558 559	82	516
Goodwin, Wesley R., Indianapolis, Ind. Oil-can.....	604,386	May 24	2137	480	83	1084
Goodwin, William W., <i>et al.</i> (See Lewes, Vivian B., assignor.)						
Goodwin, William W., Bordentown, N. J. Acetylene-gas generator.....	604,879	May 31	3018	693	83	1269
Goodwyn, George F., Arnprior, Canada. Electric time-switch.....	598,864	Feb. 8	1345	325	82	875
Goodyear Shoe Machinery Company. (See Blossom, Edwin F., assignor.)						
Goodyear Shoe Machinery Company. (See Harris, Elmer S., assignor.)						
Goodyear Shoe Machinery Company. (See Winkley, Erastus E., assignor.)						
Gould Bicycle Company. (See Wilson, William S., assignor.)						
Goolman, Fred R., assignor of three-fourths to J. Weber and J. N. Goolman, Los Angeles, Cal. Autopneumatic piano-player.....	598,419	Feb. 1	611	150 151	82	718
Goolman, Fred R., assignor of three-fourths to J. Weber and J. N. Goolman, Los Angeles, Cal. Electropneumatic piano-player.....	603,184	Apr. 26	2752	626 627	83	568
Goolman, John N., <i>et al.</i> (See Goolman, Fred R., assignor.)						
Goppert, Julius, Grovertown, Ind. Hay-rake.....	597,496	Jan. 18	1805	418	82	385
Gorden, Isom A., Blue Mound, Ill. Gate.....	609,617	Aug. 23	2711	632	84	1227
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-binder spring.....	608,038	July 26	2814	599	84	600
Gordon, Frederick W., Valley View, Tex. Gang-plow.....	603,136	Apr. 26	2686	610	83	556
Gordon, George, Lerna, Ill. Reversible mud-guard and storm-fender.....	606,135	June 21	2037	466	83	1774



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Gordon, Ira F., Traverse City, Mich. Spraying device	614,384	Nov. 15	2064	476	85	1053
Gordon, John, Rio Janeiro, Brazil. Dephosphorizing steel or other metals	609,341	Aug. 16	2196		84	1112
Gordon, John A., Sharpsburg, Iowa. Reaping-machine	602,441	Apr. 19	1476	337	83	310
Gordon, Lincoln, Lucknow, India. Apparatus for automatically locking railway-wagon doors	616,611	Dec. 27	2596	602	85	1970
Gordon, Max, Waterbury, Conn. Gage for watch-crystals	609,580	Aug. 23	2627	615	84	1212
Gordon, Minthorne T., assignor of one-half to J. L. Feeny, New York, N. Y. Derrick for raising or lowering telegraph-poles	608,193	Aug. 2	48	12	84	664
Gordon-Mitchell Gas Lamp Company. (See Swift, William R., assignor.)						
Gordon, William, and P. A. Coupal, Boston, Mass. Cementing apparatus	614,857	Nov. 29	2935	674	85	1244
Gordon, William J., Philadelphia, Pa. Amusement device	599,420	Feb. 22	2346	554 555	82	1105
Gordon, William J., Philadelphia, Pa., assignor to R. Porter's Sons. Can-heading machine	612,031	Oct. 11	784	193 194	85	164
Gordon, William S. (See Clarke, Morgan, and Gordon.)						
Gore, Edward E., Newburg, N. Y. Non-refillable bottle	608,118	July 26	2932	628	84	624
Gore, William M., assignor of one-half to C. O. Willett, Johnstown, Pa. Pipe-flange coupling	612,455	Oct. 18	1521	365	85	317
Görge, Johannes H. F., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Apparatus for adjusting phases of alternating currents	611,902	Oct. 4	536	131	85	107
Gorham, George R., Chicago, Ill., assignor of one-half to A. R. Angle, Indianapolis, Ind. Grain-treating apparatus	604,880	May 31	3021	693 694	83	1270
Gorham Manufacturing Company. (See Webster, Christopher, assignor.)						
Gorin & Company. (See Krause, Hugo C., assignor.)						
Gorman, Birch T., Cave in Rock, Ill. Plow	612,719	Oct. 18	1999	474	85	406
Gorman, Frank, Mount Oliver, assignor to Lewis Foundry and Machine Company, Pittsburgh, Pa. Method of and apparatus for making chilled rolls	616,835	Dec. 27	3006	700	85	2052
Gorman, John I. (See Carroll and Gorman.)						
Gorman, Patrick O., Jerseyville, Ill. Gate for wire fences	608,328	Aug. 2	294	65	84	714
Gorman, Peter J., Buffalo, N. Y. Piston-rod packing	596,585	Jan. 4	219	48	82	44
Gormley, James, New York, N. Y. Window-support for clothes-lines	616,784	Dec. 27	2923	679 680	85	2085
Gorrell, William R., Carsins Run, assignor of one-half to R. H. Webster, Aberdeen, Md. Hat-pin	599,526	Feb. 22	2549	598	82	1144
Gorrell, William R., Carsins Run, assignor of two-thirds to R. H. Webster and S. Davis, Aberdeen, Md. Rope-clamp	612,160	Oct. 11	1013	244	85	208
Gorsline, Homer A. (See Doyle, Thomas, assignor.)						
Gorter, Henry H., assignor to M. E. Gorter, San Francisco, Cal. Rotary nozzle	600,198	Mar. 8	1088	246	82	1447
Gorter, Henry H., assignor to M. E. Gorter, San Francisco, Cal. Portable water-battery	605,446	June 7	733	166	83	1493
Gorter, Henry H., assignor to M. E. Gorter, San Francisco, Cal. Portable water-battery	613,368	Nov. 1	272	61 62 63	85	669
Gorter, Mary E. (See Gorter, Henry H., assignor.)						
Gorton, Charles, New York, N. Y. Agricultural boiler	612,411	Oct. 18	1450	350	85	303
Gorton, Robert, Newton, Mass. Garment-supporter	603,899	May 10	1197	271	83	849
Gorton, Robert, Newton, Mass. Hose-supporter	607,742	July 19	2214	468	84	465
Gosling, John, New York, N. Y. Window-seat	608,366	Aug. 2	351	77	84	725
Gosney, Ezra S. (See Mendenhall, Walter E., assignor.)						
Gosnell, Frank D., and J. E. Thomas, Terre Haute, Ind. Pulley-block	598,776	Feb. 8	1208	293	82	849
Goss & Co., et al. (See Bullis, Frederick O., assignor.)						
Goss, Edward O., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lubricator	603,686	May 10	807	178	83	774
Goss, Godfrey W., Kokomo, Ind. Carbon transmitter	605,575	June 14	935	218	83	1553
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Right-angle swivel connection	608,852	Aug. 9	1259	293	84	918
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Pump-plunger	609,185	Aug. 16	1896	451	84	1050
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Valve for inflation	610,985	Sept. 20	1520	349	84	1769
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Valve for inflation	616,836	Dec. 27	3007	701	85	2052
Goss Printing Press Company. (See Goss, Samuel G., assignor.)						
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Printing-machine	612,966	Oct. 25	2449	584	85	513
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Counting apparatus for printing-presses	612,967	Oct. 25	2452	585	85	514
Gossart, Emile, Bordeaux, France. Acetylene-gas generator	606,861	July 5	425	91	84	84
Gottlieb, Edward O. (See Zacek and Gottlieb.)						
Gottlock, Albert W., Brooklyn, N. Y. Rule and measuring-stick	602,131	Apr. 12	933	204	83	189
Gottschalk, Herman, and T. Hemeke, Brooklyn, N. Y. Measuring device	601,465	Mar. 29	3283	742	82	1924
Gough, William H. (See Langford, William S., assignor.)						
Gould, Charles M. (See Richards, Willard F., assignor.)						
Gould, Charles M. (See Wilhelm and Richards, assignors.)						
Gould Coupler Company. (See Richards, Willard F., assignor.)						
Gould, Edwin F., assignor of one-half to C. B. Donworth, Machias, Me. Candy-machine	604,314	May 17	2002	449	83	1039
Gould, Edwin J. (See Smith and Gould.)						
Gould, Frank J., Marion, Ind. Stove	602,577	Apr. 19	1697	386	83	351
Gould, John D., Brooklyn, N. Y. Heat-detector for electric fire-alarm systems	601,730	Apr. 5	206	41	83	40
Gould, William F., Des Moines, Iowa, assignor of one-half to W. Bishop, New York, N. Y. Railway-tie plate	598,222	Feb. 1	268	59	82	653
Goulding, George P., Charlotte, N. Y. Bottle-washer	602,071	Apr. 12	835	181	83	170
Goulds Manufacturing Company. (See Smithwick, Nathaniel A., assignor.)						
Gourrier, Hilaire M. (See Leconte and Gourrier.)						
Gover, Samuel J., Cockeysville, Md. Stock-releasing device	610,806	Sept. 13	1201	276	84	1691
Gowan, Albert G., Corsicana, Tex. Baling-press	615,159	Nov. 29	3507	806	85	1355
Gowdy, Herbert W. B., Union Pier, Mich. Skate-sharpener	597,163	Jan. 11	1234	290	82	256
Gowen, Frank E., Norrie, Colo. Can-opener	606,805	July 5	324	67	84	65
Gowen, George, Chicago, Ill. Corn-harvester	602,216	Apr. 12	1097	241	83	220
Graber, Ellis, and L. Hepworth, Tunbridge Wells, England. Ruling-machine	609,884	Aug. 30	3164	738 739 740 741	84	1330
Graber, Henry W., Dallas, Tex. Cotton-seed conveyer	603,185	Apr. 26	2758	627	83	569
Grabill, Phares R., Lancaster, Pa. Dumping-car	616,663	Dec. 27	2713	630	85	1992



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Grable, Virgil L., <i>et al.</i> (See Laube, Godfried, assignor.)						
Grabler, Peter, Mansfield, Ohio. Expanding-arm syringe	615,697	Dec. 13	885	205	85	1599
Grace, Alfred A., Nelson, and T. S. Grace, Blenheim, New Zealand. Buckle	613,902	Nov. 8	1204	275	85	866
Grace, Annie T. (See Ballam, De Lacy E., assignor.)						
Grace, Thomas S. (See Grace, Alfred A. and T. S.)						
Grace, Wilfred M., Chicago, Ill. Table	611,117	Sept. 20	1760	403	84	1815
Grace, William D., Frugality, Pa. Miner's lamp	600,418	Mar. 8	1444	330	82	1515
Gracey, Charles, Kingman, Ariz. Ter. Crushing-mill stamp-stem	616,311	Dec. 20	2035	474	85	1843
Gracey, Charles B., Coraopolis, and L. R. Watt, Pittsburg, assignors to Pittsburg Ornamental Iron Works, Pittsburg, Pa. Swing	600,963	Mar. 22	2395	546	82	1721
Grady, James, New York, N. Y. Bicycle handle-bar	610,352	Sept. 6	406	87	84	1518
Grady, James F., Boston, and M. Hart, Cambridge, Mass. Marine velocipede	602,072	Apr. 12	838	181	83	170
Grady, William, Cortland, N. Y., assignor of one-half to I. B. Fairchild. Sprocket-wheel for bicycles	605,819	June 14	1401	321	83	1638
Grady, William S. (See Weichelt, Grady, and Jones.)						
Graefe, Franz A. F., Hamburg, Germany. Protector for incandescent mantles	602,505	Apr. 19	1575	360	83	330
Graeff, Friedrich W. H., Berlin, Germany, assignor to M. S. Wormser, of New York. Effervescent milk beverage and making same	607,362	July 12	1357	289	84	279
Graf, Carl, Mülhausen, assignor to L. Ratzinger and W. Weidenkaff, Munich, Germany. Back-pressure valve for pneumatic tires	606,383	June 28	2517	584	83	1887
Graf, Charles J. (See Moyer and Graf.)						
Graf, Conrad, Banning, Cal. Preserving fruit-juices	608,425	Aug. 2	466		84	748
Graff, Friedrich, Witten, Germany. Railway coupling apparatus	612,607	Oct. 18	1804	427	85	370
Graftstrom, Edward, Columbus, Ohio. Railway-switch stand	609,099	Aug. 16	1755	418	84	1024
Graft, John C., Newark, N. J. Plastic compound	613,763	Nov. 8	969		85	821
Graham, Albert A., Topeka, Kans. Spark-arrester	607,927	July 26	2601	551	84	557
Graham, Arthur W., Cortland, N. Y. Necktie-display stand	598,507	Feb. 8	752	181	82	762
Graham, Charles E., Swampscott, assignor to G. H. P. Flagg, trustee, Boston, Mass. Flexible rotary wheel or brush	603,761	May 10	929	206	83	797
Graham, Charles E., Swampscott, assignor to G. H. P. Flagg, trustee, Boston, Mass. Buffing or polishing device	604,933	May 31	3110	715	83	1287
Graham, Elizabeth K., Leavenworth, Kans. Scholar's companion	597,481	Jan. 18	1786	413	82	381
Graham, Francis M., San José, Cal. Air-compressor. (Reissue)	11,654	Mar. 8	1627	371	82	1549
Graham, George M., Chicago, Ill. Apparatus for molding concrete conduits	596,586	Jan. 4	220	48, 49	82	44
Graham, Herbert L., Augusta, Ga. Sander	601,095	Mar. 22	2610	595	82	1769
Graham, Hugh W., Louisville, Ky. Inhaling-mask	601,074	Mar. 22	2582	589	82	1763
Graham, Jacob A., and J. W. Kile, Deerfield, Va. Car wheel and axle	601,648	Apr. 5	44	9	83	9
Graham, James. (See Pickett, Rufus S., assignor.)						
Graham, James A., Milwaukee, Wis. Lathe-chuck	599,961	Mar. 1	530	121	82	1313
Graham, James A., and E. J. Birkett, assignors to Milwaukee Harvester Company, Milwaukee, Wis. Harvester-truck	602,030	Apr. 5	766	165	83	145
Graham, Jerome B., and P. F. Frost, Syracuse, N. Y. Gate	600,986	Mar. 22	2437	556	82	1735
Graham, John H., Boston, Mass. Brake mechanism for railway-cars	610,676	Sept. 13	964	223	84	1644
Graham, John W., Avalon, Pa. Lubricator	597,903	Jan. 25	2489	581	82	532
Graham, Lucie A., Denver, Colo. Skirt-supporter	610,133	Aug. 30	3595	833	84	1417
Graham, Malcolm, <i>et al.</i> (See Beardsley and North, assignors.)						
Graham, Orvey E., Wray, Colo. Rotary steam-engine	612,032	Oct. 11	787	194	85	165
Graham, Simon F., assignor to Pastime Lawn Mower Company, Detroit, Mich. Lawn-mower	597,972	Jan. 25	2608	610	82	556
Graham, William A. D., Toronto, Canada. Pneumatic tire	614,806	Nov. 22	2827	650	85	1209
Graham, William G., Stanley, Kans. Continuous rail-brace	605,866	June 21	1517	349	83	1678
Graham, Willie, Meridian, Miss. Lumber-stacking apparatus	604,145	May 17	1682	378, 379	83	976
Graham, Willie, Meridian, Miss. Lumber-stacking apparatus	604,146	May 17	1686	379, 380	83	977
Graham, Willie, Meridian, Miss. Lumber-stacking apparatus	604,169	May 17	1723	388, 389	83	984
Grand, Julien. (See Grenier and Grand.)						
Grand Rapids Brass Company. (See Tower, Daniel W., assignor.)						
Grand Rapids Cycle Company. (See Knape and Dake, assignors.)						
Grand Rapids School Furniture Company. (See Linn, Allen D., assignor.)						
Grandstaff, Charles D. (See Holler, John W., assignor.)						
Grandy, Edward F., Everett, Mass. Hand tack-driving machine	609,426	Aug. 23	2348	553	84	1160
Granger, Frank E. (See Crofoot and Granger.)						
Granger, Horace D., Avon, assignor of one-half to E. Shelton, Hartford, Conn. Hinge	602,846	Apr. 26	2187	496	83	460
Granite Railway Torpedo Company. (See Bevington, James H., assignor.)						
Grannis, Charles W., <i>et al.</i> (See Jackson, Samuel, assignor.)						
Grannis, George D., <i>et al.</i> (See Jackson, Samuel, assignor.)						
Grannis, Marlin R., <i>et al.</i> (See Jackson, Samuel, assignor.)						
Grant, Albert E., Troy, N. Y. Machine for ironing points of collars	614,224	Nov. 15	1754	403	85	995
Grant, Charles N., Hull, Mass. Roller-toboggan	602,442	Apr. 19	1477	337	83	310
Grant, David S., Methuen, Mass. Pipe-cutter	606,538	June 28	2801	646	83	1944
Grant, Dora A., Patten, Me. Salt-shaker	608,516	Aug. 2	613	137	84	777
Grant, Emmett C., assignor to E. Covert, Farmer, N. Y. Gate-hook	613,139	Oct. 25	2721	643	85	568
Grant, George B., Lexington, Mass. Calculating-machine	605,288	June 7	438	98, 99	83	1435
Grant, James W., Bradford, assignor of one-half to M. Chase, Haverhill, Mass. Rotary suction-box for paper-making machines	614,714	Nov. 22	2667	608	85	1176
Grant, John C., London, England. Rim for cycle or other road-wheels	613,674	Nov. 8	791	181	85	788
Grant, John F., Lynn, assignor of one-half to C. L. Holland, Boston, Mass. Last	606,164	June 21	2090	480	83	1784
Grant, Robert E. (See Naab and Grant.)						
Grant, William W., Brooklyn, N. Y. Motor-vehicle	602,621	Apr. 19	1778	406	83	366
Grantland, John W. (See Sharp and Grantland.)						
Grantland, John W., assignor to Haines, Jones & Cadbury Company, Philadelphia, Pa. Set washbasin	615,387	Dec. 6	322	75, 76	85	1475
Granum, Ole, Montevideo, Minn. Drill-brace	614,385	Nov. 15	2066	476	85	1053
Granville, William P. (See Smith and Granville.)						
Grapengeter, Fritz D., Davenport, Iowa. Mail-box	611,683	Oct. 4	159	39	85	34
Grapes, George H., Wellington, New Zealand, assignor of one-half to A. O'Brien, Summerfield, England. Preventing fraud in connection with contents of bottles or the like	602,044	Apr. 5	788	171	83	149
Grass, George L., Kingston, Canada. Automatic bicycle-lock	602,397	Apr. 12	1402	316	83	282
Grauerholz, Louia W., Kensington, Kans. Cultivator	615,160	Nov. 29	3508	806	85	1356
Grauten, Charles. (See Doty, MacKnight, and Grauten.)						
Gravel, Francis X. (See Peltier, Joseph, assignor.)						
Gravelle, Octave, Spokane, Wash. Automatic checkrein-holder	599,898	Mar. 1	431	95	82	1295
Gravelot, Jules. (See Johnson and Gravelot.)						
Graven, Henry, Rochester, N. Y. Gage for cutting and trimming machines	609,199	Aug. 16	1920	457	84	1055



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Graver, William, Chicago, Ill. Storage-tank	597,879	Jan. 25	2453	572 573	82	526
Graves, Cassius S., Badaxe, Mich. Wind-wheel apparatus	612,720	Oct. 18	2000	474	85	407
Graves, Charles W. (See Verpillier and Graves.)						
Graves, Erwin, assignor to Camden Iron Works, Camden, N. J. Hydraulic riveting-machine	615,547	Dec. 6	623	141 142	85	1533
Graves, Frederick S., Hancock, Me. Clothes-pin	609,198	Aug. 16	1919	457	84	1055
Graves, Herbert P. H. (See Aitkens and Graves.)						
Graves, John W., Little Rock, Ark. Cotton-press	608,982	Aug. 9	1495	354 355	84	963
Graves, John W., Little Rock, Ark., assignor to American Cotton Company, New York, N. Y. Cotton-press	608,667	Aug. 9	899	205 206	84	852
Graves, John W., Little Rock, Ark., assignor to American Cotton Company, New York, N. Y. Cotton-press	608,668	Aug. 9	903	206 207	84	853
Graves, John W., Little Rock, Ark., assignor to American Cotton Company, New York, N. Y. Cotton-press	608,669	Aug. 9	906	207 208	84	854
Graves, Lewis H. (See James, Ulysses S., assignor.)						
Graves, Salathiel V. (See McDaniel and Graves.)						
Graves, William D., St. Ansgar, Iowa. Bag-holder	608,853	Aug. 9	1261	293	84	918
Graves, Willis N., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Brick-kiln	616,415	Dec. 20	2227	519 520	85	1879
Gravier, Henri J. B., Ithaca, N. Y. Green-corn cutter	607,363	July 12	1359	290	84	280
Gravis, John B., assignor of one-half to M. D. Wilson, Canton, Ohio. Elastic-tread horse-shoe	601,038	Mar. 22	2524	574	82	1751
Gray, Astor G., Emporia, Kans. Burglar-alarm	606,862	July 5	426	92	84	84
Gray Automatic Telephone Pay Station Company. (See Gray, William, assignor.)						
Gray, Charles A., Kansas City, Kans. Street-car air-brake	599,421	Feb. 22	2353	555	82	1107
Gray, Christian H. (See Sloper, Thomas, assignor.)						
Gray, Dennis A., Boston, Mass. Mail-collection system	596,993	Jan. 11	941	223	82	200
Gray, Ellis S., <i>et al.</i> (See Lord, Charles F., assignor.)						
Gray, Edwin D., <i>et al.</i> (See Lapaugh, Louis T., assignor.)						
Gray European Telautograph Company. (See McPherson, Leon O., assignor.)						
Gray, Frank, Atlantic City, N. J. Propelling mechanism for vessels	605,782	June 14	1332	305	83	1625
Gray, Frank, Chicago, Ill. Valve for fire-extinguishers	615,354	Dec. 6	247	58	85	1462
Gray, George, London, England. Apparatus for decanting or drawing off wines or other liquids	601,075	Mar. 22	2583	589	82	1763
Gray, George A., and E. Richter, assignors to G. A. Gray Company, Cincinnati, Ohio. Feed for metal-planers	597,355	Jan. 11	1548	360 361	82	317
Gray, George A., and E. Richter, assignors to G. A. Gray Company, Cincinnati, Ohio. Feed for metal-planers	597,356	Jan. 11	1546	361	82	317
Gray, Herbert S. (See Faas and Gray.)						
Gray, Isaac C., Tippecanoe, assignor of two-thirds to A. J. Tipton and W. Vantrees, Mentone, Ind. Tire-tightener	596,495	Jan. 4	54	12	82	13
Gray, James C., and T. Roderick, Columbus, Ohio; said Roderick assignor to said Gray. Gas-burner	611,248	Sept. 27	2008	463	84	1882
Gray, John, Pittsburg, Pa., assignor to W. T. Fitz Gerald. Syringe	604,147	May 17	1690	380	83	978
Gray, John M., assignor to W. F. B. Goforth, Iberia, Mo. Kitchen-cabinet	615,980	Dec. 13	1280	322	85	1694
Gray, Joseph A., Carrolltown, Pa. Lock	606,282	June 28	2326	538	83	1851
Gray, Joshua G. (See Swan and Gray.)						
Gray, Latimer D., <i>et al.</i> (See McCamey, Charles M., assignor.)						
Gray, Lee L., <i>et al.</i> (See Cox, Cary S., assignor.)						
Gray, Milton C., Omaha, Nebr. Soft-tread horseshoe	611,730	Oct. 4	250	60	85	51
Gray, Milton C., Omaha, Nebr. Horseshoe	611,731	Oct. 4	252	60	85	51
Gray, Milton C., Omaha, Nebr. Soft-tread horseshoe	612,200	Oct. 11	1070	257	85	219
Gray, Philander R., Jr., Elizabeth, N. J. Apparatus for filtration under pressure	596,994	Jan. 11	942	223 224	82	200
Gray, Philander R., Jr., Elizabeth, N. J. Filter-press	596,995	Jan. 11	946	224	82	200
Gray, Reuben F., Washington, D. C. Noria	601,957	Apr. 5	656	138	83	123
Gray, Silas W., Fort Dodge, Iowa, assignor to Geneva Optical Company, Chicago, Ill. Optician's instrument for adjusting spectacles	610,301	Sept. 6	309	67	84	1501
Gray, Stephen B., Jacksonville, Ill. Traction-engine	608,517	Aug. 2	614	138 139	84	777
Gray Telephone Pay Station Company. (See Gray, William, assignor.)						
Gray, Thomas, Terre Haute, Ind. Continuous engine-indicator	615,161	Nov. 29	3510	807	85	1356
Gray, Thomas W., Peoli, Ohio. Drill	612,329	Oct. 11	1307	316	85	262
Gray, Walter G., Marrowbone, Tenn., assignor to himself, and T. P. Allen, Elmo, Ky. Combined cotton-seed planter and fertilizer-distributor	603,900	May 10	1199	271	83	849
Gray, William, Lincoln, Nebr. Sizing-machine for gold or like metals	607,564	July 19	1911	395	84	407
Gray, William, Lincoln, Nebr. Gold and ore separator	609,540	Aug. 23	2556	598	84	1198
Gray, William, assignor to Gray Telephone Pay Station Company, Hartford, Conn. Telephone	596,496	Jan. 4	55	12	82	14
Gray, William, assignor to Gray Telephone Pay Station Company, Hartford, Conn. Coin-controlled apparatus for telephones	597,556	Jan. 18	1894	439	82	403
Gray, William, assignor to Gray Automatic Telephone Pay Station Company, Hartford, Conn. Coin-controlled telephone pay-station	598,610	Feb. 8	926	222	82	797
Gray, William, assignor to Gray Automatic Telephone Pay Station Company, Hartford, Conn. Telephone pay-station	612,330	Oct. 11	1308	316 218	85	262
Gray, William H., Eddyville, Iowa. Corn-harvester	602,157	Apr. 12	996	219 420	83	201
Gray, William H., Eddyville, Iowa. Corn harvester and binder	602,659	Apr. 19	1846	421 422	83	379
Gray, William R. (See Cooley, John F., assignor.)						
Greager, Herman, Manchester, N. H. Razor	613,032	Oct. 25	2546	606	85	534
Greaves, Charles H. and G., Gomersal, England. Tire for cycles	601,055	Mar. 22	2553	582	82	1758
Greaves, Charles H. and G., Gomersal, England. Tire for cycles or other vehicles	605,867	June 21	1519	349	83	1679
Greaves, George. (See Greaves, Charles H. and G.)						
Gréé, Paul D. de la, Algiers, Algeria. Steam-generator	612,098	Oct. 11	905	219	85	187
Green, Aleck H., Owensborough, Ky. Combined cultivator and planter	607,364	July 12	1360	290	84	280
Green, Casper, assignor of one-half to O. Cranor and J. Hammon, Dublin, Ind. Collapsible truck	605,224	June 7	312	71	83	1411
Green, Charles E., <i>et al.</i> (See Fraser, Ethelbert M., assignor.)						
Green, Charles M., Highland Park, Ill. Machine for driving nails	611,214	Sept. 20	1930	445 446 447	84	1847
Green, Charles M., Cleveland, Ohio, assignor to General Electric Company, of New York. Generating and distributing electric energy	613,880	Nov. 8	1172	268	85	861



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Green, Charles M., Cleveland, Ohio, assignor to General Electric Company, of New York. Generating and distributing electric energy	613,881	Nov. 8	1175	269	85	861
Green, Charles M., Cleveland, Ohio, assignor to General Electric Company, of New York. Generating and distributing electric energy	613,882	Nov. 8	1178	269	85	862
Green, David A., assignor of one-third to W. Worster, Emporia, Kans. Cash-register	597,973	Jan. 25	2609	610 611	82	557
Green, David I., Frontier, Mich. Saw-handle	602,158	Apr. 12	1000	219	83	201
Green, Edward, Wakefield, England. Heating apparatus	610,134	Aug. 30	3597	834 835	84	1417
Green, Edward J., and S. C. Brown, Saratoga Springs, N. Y. Carriage-washer	604,898	May 31	3047	699	83	1275
Green, Frank A. (See Connet and Green.)						
Green, Frank W., Buffalo, N. Y. Horse-hitch	613,006	Oct. 25	2513	598	85	527
Green, George I., Petaluma, Cal. Automatic fire-kindler	610,986	Sept. 20	1521	349	84	1769
Green, George R. (See Marks and Green.)						
Green, George S., Kalamazoo, Mich., assignor, by mesne assignments, to D. A. Dangler, Cleveland, Ohio. Handle-bar for bicycles	602,600	Apr. 19	1741	397	83	359
Green, George W., South McAlester, Ind. Ter. Railway-signal	602,004	Apr. 5	723	154	83	136
Green, Henry, Hartford, Conn. Electric searing-pen	597,373	Jan. 11	1583	368	82	326
Green, Henry, Hartford, Conn. X-ray apparatus	607,233	July 12	1128	241 242	84	234
Green, Henry, Preston, England, assignor to himself, A. C. Humphreys, and A. G. Glasgow, New York, N. Y. Prepayment fluid-meter	606,625	June 28	2951	683 684 685	83	1973
Green, Henry L., Worcester, Mass. Curtain-fixture	604,881	May 31	3023	694	83	1270
Green, James L. and Z. R., Kansas City, Mo. Lemonade-shaker	602,939	Apr. 26	2351	536	83	492
Green, Jerry S., Maquoketa, Iowa. Clothes-line support	603,633	May 10	723	162	83	757
Green, John C., Cleveland, Ohio. Smoke-condenser	605,280	June 7	425	96	83	1433
Green, John L., <i>et al.</i> (See Miller, John F., assignor.)						
Green, Joseph, Philadelphia, Pa. Coin-holder	604,315	May 17	2004	449	83	1039
Green, Joseph L., Pulaski, Tenn. Tire-bolt clipper	598,778	Feb. 8	1211	294	82	849
Green, Julius A., Shelbyville, Mo. Post-hole auger	596,587	Jan. 4	225	49	82	45
Green, Luther S. (See McDaniel, William D., assignor.)						
Green, Peyton B., Wytheville, Va. Self-closing gate	609,668	Aug. 23	2806	654	84	1247
Green, Pleasant N. (See Fowler and Green.)						
Green, Robert D., Cyclone, Pa. Oil-well fishing-tool	615,162	Nov. 29	3513	807	85	1357
Green, Robert G. (See Murphey, Frank P., assignor.)						
Green, Robert G., <i>et al.</i> (See Johnston, John S., assignor.)						
Green, Robert M., Philadelphia, Pa. Soda-fountain	612,033	Oct. 11	789	195	85	165
Green, Samuel, Mossley, England. Dash-pot for steadying mule-carriages	604,563	May 24	2472	562	83	1146
Green, Sanford, Lewiston, Mont. Coin-controlled vending device	616,416	Dec. 20	2229	520 521	85	1880
Green, Thomas, Newark, N. J. Detachable lift or handle for boxes, cases, &c	615,355	Dec. 6	249	58	85	1462
Green, Thomas W., assignor to Wilbraham Baker Blower Company, Philadelphia, Pa. Rotary blower	601,136	Mar. 22	2676	612	82	1782
Green, Thomas W., assignor to Wilbraham Baker Blower Company, Philadelphia, Pa. Oiler for shafts of pressure-blowers	601,649	Apr. 5	45	9	83	10
Green, Thomas W., assignor to Wilbraham Baker Blower Company, Philadelphia, Pa. Journal-box	602,287	Apr. 12	1217	268	83	245
Green, Willard R. (See Howard, Augustus, assignor.)						
Green, Willard W., Ashland, Va. Coupling for harness-straps	613,989	Nov. 8	1344	306	85	895
Green, William H., Elizabeth, N. J. Sash-lift	610,135	Aug. 30	3598	835	84	1417
Green, William W., Chicago, Ill. Multiple boring-machine	596,772	Jan. 4	563	129 130	82	108
Green, Zack R. (See Green, James L. and Z. R.)						
Greenall, John, Leeds, England. Gas-meter	611,626	Oct. 4	55	14, 15	85	13
Greenberg, Benjamin, Boston, Mass. Watch-protector	600,000	Mar. 1	588	135	82	1324
Greene, Albert B., Mechanicsville, N. Y. Toy puzzle	611,840	Oct. 4	433	103	85	86
Greene, Albert L., deceased, Cranston; F. I. Greene, administratrix, assignor to C. A. Wilkinson, Warwick, and D. Wilcox, Providence, R. I. Spectacles	606,283	June 28	2327	539	83	1852
Greene, Albert L., deceased, Cranston; F. I. Greene, administratrix, assignor, by mesne assignments, to Providence Optical Company, Providence, R. I. Spectacles	612,331	Oct. 11	1309	317	85	262
Greene, Charles E., Providence, R. I. Riffle-plate	599,128	Feb. 15	1801	429	82	979
Greene, Charles E., assignor to Gold Magnet and Mining Company, Providence, R. I. Composition of matter for gold-collecting plates	597,113	Jan. 11	1154	272	82	241
Greene, Fannie I., administratrix. (See Greene, Albert L.)						
Greene, Francis V., Philadelphia, Pa. Sash-fastener	610,739	Sept. 13	1070	245	84	1665
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Overedge-seam for sewed article	598,338	Feb. 1	466	111	82	690
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Purling device for overedge sewing-machines	598,339	Feb. 1	467	111 112	82	690
Greene, John. (See Beals, Frederick W., assignor.)						
Greene, John W., Manchester, N. Y. Single-piece sheet-metal handle	602,234	Apr. 12	1120	246	83	225
Greene, Leon W., Brooklyn, Mich. Wire-fence lock	611,362	Sept. 27	2239	517	84	1924
Greene, Thomas R., Milburn, Ky. Fence	603,901	May 10	1202	271	83	850
Greene, Wallace. (See Williams, William E., assignor.)						
Greene, William J., Cedar Rapids, Iowa. Automatic cut-out for electrical converters	598,922	Feb. 15	1450	347 348	82	911
Greenebaum, Albert, <i>et al.</i> (See Vidler, Louis R., assignor.)						
Greenebaum, Simon, <i>et al.</i> (See Vidler, Louis R., assignor.)						
Greener, William W. (See Thompson, Joseph D. and W., assignors.)						
Greenerd, Robert C., Boston, Mass. Apparatus for handling coal	609,020	Aug. 16	1587	378	84	995
Greenfield, Edwin T., New York, N. Y. Pipe or tube coupling	599,558	Feb. 22	2610	612	82	1156
Greenfield, Edwin T., New York, N. Y. Armored electric cable	616,612	Dec. 27	2597	603	85	1970
Greenfield, William, San Francisco, Cal. Safety-razor	614,049	Nov. 8	1431	329	85	912
Greengard, Morris D., St. Louis, Mo. Shade-holder	601,829	Apr. 5	388	82	83	73
Greenhalgh, Oscar, Chicago, Ill. Steam-generator	612,771	Oct. 18	2094	496 497	85	424
Greenidge, Vivian, Newton, Mass. Collar-adjuster	609,932	Aug. 30	3249	759	84	1347
Greenig, Joseph B., Philadelphia, Pa. Apparatus for melting snow	610,180	Sept. 6	52	12	84	1451
Greenleaf, Clements A., Indianapolis, Ind. Turn-table	599,934	Mar. 1	489	110	82	1306
Greenleaf, Elgin A., Bangor, Me. Oil-burner	600,612	Mar. 15	1807	414 415	82	1602
Greenleaf, Harry K., assignor of two-thirds to C. E. Potter and J. C. Hollister, Portland, Oreg. Thawing-machine or device for producing hot-air blasts	601,135	Mar. 22	2675	612	82	1781
Greenleaf, Latham W., assignor of one-half to J. C. Couper, Terre Haute, Ind. Wheelwright-machine	608,452	Aug. 2	504	113 114	84	756



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Greenleaf, Silas N., Seattle, and H. Barker, Hoquiam, Wash. Chart-table .....	609,669	Aug. 23	2809	654	84	1247
Greenlee Brothers & Company. (See Lattimore, Daniel J., assignor.) .....						
Greenup, Francis M., St. Louis, Mo. Globe-holder .....	615,845	Dec. 13	1135	265	85	1647
Greenwald, Louis. (See Benson and Greenwald.) .....						
Greenwell, Charles H., Indianapolis, Ind. Combination-horseshoe .....	610,965	Sept. 20	1475	337	84	1761
Greenwood, Daniel R., <i>et al.</i> (See Greenwood, John T., assignor.) .....						
Greenwood, George, Chicago, assignor of one-half to F. E. Place, Peoria, Ill. Elastic-cushioned horseshoe .....	602,622	Apr. 19	1783	407	83	367
Greenwood, Horace T., <i>et al.</i> (See Greenwood, John T., assignor.) .....						
Greenwood, John, Rochester, N. Y. Stave-jointer .....	600,146	Mar. 8	1006	225	82	1431
Greenwood, John, Rochester, N. Y. Lubricator .....	611,475	Sept. 27	2459	566	84	1965
Greenwood, John T., assignor to himself, D. R. and H. T. Greenwood, and W. Bault, Philadelphia, Pa. Mercerizing apparatus .....	608,194	Aug. 2	51	12	84	665
Greer, George W., Concord, N. H. Shoulder-stick .....	604,581	May 24	2505	570	83	1152
Greer, Green B., Camden, Tenn. Fence .....	602,217	Apr. 12	1099	241	83	221
Greer, Jerome B., Warrensburg, Mo. Cultivator .....	598,420	Feb. 1	616	151	82	719
Greger, Thomas P., Philadelphia, Pa. Manhole-cover .....	606,206	June 28	2172	498	83	1818
Gregg, Robert D., Goodrich, Ill. Lantern-lighting attachment .....	597,769	Jan. 25	2257	526	82	489
Gregg, Walter. (See Donaghy, Humphrey, and Gregg.) .....						
Gregory, F., <i>et al.</i> (See Downey, Richard F., assignor.) .....						
Gregory, Frank E., Victor, Mich. Grout water-tank machine .....	604,387	May 24	2138	480	83	1085
Gregory, Fred L., Chicago, Ill. Panoramic camera .....	611,010	Sept. 20	1559	359	84	1777
Gregory, Friend H., New York, N. Y. Wrapper .....	614,807	Nov. 22	2328	651	85	1209
Gregory, George W., <i>et al.</i> (See Cousins, Alfred C., assignor.) .....						
Gregory, Henry R., and R. H. Batton, Prescott, assignors of one-half to C. H. Dicks, Des Moines, Iowa. Straw-stacker .....	606,165	June 21	2091	481	83	1785
Gregory, James A., Woodville, N. C. Cultivator .....	616,837	Dec. 27	3008	701	85	2053
Gregory, John F., St. John, Canada. Support for type-writers or the like .....	606,889	July 5	462	99	84	91
Gregory, Joseph, New York, N. Y. Lamp-burner .....	608,284	Aug. 2	198	47	84	694
Gregson-Ellis, Richard G., <i>et al.</i> (See Jones, Robert O., assignor.) .....						
Gregson-Ellis, William S., <i>et al.</i> (See Jones, Robert O., assignor.) .....						
Gregson, William, Mier, Ind. Rotary can-opener .....	598,065	Jan. 25	2769	645	82	588
Greife, John, Dayton, Ky. Sash-fastener .....	606,484	June 28	2693	621	83	1923
Greiner, Charles J., St. Louis, Mo. Kite .....	598,777	Feb. 8	1209	293	82	849
Grempler & Hermann. (See Hermann, Johann E., assignor.) .....						
Grenier, Oscar, and J. Grand, Lyons, France. Apparatus for generating acetylene gas .....	606,539	June 28	2802	646	83	1945
Grenier, Peter S., Pawtucket, assignor of one-half to R. W. Lockwood, Providence, R. I. Expansion bit-stock wrench .....	612,924	Oct. 25	2386	568	85	501
Grennan, Joseph F. (See Weigand, Frank L., assignor.) .....						
Grenzbach, Charles C., Birmingham, Ohio. Automatic fly-trap .....	599,501	Feb. 22	2511	591	82	1136
Gress, Samuel, Scranton, Pa. Thill-coupling .....	615,269	Dec. 6	90	24	85	1431
Gresty, John E., Huddersfield, England. Metal tube .....	607,033	July 12	720	153	84	161
Grether, John, <i>et al.</i> (See Stanford, Leland E., assignor.) .....						
Greutman, George, Rochester, N. Y. Sully .....	615,447	Dec. 6	430	102	85	1496
Grew, Frederick W., London, England. Fire-sprinkler .....	615,270	Dec. 6	91	25	85	1431
Grey, Ernst, assignor of three-fifths to R. F. Carter, St. Louis, Mo. Apparatus for making gas .....	600,221	Mar. 8	1123	256	82	1454
Greyer, Bertha A., Boston, Mass. Embroidery-frame .....	598,201	Feb. 1	234	52	82	646
Gribben, William, and H. W. Smith, Carsonville, Mich. Cover for crocks, &c .....	604,040	May 17	1481	332	83	938
Griebel, Andrew, Cleveland, Ohio. Barrel-scrubbing machine .....	611,576	Sept. 27	2644	610	84	2001
Griep, Bruno W. E., Hamburg, Germany, assignor to H. E. Ehrenberg, Milwaukee, Wis. Steam-atomizer .....	614,099	Nov. 15	1529	350	85	952
Grier, George E., Pomona, Cal. Peach-pitting machine .....	596,935	Jan. 4	835	198	82	162
Griesbach, William C., Taurus, N. J. Brake for vehicles .....	614,546	Nov. 22	2349	538	85	1119
Griesche, Gustav, East Berkeley, Cal. Apparatus for separating and saving precious metals .....	599,701	Mar. 1	46	11	82	1225
Griese, August, Hamburg, Germany. Attachment for steam-boilers .....	606,384	June 28	2518	584	83	1887
Griffin, Arthur B., Verona, N. J., assignor to Acetylene Apparatus Manufacturing Company, of West Virginia. Apparatus for generating acetylene gas .....	605,958	June 21	1707	391	83	1714
Griffin, Alvah M. (See Price and Griffin.) .....						
Griffin, Alvah M., assignor to Griffin Gas Company, Marysville, Kans. Acetylene-gas generator .....	611,577	Sept. 27	2645	610	84	2001
Griffin, Alvah M., Vining, assignor to Griffin Gas Company, Marysville, Kans. Acetylene-gas generator .....	612,841	Oct. 25	2248	537	85	473
Griffin, Alvah M., and F. H. Shuler, Vining, Kans. Music-leaf turner .....	598,779	Feb. 8	1212	294	82	849
Griffin Gas Company. (See Griffin, Alvah M., assignor.) .....						
Griffin, George W., assignor of one-half to P. C. Hancock, Franklin, N. H. Machine for cutting off metal .....	615,163	Nov. 29	3514	807 808	85	1357
Griffin, Herbert, <i>et al.</i> (See Russell, William, assignor.) .....						
Griffin, James, Leominster, Mass. Heel for footwear .....	611,035	Sept. 20	1599	367	84	1784
Griffin, James A., assignor of one-half to B. Boley, Brooklyn, N. Y. Wicker structure .....	598,305	Feb. 1	417	98	82	681
Griffin, Judson M. (See Hoffman, William M., assignor.) .....						
Griffin, Michael J., and P. W. Hogan, Island Pond, Vt. Car .....	610,442	Sept. 6	562	124	84	1546
Griffin, Michael J., and P. W. Hogan, Island Pond, Vt. Opening or closing device for fire-box doors .....	610,443	Sept. 6	564	124	84	1547
Griffin, Russell B., Mexico, Mo., assignor of one-half to C. M. Amsden, L. T. and H. P. Watson, Minneapolis, Minn. Kneader .....	602,398	Apr. 12	1403	316	83	282
Griffin Wheel Company. (See Doolittle, William W., assignor.) .....						
Griffin, William H., Hawthorne, N. J. Writing-tablet .....	598,368	Feb. 1	514	124	82	699
Griffis, Henry L., assignor of one-half to J. Deyo, New Paltz, N. Y. Playing-card .....	603,186	Apr. 26	2761	628	83	569
Griffis, Jack C., Gipsy, Ala. Stock-feeder .....	599,935	Mar. 1	492	111	82	1306
Griffith, Amenzo. (See Martin, George F., assignor.) .....						
Griffith, Charles, Woburn, Ill. Mop-wringer .....	612,842	Oct. 25	2250	538	85	474
Griffith, Edward A. (See Quidas, Frederick W., assignor.) .....						
Griffith, Ethelbert S., Toledo, Ohio. Vapor-generating and heating apparatus .....	611,198	Sept. 20	1894	437 438	84	1841
Griffith, Henry, Jr., Birmingham, England, A. E. Kemplen, Bécon-les-Bryères, and V. Coppée, Levallois-Perret, France. Purifying and hardening aluminium .....	612,161	Oct. 11	1014	-----	85	208
Griffith, Henry, Jr., Birmingham, England, A. E. Kemplen, Bécon-les-Bryères, and V. Coppée, Levallois-Perret, France. Alloy for soldering .....	616,613	Dec. 27	2599	-----	85	1970
Griffith, J. P., <i>et al.</i> (See Parsons, Willard T., assignor.) .....						
Griffith, James P., Johnstown, Pa. Coat-lifter .....	609,427	Aug. 23	2348	554	84	1160
Griffith, Robert, Elizabeth, Pa. Sash-fastener .....	609,428	Aug. 23	2350	554	84	1160
Griffith, Thomas R., Pittston, Pa. Coal-crusher .....	610,136	Aug. 30	3599	836	84	1417
Griffith, William H., New York, N. Y. Chain-link .....	599,232	Feb. 15	1968	466	82	1009
Griffith, William H., New York, N. Y. Chain-link .....	599,233	Feb. 15	1970	467	82	1009



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Griffith, William H., New York, N. Y. Chain-link.....	604,316	May 17	2006	449	83	1039
Griffiths, Alfred H., Smethwick, and E. T. Read, Handsworth, England. Lamp-fitting.....	614,100	Nov. 15	1530	350	85	952
Griffiths, Amos E., Philadelphia, Pa., assignor to United Smoke and Vapor Condensing Company, of New Jersey. Apparatus for condensing fumes, vapors, &c.....	596,996	Jan. 11	948	225	82	201
Griffiths, Ebenezer F. (See Mahoney and Griffiths.)						
Griffiths, Ebenezer F., Philadelphia, Pa. Prepayment gas-meter.....	603,070	Apr. 26	2581	586	83	534
Griffiths, Ebenezer F., Philadelphia, Pa. Coin-freed prepayment gas-meter.....	612,544	Oct. 18	1666	396 397	85	344
Griffiths, George, assignor of one-half to W. H. Avery, Los Angeles, Cal. Composite fuel and making same.....	604,317	May 17	2006	-----	83	1040
Griffiths, James A. (See McCallum, William A. F., assignor.)						
Griffiths, James A., Philadelphia, Pa. Safety attachment for valves.....	596,497	Jan. 4	56	13	82	14
Griffiths, William J., Jr., Mount Vernon, N. Y. Extension car-step.....	616,230	Dec. 20	1889	436	85	1812
Grigg, Thomas H., Philadelphia, Pa. Wheel-tire.....	597,164	Jan. 11	1235	290	82	256
Grigsby, William F., Bruceville, Ind. Binder.....	602,443	Apr. 19	1479	338	83	311
Grim, Simon, St. Philip, Ind. Thill-coupling.....	600,780	Mar. 15	2091	479	82	1657
Grim, William D., Venus, Nebr. Transplanter.....	610,625	Sept. 13	888	203	84	1628
Grimes, Charles, Rapid City, S. D. Gold-washer.....	604,980	May 31	3179	732	83	1301
Grimes, Charles, Rapid City, S. D. Gold-washer.....	612,034	Oct. 11	791	195	85	165
Grimes, Thaddeus S., Atlanta, Ga. Pneumatic-tire punch.....	612,587	Oct. 18	1752	415	85	359
Grimm, Alva S., St. Mary's, W. Va. Garment-supporter.....	602,073	Apr. 12	839	182	83	170
Grimm, Gerhardt E. (See Wilson and Grimm.)						
Grimm, Henry J., assignor of one-half to W. T. Grimm, Quincy, Ill. Baling-press.....	616,785	Dec. 27	2925	680	85	2035
Grimm, Maximilian, West Hoboken, N. J., assignor to E. N. Dickerson and J. J. Suckert, New York, N. Y. Process of and apparatus for burning acetylene gas.....	605,868	June 21	1519	349 350	83	1679
Grimm, William T. (See Grimm, Henry J., assignor.)						
Grimmel, John G., Chicago, Ill. Spring-scale.....	608,518	Aug. 2	622	140	84	778
Grimshaw, Henry, Elroy, assignor of one-half to E. F. Mertz, Milwaukee, Wis. Ice-vehicle.....	616,099	Dec. 20	1621	379 380	85	1760
Grimshaw, James T., and J. E. Kenisell, Detroit, Mich. Hot-water heater.....	596,498	Jan. 4	58	13	82	14
Grimshaw, William D., Accrington, England. Mechanical stoker.....	600,419	Mar. 8	1445	330	82	1515
Grindrod, John R., Lynn, Mass., assignor to General Electric Company, of New York. Commutator.....	614,462	Nov. 22	2212	509	85	1094
Grinnell, Adelbert J., Waltham, Mass. Antifriction-bearing.....	598,317	Feb. 1	438	105	82	685
Grinnell, Frederick, New Bedford, Mass., assignor to General Fire Extinguisher Company, New York, N. Y. Automatic fire-extinguisher.....	600,246	Mar. 8	1166	265	82	1462
Grinsfelder, Joseph R., Spokane, Wash. Cigar-box attachment.....	610,807	Sept. 13	1203	277	84	1692
Grinsfelder, Joseph R., Spokane, Wash. Label-holder.....	616,312	Dec. 20	2036	474	85	1843
Griscom, Dora I. H., executrix. (See Griscom, William W.)						
Griscom, Walter, et al. (See Loutzenhiser, Charles H., assignor.)						
Griscom, Walter, Philadelphia, Pa. Scraper for sieves.....	608,039	July 26	2815	599	84	600
Griscom, William W., deceased, Haverford, Pa.; D. I. H. Griscom, executrix. Manufacture of storage-battery grids.....	597,846	Jan. 25	2402	559	82	517
Grisson, Robert, Hamburg, Germany. Crank mechanism.....	601,563	Mar. 29	3440	781	82	1957
Grist, Benjamin W., assignor to Pennsylvania Iron Works Company, Philadelphia, Pa. Throttle-valve.....	596,871	Jan. 4	728	170	82	142
Grist, Benjamin W., assignor to Pennsylvania Iron Works Company, Philadelphia, Pa. Reversing mechanism for gas or other engines.....	599,779	Mar. 1	181	45	82	1250
Grist, Charles J., London, England. Making oil fabrics.....	596,872	Jan. 4	729	-----	82	142
Grist, Ebenezer, Spiroville, Ark. Gate.....	608,670	Aug. 9	908	208	84	854
Griste, Laura H., New York, N. Y. Bottle.....	598,923	Feb. 15	1454	348	82	912
Griswold, Florence M., Brooklyn, N. Y. Pneumatic distributing system for liquids.....	599,702	Mar. 1	49	11	82	1226
Griswold, Frank B., Troy, N. Y. Vehicle-tire.....	596,499	Jan. 4	60	13, 14	82	15
Griswold, Frank B., Troy, N. Y. Pneumatic tire.....	596,700	Jan. 4	435	99	82	85
Griswold, Frank B., Troy, N. Y. Pneumatic tire for vehicles.....	596,701	Jan. 4	437	99	82	86
Griswold, John W., and A. G. Goldthwait, Troy, N. Y. Machine for making wire fencing.....	604,041	May 17	1482	332 333 334	83	938
Griswold Manufacturing Company. (See Griswold and Shields, assignors.)						
Griswold, Matthew, Jr., Erie, Pa. Coffee-mill.....	616,614	Dec. 27	2600	603	85	1970
Griswold, Matthew, Jr., and D. Shields, assignors to Griswold Manufacturing Company, Erie, Pa. Gas-stove.....	601,039	Mar. 22	2525	574	82	1751
Groebl, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Fabric-puffing machine.....	599,328	Feb. 22	2160	513	82	1068
Groebl, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Jacquard mechanism for embroidering-machines.....	607,234	July 12	1133	242	84	234
Groebl, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Embroidering-machine.....	607,848	July 26	2450	520	84	528
Groebl, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Festoon apparatus.....	609,429	Aug. 23	2351	554	84	1161
Groff, Franklin L. (See Merritt and Groff.)						
Groger, William R., Petroleum Centre, Pa. Puzzle.....	596,500	Jan. 4	62	14	82	15
Grohmann, Carl L. (See Harper and Grohmann.)						
Grohmann, Carl L. (See Tyler and Grohmann.)						
Grohmann, Carl L., Hartford, Conn. Tail-stock for milling-machines.....	610,677	Sept. 13	965	223	84	1644
Grohmann, Carl L., Hartford, Conn. Attachment for metal-working machines.....	612,332	Oct. 11	1310	317	85	262
Grohmann, Carl L., Hartford, Conn. Index-head for milling-machines.....	612,412	Oct. 18	1451	350 351	85	303
Grohmann, Carl L., and L. E. Harper, Hartford, Conn. Machine for dressing metals or other materials.....	612,239	Oct. 11	1140	273 274 275 276	85	233
Groignard, Marius, Marseilles, France. Valve.....	605,711	June 14	1196	628 629 630	83	1600
Grommann, Hugo, assignor to C. E. Flemming, Schoenheide, Germany. Work-holder for brush-machines.....	603,187	Apr. 26	2762	629 630	83	570
Gronau, Friedrich, Leipsic, Germany. Mechanical music-work.....	599,703	Mar. 1	52	11, 12	82	1226
Gronquist, John L. (See Walquist, Nelson, and Gronquist.)						
Gronwald, Hugo, Berlin, Germany. Method of and apparatus for making durable fluids containing carbonic acid.....	611,732	Oct. 4	253	61	85	52
Groobey, George, Chicago, Ill. Flexible uncoupling means for railway-cars.....	612,588	Oct. 18	1753	415	85	359
Groom, John, assignor of one-half to O. Reuter, Denver, Colo. Water-gate.....	602,803	Apr. 19	2105	475	83	429
Grootenboer, Huibert, Paterson, N. J. Car-fender-supporting means.....	606,965	July 5	566	125	84	112
Gropley, Frank M., and E. H. Peters, Cincinnati, Ohio. Sprayer.....	608,391	Aug. 2	399	88	84	734
Gros, Christian, and J. F. Thomas, Delphi, Ind. Fence-post.....	602,744	Apr. 19	1996	452	83	408
Grosheim, John G., and G. L. Seaman, Cincinnati, Ohio. Switching apparatus for street-cars.....	598,705	Feb. 8	1100	264	82	828



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Grosheim, John G., and G. L. Seaman, Cincinnati, Ohio. Switching apparatus for street-cars.	611,449	Sept. 27	2409	553	84	1955
Grosjean, Charles E., <i>et al.</i> (See Holloway, James C., assignor.)						
Gross, Augustus, Sydney, New South Wales. Pump for inflating pneumatic tires	603,634	May 10	725	162	83	758
Gross, Elmer S., assignor to J. H. Hopkins, Ellsworth, Me. Heel-building machine	602,005	Apr. 5	724	154	83	137
Gross, George F., Rockaway Beach, N. Y. Sidewalk-curb and culvert-cover	603,561	May 3	584	130	83	714
Gross, Joseph, Milwaukee, Wis. Sad-iron	603,329	May 3	150	35	83	631
Grossgebauer, John, Newark, N. J. Hat attachment	599,176	Feb. 15	1884	446	82	992
Grossman, Amanda I., Cuero, Tex. Horse-releaser	600,310	Mar. 8	1271	290	82	1482
Grossman, Lorenz S. (See Noack and Grossman.)						
Grosvenor, Wallace, Casselton, N. D. Transportation system	606,284	June 28	2328	539 540	83	1852
Grote, Frederick, Huntingburg, Ind. Dirt-scraper	606,540	June 28	2305	646	83	1945
Grotenhuis, William J., and H. T. Sidway, Chicago, Ill. Velocipede	606,541	June 28	2306	647	83	1945
Groth, Herman, and F. C. Rother, Sac City, Iowa. Hat-rack	597,522	Jan. 18	1845	427 428	82	393
Grothier, John W., Sackett's Harbor, N. Y. Delivery-sheet holder	607,034	July 12	720	154	84	161
Grotper, Ernest C., St. Louis, Mo. Combined clothes-rack, ironing-board support, and receptacle	611,476	Sept. 27	2461	566	84	1965
Grottke, Theodore, West Hoboken, N. J. Safety-door for dumb-waiter shafts	598,369	Feb. 1	515	125	82	699
Groupe, Andrew V., assignor to J. Murphy, Philadelphia, Pa. Cuff-buttoner	601,137	Mar. 22	2677	612	82	1782
Groupe, Andrew V., Moore, assignor to J. L. Branson, Philadelphia, Pa. Knitting-machine	608,040	July 26	2816	599 600	84	600
Groutage, James. (See Morris, Orson, assignor.)						
Grove, Charles E. (See Snell and Grove.)						
Grove, David, Berlin, Germany. Heating plate or wall	600,526	Mar. 15	1670	381	82	1577
Grove, David, Berlin, Germany. Covering-plate for channels for pipes, &c	604,582	May 24	2506	570	83	1152
Grove, David, Berlin, Germany. Baking-oven	614,463	Nov. 22	2214	509	85	1094
Grove, Edwin W., St. Louis Mo. Preparing medicinal compounds	609,342	Aug. 16	2198		84	1112
Grove, Frank G. (See Stover and Grove.)						
Grove, Frank G., and F. E. Stover, Luray, Va. Folding umbrella	608,453	Aug. 2	508	114	84	756
Grove, Frank G. and F. E. Stover, Luray, Va., assignors to T. A., A. C., F. A., S. I., and H. A. Wilkinson, Cincinnati, Ohio, G. A. A. Deane, Little Rock, Ark., and G. D. Meiklejohn, Washington, D. C. Folding umbrella	612,333	Oct. 11	1312	317	85	263
Grove, George H., Hummelstown, Pa. Collapsible crate	601,650	Apr. 5	46	9	83	10
Grove, Richard, assignor of one-half to W. Bumbaugh, Salem, Ohio. Dust-pan	614,858	Nov. 29	2937	674	85	1245
Grover, Albert D. (See Romans and Grover.)						
Grover, Charles, Kansas City, Mo. Trolley-head	606,711	July 5	138	29	84	29
Groves, Robert S., Philadelphia, Pa. Metal brace	600,865	Mar. 22	2239	510	82	1698
Groves, Robert S., Philadelphia, Pa. Securing device for bedsteads	605,869	June 21	1521	350	83	1679
Grow, Harvey P. P., Frederick, Md. Bottle and closure	596,588	Jan. 4	226	50	82	45
Grubb, William I., Pottstown, Pa. Bottom bracket for bicycles	609,186	Aug. 16	1897	451	84	1050
Grube, Aaron C., Los Angeles, Cal., assignor of one-half to W. J. Sofield, Peoria, Ill. Pop-corn press	611,118	Sept. 20	1762	404	84	1815
Grubinski, Jan von, Warsaw, Russia. Superheater	599,780	Mar. 1	133	45, 46	82	1250
Grubinski, Jan, Warsaw, Russia. Apparatus for superheating steam	614,301	Nov. 15	1902	429	85	1021
Gruene, Carl, Berlin, Germany. Extracting fatty matter from wool	613,267	Nov. 1	74	17	85	630
Gruhlke, Augustus C., Waterloo, Ind., assignor to himself, and E. G. Flack, Tiffin, Ohio. Cigar-lighter	613,140	Oct. 25	2723	643	85	568
Gruhlkey, Daniel, Marseilles, and W. H. Gruhlkey, Ottawa, Ill. Detector-bar for railway-switches	616,703	Dec. 27	2792	647	85	2007
Gruhlkey, William H. (See Gruhlkey, Daniel and W. H.)						
Gruhn, Paul, and W. Stolpner, assignors of one-third to A. C. Lieber, Boston, Mass. Gate for railway-cars	600,261	Mar. 8	1201	272	82	1468
Grundmann, Frederick W., St. Louis, Mo. Candle-holder	599,527	Feb. 22	2550	599	82	1144
Grundy, George H., Derby, and G. A. Lingard, Old Normanton, England. Device for decorating tiles or plane surfaces	603,137	Apr. 26	2688	610	83	556
Grundy, John, Jersey City, N. J. Night-robe	602,006	Apr. 5	726	155	83	137
Grunert, Alfred. (See Jonkhoff, Jan A., assignor.)						
Grunewald, Adolph, Rockford, Ill. Ice-creeper	613,445	Nov. 1	422	97	85	697
Grunow, William, Jr., assignor of one-half to Z. Goodsell, Bridgeport, Conn. Depressible-rail system for electric railways	600,527	Mar. 15	1671	381	82	1577
Grunow, William, Jr., assignor of one-half to Z. Goodsell, Bridgeport, Conn. Depressible-rail system for electrical railways	612,644	Oct. 18	1872	443 444	85	382
Grupe, Albert and W., Washington, D. C. Safety-envelop	597,974	Jan. 25	2616	611	82	558
Grupe, Wilhelm. (See Grupe, Albert and W.)						
Grush, Martin V., Baldwin, Ind. Clock-shelf	600,528	Mar. 15	1673	382	82	1578
Gruver, George F., Covington, Ky. Tripartite game-board	611,450	Sept. 27	2411	553	84	1956
Gsell, Henry B. (See Barnes, Joshua F., assignor.)						
Guarantor Electric Company. (See Ashley, Ralph, assignor.) (Reissue.)						
Guarino, Domenico, New York, N. Y. Car-fender	608,598	Aug. 9	768	177	84	827
Guasco, André, Paris, France. Formaldehyde-burner and composition of matter for making same	616,313	Dec. 20	2037	474	85	1843
Guattari, Carlo, assignor to New Motive Power Syndicate, Limited, London, England. Generation of motive power	609,430	Aug. 23	2352	554	84	1161
Gubbins, Richard R., London, England. Building circular wooden structures	603,138	Apr. 26	2689	610	83	556
Gubelmann, William S., Buffalo, N. Y. Clamp	599,039	Feb. 15	1663	393	82	954
Gubelmann, William S., Buffalo, N. Y. Crank-shaft and sprocket-wheel connection	601,415	Mar. 29	3200	722	82	1908
Gubelmann, William S., Buffalo, N. Y. Ball-bearing	605,870	June 21	1523	350	83	1679
Gue, Albert F., assignor to Gue-Bonner Company, Boston, Mass. Carpet-cleaner	601,711	Apr. 5	176	34	83	35
Gue-Bonner Company. (See Gue, Albert F., assignor.)						
Guedel, John, Indianapolis, Ind. Saw	599,329	Feb. 22	2162	513	82	1069
Guény, Joseph. (See Moulard and Guény.)						
Guernsey, James W., assignor of one-half to Z. E. Kimble, Liberty, Pa. Crane	612,413	Oct. 18	1456	351 352	85	304
Guerrant, George M., Danville, Va., assignor of two-thirds to C. O. Evans and J. M. Shepard, St. Louis, Mo. Friction lessening device and brake for propeller-shafts	605,545	June 14	876	205	83	1542
Guerrero, Jorge, and J. Ungemach, Buenos Ayres, Argentina. Dry-kiln	610,444	Sept. 6	565	124 125	84	1547
Guest, John H., assignor to L. M. Child, E. O. Achorn, R. S. York, W. L. Whitcomb, Boston, Mass., and C. H. Moore, Springfield, Vt. Electric railway	604,747	May 31	2801	641	83	1227
Guest, Theodore M., Moravia, N. Y. Wire-stretcher	604,148	May 17	1691	380	83	978
Guett, Monroe, Hartford, Conn. Switch-contact	615,665	Dec. 6	829	192	85	1576
Gugel, Gustavus A., Newport, Ky. Shear-blade	616,704	Dec. 27	2793	648	85	2007
Guidi, Filippo, Rome, Italy. Oven for treating metals	601,511	Mar. 29	3360	761 762	82	1940
Guidinger, John J., Northeim, Wis. Elevator for grain self-binders	597,847	Jan. 25	2404	559	82	517



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Guild, George, assignor to Bertsch & Co., Cambridge City, Ind. Hydraulic shearing-machine	608,195	Aug. 2	53	13	84	665
Guild, George, assignor to Bertsch & Co., Cambridge City, Ind. Bending-machine	610,585	Sept. 13	822	188	84	1213
Guild, George, and C. A. Bertsch, assignors to Bertsch & Co., Cambridge City, Ind. Punching and shearing machine	610,534	Sept. 13	819	187 188	84	1612
Guild, Samuel E., Boston, Mass. Necktie	599,177	Feb. 15	1884	446	82	993
Guiles, Daniel W., Portland, Oreg. Bicycle-gear	607,658	July 19	2087	436	84	440
Guiles, James A., Hadley, Mich. Anvil attachment	610,137	Aug. 30	3601	836	84	1417
Guiley, Milton M., Hartville, Ohio. Hearse attachment	608,519	Aug. 2	625	140	84	779
Guilford, Charles C., Boston, Mass. Musical notation	608,771	Aug. 9	1073	247	84	885
Guilfoyle, William P. (See Johnson and Guilfoyle.)						
Guillaume, Charles E., Allegheny, Pa. Iron fence	596,773	Jan. 4	565	130	82	108
Guillaume, Theodore, Mülheim-on-the-Rhine, Germany. Manufacture of flexible metallic tubes, &c	610,740	Sept. 13	1071	246	84	1665
Guillemet, François L., San Francisco, Cal., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake	606,712	July 5	141	29	84	29
Guillemet, François L., San Francisco, Cal., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake	608,599	Aug. 9	770	177	84	828
Guillemet, François L., San Francisco, Cal., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake	608,600	Aug. 9	773	177	84	828
Guinean, Thomas, Portland, Oreg. Broiler-range	615,548	Dec. 6	625	143	85	1533
Guli, Lorenzo, New York, N. Y. Window	614,266	Nov. 15	1850	428	85	1011
Gulick, Thomas H., St. Louis, Mo. Brush	606,713	July 5	143	30	84	30
Gulickson, Thina. (See Hæstrup, William, assignor.)						
Gulland, Charles, Pittsburg, Pa. Valve	608,454	Aug. 2	511	115	84	757
Gump, Alexander, assignor of one-third to J. H. and W. R. Sayers, Fletcher, Ohio. Combined harvester and thresher	616,786	Dec. 27	2927	680 681 682	85	2036
Gumphert, George A., assignor of one-half to T. Marrin, Philadelphia, Pa. Shaking-grate	600,493	Mar. 8	1602	366 367 368	82	1545
Gumpoldt, Emil, Munich, Germany. Burning compound and compounding same	616,838	Dec. 27	3010		85	2053
Gumtow, Hermann, Vienna, Austria-Hungary. Water-spraying apparatus	602,074	Apr. 12	840	182	83	171
Gunckel, Winfield O., assignor of one-fifth to G. W. Faris, Terre Haute, Ind. Air-brake valve	601,252	Mar. 29	2898	660	82	1850
Gunckel, Winfield O., assignor of one-fifth to G. W. Faris, Terre Haute, Ind. Air-brake valve	601,253	Mar. 29	2900	661	82	1851
Gunckel, Winfield O., assignor of one-fifth to G. W. Faris, Terre Haute, Ind. Air-brake valve	604,612	May 24	2551	582 632 633	83	1161
Gundelfinger, John C., Linn, Mo. Device for making lemonade	599,605	Feb. 22	2705	632 633	82	1173
Gunderman, Philip H., Chicago, Ill. Detachable coupling for lead pipes	597,497	Jan. 18	1806	418	82	385
Gundersen, Gilbert S., Dayton, Ohio. Corn-husking machine	603,844	May 10	1097	246	83	829
Gundersen, Gilbert S., Dayton, Ohio. Corn-husker	604,528	May 24	2403	547	83	1132
Gundersen, Gilbert S., Middletown, Ohio. Corn-husking machine	603,845	May 10	1098	246	83	829
Gundorph, Ferdinand, assignor of one-half to J. Schweitzer, San Francisco, Cal. Alarm-clock	611,733	Oct. 4	254	61	85	52
Gunerman, Anthony, Hoboken, and G. Schacht, Jersey City, N. J. Combing-machine	612,334	Oct. 11	1315	317 318	85	263
Gunn, Alexander. (See Henry and Gunn.)						
Gunn, H. L., et al. (See Hopper, Thomas B., assignor.)						
Gunn, John, Memphis, Tenn. Wagon-bed	613,509	Nov. 1	536	121	85	717
Gunn, John K., Utica, N. Y. Apparatus for forming pipe-molds	601,512	Mar. 29	3361	762	82	1940
Gunn, Moses W., La Salle, Ill. Combined wire-tightener and staple-puller	616,787	Dec. 27	2932	682	85	2037
Gunn, Robert W. (See Axelson and Gunn.)						
Gunn, Shelton J., Grand Rapids, Mich. Tube-cleaner	603,762	May 10	930	207	83	798
Gunning, John, Bournemouth, England. Time light-extinguisher	615,164	Nov. 29	3516	808	85	1358
Gunning, Thomas, Pittsburg, Pa. Feed-water heater and purifier	599,983	Mar. 1	561	129	82	1319
Günther, Adolf, assignor of one-half to R. Lins, Berlin, Germany. Pneumatic tire	600,781	Mar. 15	2093	479	82	1658
Gunther, William H., Owensborough, Ky. Steam-engine governor	602,578	Apr. 19	1699	286 287	83	351
Gunther, William H., Owensborough, Ky. Steam-engine governor	602,579	Apr. 19	1701	387	83	352
Gunvaldson, John G., Cyrus, Minn. Fence-gate	612,456	Oct. 18	1522	366	85	317
Guocchi, Eugenio. (See Kost and Guocchi.)						
Gurnee, Isaac Q., Butler, N. J., assignor to Butler Hard Rubber Company, New York, N. Y. Combined atomizer and syringe	601,564	Mar. 29	3441	781	82	1957
Gurnee, Isaac Q., Butler, N. J., assignor to Butler Hard Rubber Company, New York, N. Y. Atomizer	601,616	Mar. 29	3520	802	82	1972
Gurney, Henry. (See Tyrell, Alfred D., assignor.)						
Gustafson, Charles J., Sequachee, Tenn. Bronze or copper joint-ring in combination with iron or steel	614,464	Nov. 22	2215	509	85	1094
Gustafson, Elias G. (See Felsing and Gustafson.)						
Gustafson, Walfrid, New York, N. Y., assignor to American Automatic Banjo Company, of New Jersey. Picker device for stringed musical instruments	606,207	June 28	2173	499	83	1819
Gustafson, Victor A., Joliet, Ill. Telephone system	606,285	June 28	2331	540	83	1852
Gustaveson, Frank, Wabasha, Minn. Ball-bearing	602,701	Apr. 19	1931	438	83	396
Gutenkunst, William, Milwaukee, Wis. Feeder for corn-husking machines	614,859	Nov. 29	2938	674 675	85	1245
Guthrie, Alexander. (See Guthrie, Thomas and A.)						
Guthrie, George N., Gallatin, Tenn. Fruit-juice extractor	611,477	Sept. 27	2462	566 567	84	1966
Guthrie, Thomas and A., South Shields, England. Apparatus for making pneumatic tires	607,991	July 26	2709	578	84	577
Guthrie, William A., Durham, N. C. Automatic electric fire-alarm	598,508	Feb. 8	752	181	82	762
Gutmann, Julius, Berlin, Germany. Buttonhole-sewing machine	615,165	Nov. 29	3517	808 809	85	1358
Gutmann, Ludwig, Peoria, Ill. Current-collecting device	599,781	Mar. 1	184	46	82	1250
Gutmann, Ludwig, Peoria, Ill. Transformer box and hanger	606,208	June 28	2174	499	83	1819
Gutmann, Ludwig, Peoria, Ill. Alternating-current dynamo	606,863	July 5	428	92	84	85
Gutmann, Ludwig, Peoria, Ill. Electric meter	614,225	Nov. 15	1756	404	85	995
Gutmann, Ludwig, Pittsburg, Pa. Electric transformer	602,218	Apr. 12	1100	242	83	221
Gutowitz, Morris, Amityville, N. Y. Support for bicycles	613,675	Nov. 8	792	181	85	788
Guttenberg, Frederick, Brooklyn, N. Y. Water-cooler	604,748	May 31	2806	641	83	1228
Gutzkow, Hermann, Frankfort-on-the-Main, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Green-blue soluble dye and making same	613,920	Nov. 8	1232		85	871
Guy, Frederick S., London, England. Handle-bar for cycles	604,981	May 31	3181	733	83	1301
Guy, George S., Petersburg, Va. Umbrella name-and-address tag	596,873	Jan. 4	730	171	82	142
Guy, McClellan C., Scammon, Kans. Excavator	597,578	Jan. 18	1933	450	82	411



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Guyenot, Paul, Aix-les-Bains, France. Apparatus for freeing, lighting, or extinguishing gas-burners.	613,990	Nov. 8	1345	306	85	895
Guyer, Clinton, Muncy, Pa. Gas-engine	596,809	Jan. 4	623	144	82	120
Guyer, Nelson, <i>et al.</i> (See Kissell, Aaron, assignor.)						
Guyer, Nelson, J. P. Kelly, and A. Kissell, Cygnet, Ohio. Automatic cut-off for oil-tanks.	608,985	May 10	1329	305	83	875
Guyot, Antoine. (See Tirot and Guyot.)						
Gwilliam, James, and W. Jarvis, Carnegie, Pa. Self-winding plumb-bob	599,178	Feb. 15	1886	446	82	993
Gwinner, William H., Easton, Pa., assignor of one-fourth to C. J. Dull, Phillipsburg, N. J. Combined meat saw, tenderer, and chopper	608,455	Aug. 2	512	115	84	757
Gwynn, Edward F., Delaware, Ohio. Device for removing scale from boiler-tubes	597,409	Jan. 18	1644	382	82	353
Gwynn, Edward F., Delaware, Ohio. Device for removing scale from boiler-tubes	607,168	July 12	1003	218	84	211
Gwynn, Edward F., Delaware, Ohio. Boiler-tube cleaner	607,169	July 12	1004	218	84	211
H. B. Camp Company. (See Daniels, Adelbert L., assignor.)						
H. B. Sherman Manufacturing Company. (See Sherman, Howard B., assignor.)						
H. Franke Steel Range Company. (See Erben, John, assignor.)						
H. H. Babcock Company. (See Hungerford, Ernest H., assignor.)						
H. H. Palmer Company. (See Yates, Alexander, assignor.)						
H. Nicholsburg Manufacturing Company. (See Nicholsburg, Henry, assignor.)						
H. W. Butterworth & Sons Company. (See Butterworth, James, assignor.)						
H. W. Butterworth & Sons Company. (See Gadd, Charles J., assignor.)						
H. Wetter Manufacturing Company. (See Ryley, Alfred G., assignor.)						
Haarlaender, Otto J., Newark, N. J. Puzzle	605,096	June 7	51	16	83	1362
Haarvig, Charles A. O., Chicago, Ill. Order-binder	615,551	Dec. 6	629	144	85	1534
Haas, Charles. (See McGee, Augustus M., assignor.)						
Haas, Walter G., Dayton, Ohio. Knockdown hat-box	616,869	Dec. 27	3129	725	85	2077
Haas, Walter G., assignor of one-half to Dayton Paper Novelty Company, Dayton, Ohio. Paper pail	616,868	Dec. 27	3128	724	85	2076
Haas, William, Lyndon, Kans. Stovepipe-shelf	616,788	Dec. 27	2933	682	85	2037
Habermaas, Edward W., St. Louis, Mo. Sash-lock	604,982	May 31	3182	733	83	1301
Haberman, Frederick. (See Regan, Cornelius, assignor.)						
Haberman, Frederick, New York, and C. Regan, Maspeth, assignors to Haberman Manufacturing Company, New York, N. Y. Sheet-metal vessel	597,645	Jan. 18	2042	477	82	432
Haberman Manufacturing Company. (See Haberman and Regan, assignors.)						
Habermann, Emil, Michigan City, Ind. Galvanic battery	600,719	Mar. 15	1998	455	82	1639
Habermann, George J., assignor of three-fifths to A. E. Nesper and A. B. Conkey, Cleveland, Ohio. Measuring device for liquids	599,704	Mar. 1	53	12	82	1226
Habermann, George J., assignor to A. E. Nesper, A. B. Conkey, and H. Hutchings, Cleveland, Ohio. Bung and tube	614,465	Nov. 22	2216	510	85	1095
Habhegger, Albert C. (See Habhegger, Charles G. and A. C.)						
Habhegger, Charles G. and A. C., Milwaukee, Wis. Vehicle running-gear	613,141	Oct. 25	2725	643	85	569
Hachenberg, Louis, New York, N. Y. Marine screw propulsion	598,421	Feb. 1	617	151 152	82	720
Hachenberg, Louis, assignor to E. F. Wattson and L. Sandford, New York, N. Y. Scale.	605,638	June 14	1069	245 246	83	1576
Hacherelle, Louis E., assignor to J. C. Cochran, New York, N. Y. Form-lining for dress-waists	598,706	Feb. 8	1103	264	82	829
Hack, Alfred F., Melbourne, Victoria. Arch for furnaces of locomotives	611,169	Sept. 20	1852	427	84	1833
Hacker, Charles E., Brunswick, Me. Road-making machine	603,139	Apr. 26	2690	611	83	556
Hacker, Georg, Cannonsburg, Pa. Broom-case	608,671	Aug. 9	909	208	84	855
Hackett, John C., St. Louis, Mo. Lifting-jack	604,583	May 24	2507	570	83	1152
Hackett, William P., Winchester, Ky. Coin-controlled apparatus for dispensing liquids.	604,318	May 17	2008	450	83	1040
Hackmann, Frederick, assignor to Automatic Indicator Company, Milwaukee, Wis. Indicator	616,417	Dec. 20	2231	521	85	1880
Hackney, I. M., <i>et al.</i> (See Brooks, Milton G., assignor.)						
Hackney, John, Norfolk, Va. Electrical alarm-gage	600,866	Mar. 22	2240	510	82	1698
Hadaway, John B., Brockton, Mass. Stitch separating and indenting machine	609,100	Aug. 16	1756	418 419	84	1024
Hadaway, John B., Brockton, Mass. Shoe-sewing machine	616,314	Dec. 20	2038	474 475	85	1843
Hadaway, John B., Brockton, Mass. Shoe-sewing and seam-finishing machine	616,315	Dec. 20	2041	475	85	1844
Hadaway, John B., Brockton, Mass., assignor, by mesne assignments, to Gem Flexible Insole Company, of Maine. Insole-reinforcing machine	603,763	May 10	932	207 208 209	83	798
Hadaway, John B., Brockton, Mass., assignor, by mesne assignments, to Gem Flexible Insole Company, of Maine. Insole-reinforcing machine	603,764	May 10	938	209 210	83	799
Hadaway, John B., Brockton, assignor to Gem Flexible Insole Company, Boston, Mass. Insole-reinforcing machine	614,860	Nov. 29	2939	675 676	85	1245
Hadaway, John B., Brockton, and T. H. Anderson, Lynn, Mass.; said Anderson assignor to said Hadaway. Welt	600,867	Mar. 22	2241	511	82	1699
Haddock, Jacob W. (See Foss, Robert F., assignor.)						
Haddow, William. (See Hunt and Haddow.)						
Haddox, George W., Winchester, Va. Measuring cabinet	616,316	Dec. 20	2044	475 476	85	1844
Hadfield, Joseph, New York, N. Y., assignor to A. M. and L. R. Fay, East Orange, N. J. Elevator	613,627	Nov. 1	724	169	85	755
Hadfield, Joseph, New York, N. Y., assignor to A. M. and L. R. Fay, East Orange, N. J. Clutch or brake mechanism	613,628	Nov. 1	726	169	85	755
Hadley, William B., New York, N. Y. Cover for books, &c	614,302	Nov. 15	1903	439	85	1021
Hadlich, Henry J. (See Wagner, George, assignor.)						
Hadly, Charles F., <i>et al.</i> (See Gearing, Charles M., assignor.)						
Hadly, Charles O., <i>et al.</i> (See Gearing, Charles M., assignor.)						
Hadly, Charles O., McKeesport, Pa. Combined shelf and table	602,321	Apr. 12	1271	281	83	256
Hadsall, Amos, Mapleton, Oreg. Device for converting motion	604,826	May 31	2923	669	83	1251
Hadsell, Julius T., <i>et al.</i> (See Eckerson, David I., assignor.)						
Hadsell, Porter R., <i>et al.</i> (See Eckerson, David I., assignor.)						
Haebler, Anton J., assignor of one-half to C. A. Stockwell, Baltimore, Md. Swinging gas-bracket	612,772	Oct. 18	2097	497	85	425
Haefner, Carl, assignor to American Racker Company, Chicago, Ill. Apparatus for charging receptacles for liquor with gas or air	615,166	Nov. 29	3523	810	85	1359
Haegelin, Richard A., St. Joseph, Mo. Combined pencil-holder, spectacle-case, &c	609,230	Aug. 16	1995	473	84	1072
Haenichen, Adolph, Paterson, N. J. Sash-holder	600,987	Mar. 22	2438	557	82	1735
Haenichen, Adolph, Paterson, N. J. Sash-holder	601,958	Apr. 5	657	138	83	123
Haenichen, Adolph, Paterson, N. J. Sash-fastener	601,959	Apr. 5	659	138	83	124
Haeseler, Charles H. (See Keller and Haeseler.)						
Haeseler, Francis J., U. S. Navy, assignor of one-half to C. H. Haeseler Company, Philadelphia, Pa. Rotary engine	615,981	Dec. 13	1381	323	85	1695



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Haeske, Charles M., South Bend, Ind. Dumping-wagon	600,071	Mar. 1	811	186 187	82	1373
Haestrup, William, assignor of one-third to T. Gulickson, West Superior, Wis. Printer's case	616,231	Dec. 20	1891	436 437	85	1813
Hafelfinger, Frederick, New York, N. Y. Fire-escape	611,734	Oct. 4	256	61	85	52
Hafely, Alfred C., J. Redlefsen, and C. A. Happe, Brooklyn, N. Y. Method of and apparatus for veneering with celluloid covers and corners of books, boxes, &c	601,214	Mar. 22	2818	644	82	1808
Hafer, Benjamin F., Oklahoma, Okla. Ter. Grain-drill	612,721	Oct. 18	2002	475	85	407
Hafer, Charles. (See Weingard, Frederick F., assignor.)						
Haffcke, Charles, Baltimore, Md. Burner	606,136	June 21	2038	466 467	83	1774
Haffey, James F. (See Baron and Haffey.)						
Haffey, James F., assignor of one-half to E. C. Frost, Tiffin, Ohio. Wire fence	602,444	Apr. 19	1481	338	83	311
Hafgar, Magnus J., Chicago, Ill. Type-writer desk	600,580	Mar. 15	1763	402 403	82	1593
Hafner, George J., Rochester, N. Y. Truck	615,448	Dec. 6	432	102	85	1496
Hagan, Elijah J., assignor of one-half to R. C. Ocheltree, Bayard, Iowa. Screen-door fastening	604,468	May 24	2300	523	83	1114
Hagan, Joseph A., Janesville, Wis. Adjustable staging	598,289	Feb. 1	395	93	82	676
Hagan, Leo S., Brewer, Mo. Fruit-picker	605,419	June 7	696	155	83	1487
Hagberg, John A. (See Sonander, Anderson, assignor.)						
Hagel, Joseph, Mount Sterling, Ill. Fire-escape	598,370	Feb. 1	517	125	82	700
Hagemann, Paul, and H. Pasler, Stettin, Germany. Spark-catcher	603,378	May 3	228	51	83	644
Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y. Starching-machine	606,411	June 28	2568	594 595 219	83	1897
Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y. Ironing-machine	612,099	Oct. 11	906	220 221	85	188
Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y. Collar-pressing machine	613,268	Nov. 1	75	18	85	631
Hagen, Ferdinand J., assignor of one-half to B. H. Homan, New York, N. Y. Wave-motor	616,615	Dec. 27	2601	603 604	85	1970
Hagen, Frederick, Belvidere, Ill. Corn-shredder	613,676	Nov. 8	793	182	85	789
Hagen, Henry J., Newark, N. J. Device for reproducing sound	614,168	Nov. 15	1649	379	85	975
Hagen, Michael E., Frankfort, N. Y. Artificial leg	597,465	Jan. 18	1756	407	82	375
Hager, Carl M., Worcester, Mass. Egg breaking and measuring utensil	603,635	May 10	727	162	83	758
Hager, Charles A., et al. (See Flickinger, George, assignor.)						
Hager, Charles E. O., assignor of one-half to W. P. Whitel, North Baltimore, Ohio. Umbrella	601,096	Mar. 22	2612	596	82	1769
Hagerty, Thomas F., San Francisco, Cal., assignor of one-half to C. E. Hooper, Baltimore, Md. Metallic sheathing	615,449	Dec. 6	433	102	85	1496
Hagey, H. Given. (See Schneider, John B., assignor.)						
Haggerty, George E., Springwells, Mich. Hydrocarbon-burner	597,197	Jan. 11	1288	301	82	267
Haggerty, James H. (See Kennelly, John J., assignor.)						
Haggstrom, Charles J., Warren, Pa. Permutation-lock	612,335	Oct. 11	1317	318	85	264
Hahl, Augustus L., Chicago, Ill. Pneumatic clock	598,066	Jan. 25	2770	645 646	82	588
Hahn, Charles H., and C. E. Salewsky, New Haven, Conn. Supporting-bracket	609,933	Aug. 30	3251	759	84	1347
Hahn, Edward, Columbus, Ohio. Device for forming tufted upholstery	610,741	Sept. 13	1072	246	84	1665
Hahner, Elizabeth, et al. (See Wascinski, Alexander, assignor.)						
Haigh, Armitage, Huddersfield, England, and A. Borios, Vevey, Switzerland. Carding-engine	610,138	Aug. 30	3602	836	84	1418
Haigh, Henry B., assignor to Iron Clad Manufacturing Company, New York, N. Y. Milk-can	607,433	July 19	1501	319	84	323
Haigh, Samuel, Cincinnati, Ohio. Valve	599,059	Feb. 15	1691	401	82	959
Haight, Charles W., Mount Vernon, N. Y. Device for setting saws	599,984	Mar. 1	563	130	82	1320
Haight, William E., McMinnville, Oreg. Neck-yoke	603,562	May 3	586	130	83	714
Hailer, John G., Philadelphia, Pa. Power-transmitting device	600,072	Mar. 1	813	187	82	1373
Hain, Ralph B., assignor to Monitor Vapor Engine and Power Company, Grand Rapids, Mich. Multiple-cylinder vapor-engine	599,653	Feb. 22	2798	651	82	1193
Hain, Ralph B., assignor to Monitor Vapor Engine and Power Company, Grand Rapids, Mich. Igniter for gas-engines	607,992	July 26	2711	578	84	578
Haines Electric Company. (See Haines, John H. J., assignor.)						
Haines, Enoch, and R. Monahan, Lakewood, Ohio. Bicycle	614,101	Nov. 15	1531	351	85	953
Haines, John F., Freeport, Pa. Soda-water apparatus	602,257	Apr. 12	1163	255 256	83	234
Haines, John H. J., New York, N. Y., assignor to Haines Electric Company, Jersey City, N. J. Electric-arc lamp	603,687	May 10	809	178 179	83	775
Haines, John H. J., New York, N. Y., assignor to Haines Electric Company, Jersey City, N. J. Electric-arc lamp	607,589	July 19	1957	406	84	417
Haines, Jones & Cadbury. (See Sharp and Grantland, assignors.)						
Haines, Jones & Cadbury Company. (See Grantland, John W., assignor.)						
Haines, Lewis B., assignor of one-third to E. D. Bradney, Columbus, Kans. Washing-machine	612,162	Oct. 11	1015	244	85	208
Haines, Mary E. (See Wells, Cora V., assignor.)						
Haines, Samuel A., Garrett, Tex. Wrench	609,670	Aug. 23	2808	655	84	1247
Hainline, Charles G., Anderson, Cal. Combination cushion and pneumatic boot or shoe heel	615,167	Nov. 29	3525	810	85	1359
Haken, Eduard von, Charlottenburg, Germany. Coin-freed automatic machine	606,008	June 21	1800	414	83	1730
Halblaub, George C., Chicago, Ill. Machine for printing on wood	597,975	Jan. 25	2617	611 612 613	82	558
Halbert, William G., Westville, Ill. Mining-machine	607,170	July 12	1006	219	84	212
Haldeman, B. C., et al. (See Barrett, Albert, assignor.)						
Haldeman, John R., Springfield, Mo. Gate-hinge	605,420	June 7	697	155	83	1487
Halden, Frank E., Winthrop, Minn. Display-cabinet	606,714	July 5	144	30	84	30
Hale, Caleb D., Alpha, Md. Music-book holder	606,924	July 5	513	112	84	102
Hale, Frederick M., J. Deas, and J. B. Reavil, London, England. Percussion-fuse for explosive projectiles or shells	616,317	Dec. 20	2046	476	85	1845
Hale, George C., assignor to M. E. Lawrance, Kansas City, Mo. Fire-extinguisher	598,924	Feb. 15	1455	348	82	912
Hale, George C., assignor to M. E. Lawrance, Kansas City, Mo. Fire-extinguisher	599,330	Feb. 22	2164	514	82	1069
Hale, Johnson, et al. (See Roach, Henry B., assignor.)						
Hale, Joshua, et al. (See Cooper, William, assignor.)						
Hale & Kilburn Manufacturing Company. (See Norcross, William M., assignor.)						
Hale, Orlando C. (See Huff and Hale.)						
Hale, William M., Fredericktown, Mo. Broom-head	615,065	Nov. 29	3350	768	85	1325
Haley, James H., Henrietta, Mich. Seed-planter	596,997	Jan. 11	949	225	82	201



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Haley, John J. (See Williams, Henry F., assignor.)						
Haley, William, <i>et al.</i> (See Henning, George, assignor.)						
Haley, William, assignor to National Mold and Casting Company, Beaver Falls, Pa. Cool- ing-table for glass-molds.	602,399	Apr. 12	1405	316 317	83	283
Haley, William, assignor to National Mold and Casting Company, Beaver Falls, Pa. Glass-press	616,664	Dec. 27	2715	630 631	85	1993
Halferty, Isa. (See Murphy and Halferty.)						
Halford, Harry S., London, England. Railway system.	615,982	Dec. 13	1383	324 325	85	1695
Halfpenny, Martin, assignor to R. D. Scott, Pontiac, Mich. Fifth-wheel.	606,864	July 5	431	92	84	85
Halin, John, assignor of one-half to J. Benson and C. Gabrielson, Kansas City, Mo. Car- window	598,925	Feb. 15	1457	348	82	912
Hall, Albert, Brooklyn, N. Y. Button-back	604,882	May 31	3024	694	83	1271
Hall, Albert F., Boston, Mass., assignor to Geo. F. Blake Manufacturing Company, of New Jersey. Direct-acting steam-pump	604,613	May 24	2553	583	83	1162
Hall, Albert H., assignor of two-thirds to L. Zimmer, New York, N. Y. Check-valve for gas-pipes	612,414	Oct. 18	1458	352	85	305
Hall, Alexander W., New York, N. Y. Bicycle	598,246	Feb. 1	305	70	82	660
Hall, Alexander W., New York, N. Y. Bicycle	611,429	Sept. 27	2375	546	84	1948
Hall, Allan T., Willerby, England. Paint	597,770	Jan. 25	2257		82	489
Hall, Asa H., Traverse City, Mich. Machine for cutting plates from wood	598,085	Feb. 1	26	7	82	608
Hall, Cary D., and G. H. Lennon, Baltimore, Md. Handle for sheet-metal vessels.	600,689	Mar. 15	1949	444	82	1629
Hall, Charles A., <i>et al.</i> (See Casey, Augustin F., assignor.)						
Hall, Cofran I., assignor to Cahill & Hall Elevator Company, San Francisco, Cal. Ap- paratus for operating elevators.	605,044	May 31	3290	755	83	1322
Hall, Cofran I., assignor to Cahill & Hall Elevator Company, San Francisco, Cal. Ele- vator	612,722	Oct. 18	2004	475 476	85	407
Hall, Daniel, and J. H. Kay, Ashton-under-Lyne, England. Humidifying air.	602,745	Apr. 19	1997	452	83	408
Hall & Donahue Coffin Company. (See Donahue, John, assignor.)						
Hall, Edgar J., St. Louis, Mo. Street-indicator	602,746	Apr. 19	1997	453	83	408
Hall, Edward. (See Smalley, James, assignor.)						
Hall, Edward, Worcester, Mass. Cloth-folding machine	604,749	May 31	2807	641	83	1228
Hall, Edward S., New York, N. Y. Adjustable handle-bar for bicycles	597,801	Jan. 25	2331	544	82	502
Hall, Edward S., New York, N. Y. Plunger brake-head	601,651	Apr. 5	48	10	83	10
Hall, Edward S., New York, N. Y. Bicycle-brake	603,140	Apr. 26	2091	611	83	557
Hall, Elijah C., Braintree, Mass. Heater	604,859	May 31	2988	685 686	83	1263
Hall, Erwin A., Melrose, Mass. Bed or mattress supporting frame	612,336	Oct. 11	1320	318	85	264
Hall, Ezra M., assignor of one-half to F. A. and V. A. Bigelow, La Crosse, Wis. Com- bined cigar-tip cutter and match-safe	607,365	July 12	1363	291	84	280
Hall, Francis B., Plattsburg, N. Y. Printing-ink	606,542	June 28	2807		83	1945
Hall, Frank E., Quincy, Mass. Elastic tire	604,042	May 17	1490	335	83	940
Hall, Frank E., Wollaston, assignor to C. L. Ireson, Boston, Mass. Steam-packing com- position	597,357	Jan. 11	1548		82	318
Hall, Fred E., Philadelphia, Pa. Thread-package	597,165	Jan. 11	1236	291	82	256
Hall, Fred J., Wallingford, Conn. Tool-handle	607,115	July 12	901	195	84	193
Hall, George, Richmond, Va. Door-holder	610,399	Sept. 6	494	108	84	1534
Hall, George A., Portland, Me. Trolley	597,848	Jan. 25	2405	560	82	518
Hall, George A., assignor of one-half to G. E. Dayton, New York, N. Y. Gas-burner	603,219	Apr. 26	2808	641	83	578
Hall, George W., <i>et al.</i> (See Casey, Augustin F., assignor.)						
Hall, H. L., <i>et al.</i> (See Clark, Byron, assignor.)						
Hall, Harry, Huntingdon, Pa. Refrigerator	616,705	Dec. 27	2794	648	85	2008
Hall, Herbert R., Brooklyn, N. Y. Sanitary bowl	604,983	May 31	3183	733	83	1301
Hall, Hiram P., assignor to Repauno Chemical Company, Wilmington, Del. Cartridge- loading machine	601,128	Mar. 22	2678	613 614	82	1782
Hall, Israel K., Pittsburg, Pa. Gas-well cleaner	600,529	Mar. 15	1675	382	82	1578
Hall, John J., Slough, assignor to G. W. Dawes, London, England. Telegraph-cable.	600,073	Mar. 1	814	187	82	1374
Hall, John S., assignor of five-sixths to R. Hall and C. W. Clark, Winnipeg, Canada. Dumping-wagon	613,198	Oct. 25	2815	665	85	588
Hall, Joseph, Leeds, England. Machine for treating hides, skins, or leather	599,331	Feb. 22	2166	514 515	82	1069
Hall, Joseph, Leeds, England. Finishing-roll	599,469	Feb. 22	2450	576	82	1124
Hall, Joseph, Leeds, England. Machine for treating hides, skins, or leather	616,570	Dec. 27	2524	584 585	85	1957
Hall, Joseph J., Los Angeles Cal. Lock for bicycles	599,143	Feb. 15	1827	433	82	983
Hall, Morgan P., Grayville, Ill., and D. Heilman; said Heilman assignor to G. D. Heil- man, Evansville, Ind. Threshing-machine	611,903	Oct. 4	540	131	85	107
Hall, Moses L., assignor of one-half to F. Ferdig, Knobel, Ark. Bicycle-frame	612,337	Oct. 11	1321	318	85	265
Hall, Olive E., Oconto, Wis. Mattress	604,043	May 17	1491	335	83	940
Hall, Orlando C., Wilkes-Barré, Pa. Manufacture of carriage-axles	602,940	Apr. 26	2351	536	83	492
Hall, Osborn B., Malden, Mass. Tire	604,750	May 31	2808	642	83	1229
Hall, Robert, <i>et al.</i> (See Hall, John S., assignor.)						
Hall, Robert F., and H. J. T. Piercy, Birmingham, England. Machinery for gaging and sorting steel balls, &c	616,789	Dec. 27	2934	682 683	85	2037
Hall, Royal L., Otsego, Wis. Brush	611,249	Sept. 27	2009	463	84	1882
Hall, W. P., <i>et al.</i> (See Wilson, Robert A., assignor.)						
Hall, Willard L., Spokane, Wash. Educational or advertising fan	598,509	Feb. 8	753	182	82	762
Hall, William A., Bellows Falls, Vt. Waterproofing compound	609,200	Aug. 16	1922		84	1056
Hall, William H., assignor of one-half to J. Tozer, Newton, N. J. Lacer	611,119	Sept. 20	1764	404	84	1816
Hallbauer, Ernst M., Chicago, Ill. Can	603,817	May 10	1041	232	83	820
Halle, Hiram J., Cleveland, Ohio. Hook and eye	600,946	Mar. 22	2371	539	82	1723
Hallé, Jacques, Paris, France. Moving way or stair for transporting persons and goods.	602,008	Apr. 5	728	155 156	83	138
Hallenbeck, Willard A., Hudson, N. Y. Puzzle	602,219	Apr. 12	1101	242	85	222
Halles, James. (See Fredman, Charles, assignor.)						
Hallett, Samuel I., Aspen, Colo., assignor of one-half to D. M. Hyman, Cincinnati, Ohio. Ore-concentrator	609,804	Aug. 30	3028	709	84	1303
Hallett, Samuel I., Aspen, Colo., assignor of one-half to D. M. Hyman, Cincinnati, Ohio. Ore-concentrator	614,322	Nov. 15	1953	451	85	1032
Halley, John R., Nashville, Iowa. Churn	599,332	Feb. 22	2169	515	82	1069
Halley, Walter C., Halley, Ark. Cattle-guard	602,075	Apr. 12	843	182 183	83	171
Hallidie, Andrew S., San Francisco, Cal. Device for transporting and weighing cane, &c.	597,904	Jan. 25	2491	581	82	533
Hallidie, Andrew S., San Francisco, Cal. Grip-pulley	610,353	Sept. 6	407	87	84	1518
Halligan, Samuel, assignor of two-thirds to C. A. Dunham and J. B. Mayo, Perth Amboy, N. J. Bicycle toe-clip	596,810	Jan. 4	627	145	82	121



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hallock, Daniel E. (See Hallock, Daniel Y. and D. E.)						
Hallock, Daniel Y., Southold, N. Y., and D. E. Hallock, York, Pa. Weeder	600,782	Mar. 15	2094	479	82	1658
Hallock, Lee T., Danbury, Conn. Hat-packing ring	603,445	May 3	350	78	83	667
Hallowell, William H., Philadelphia, Pa. Fire-support for grates	599,075	Feb. 15	1715	407	82	964
Hallstrom, Sven M., <i>et al.</i> (See Reid, Robert, assignor.)						
Hallwood Cash Register Company. (See McCormick, John H., assignor.)						
Halm, Gust, and G. Bodine, Minneapolis, Minn. Currycomb	612,843	Oct. 25	2252	538	85	474
Halperin, Robert L., Chicago, Ill. Dental jaw-brace	606,781	July 5	282	58	84	56
Halsey, Pedro D., New York, N. Y. Trousers-leg stretcher	611,841	Oct. 4	434	103	85	86
Halsted, David F., <i>et al.</i> (See Murphy, John M., assignor.)						
Halsted, David F., Brooklyn, N. Y. Knit fabric for underwear, &c	602,702	Apr. 19	1933	439	83	396
Hclton, Thomas, Philadelphia, Pa. Lingo for looms	598,865	Feb. 8	1350	326	82	876
Halvorsen, Nels, assignor to Stoughton Wagon Company, Stoughton, Wis. Sled	612,385	Oct. 11	1400	338	85	280
Halvorson, Lars, Wilmar, Minn. Explosive-engine	600,147	Mar. 8	1007	225 226	82	1432
Ham, Edwin W., Worcester, Mass. Telephone system	605,097	June 7	53	16, 17	83	1362
Ham, J. D., <i>et al.</i> (See James, Will S., assignor.)						
Ham, John, <i>et al.</i> (See Hanson, Joseph, assignor.)						
Ham, Joseph S., Portland, Me. Binder and sheet	614,386	Nov. 15	2068	476	85	1054
Ham, M. M. (See Allen, Jot S., assignor.)						
Ham, Orland S. (See Frost, Walter E., assignor.)						
Hamalian, George H., assignor of one-third to G. G. Baronian, Paterson, N. J. Blind-slat operating and locking device	598,600	Feb. 8	912	219	82	794
Hamann, Carl H. O., Bergedorf, Germany. Sled-propeller	612,723	Oct. 18	2007	476	85	408
Hamar, William T., Atlanta, Ga. Air-brake	613,142	Oct. 25	2726	644	85	569
Hamar, William T., and C. G. Arthur, Atlanta, Ga. Safety appliance for air-brake couplings	600,641	Mar. 15	1851	423	82	1611
Hamblyn, Stephen M., Taunton, Mass., assignor of three-fourths to W. H. Goldsmith, Central Falls, R. I. Loom-shuttle	603,141	Apr. 26	2694	611	83	557
Hamblyn, Stephen M., Taunton, Mass., assignor of three-fourths to W. H. Goldsmith, Central Falls, R. I. Loom-shuttle	603,603	May 3	656	146	83	729
Hambly, George, <i>et al.</i> (See Folwell, Philip C., assignor.)						
Hamburg, Eugene F., Rochester, N. Y. Cigar-box	605,421	June 7	698	155	83	1487
Hammetman, Cornelius, Paterson, N. J. Clothes-stick	607,366	July 12	1366	291	84	281
Hamel, Albert H., and A. N. Hibbert, De Soto, Mo.; said Hibbert assignor to said Hamel. Orthopedic appliance	604,044	May 17	1492	335	83	940
Hamel, Louis, Gardner, Mass. Can-opener	601,139	Mar. 22	2683	614 615	82	1783
Hamerschlag, Arthur A., and T. H. Price, New York, N. Y. Cotton-picking machine	602,076	Apr. 12	844	183 184	83	171
Hamfeldt, George K., Menand's, N. Y. Car-coupling	599,899	Mar. 1	433	95	82	1295
Hamfeldt, George K., Menand's, N. Y. Device for opening knuckles of car-couplings	599,900	Mar. 1	434	96	82	1296
Hamfeldt, George K., Menand's, N. Y. Car-coupling	600,690	Mar. 15	1950	444	82	1629
Hamfeldt, George K., Menand's, N. Y. Mechanism for supporting coupling-pins	615,168	Nov. 29	3526	810 811	85	1360
Hamfeldt, George K., Albany, N. Y. Salt or pepper shaker	600,262	Mar. 8	1202	273	82	1468
Hamilton, Alpheus A., Philadelphia, Pa. Tangled-grain separator for harvesting-machines	606,137	June 21	2039	467	83	1775
Hamilton, Carrie S., Terra Cotta, D. C. Securer for doors or windows	596,501	Jan. 4	62	14	82	15
Hamilton, Cassius M. (See Thomas and Hamilton.)						
Hamilton, Edgar E., Berlin, Conn. Shipping box or crate	604,388	May 24	2139	480	83	1085
Hamilton, Frank. (See Madlehner and Hamilton.)						
Hamilton, George W. N., Albert Park, Victoria. Enamel paint	614,050	Nov. 8	1433		85	912
Hamilton, Henry C., <i>et al.</i> (See Brengman, John, assignor.)						
Hamilton, Hugh, Rochester, N. Y. Card-indexing file and locking mechanism	606,286	June 28	2334	540 541	83	1853
Hamilton, John C., <i>et al.</i> (See Miller, John F., assignor.)						
Hamilton, John L., Jr., Hoopeston, Ill. Adjustable handle-bar	604,389	May 24	2140	481	83	1085
Hamilton, Jonathan R., assignor of one-half to C. S. Emery and A. J. Marks, Toledo, Ohio. Thermal dilator	612,724	Oct. 18	2008	477	85	408
Hamilton, Minnie. (See Madlehner and Hamilton, assignors.)						
Hamilton, Ninian B., San Antonio, Tex. Boiler-flue cleaner	611,904	Oct. 4	541	131	85	108
Hamilton, Richard F., New York, N. Y. Portable seesaw	614,948	Nov. 29	3122	715	85	1283
Hamilton, William D., Allegheny, Pa. Box	613,083	Oct. 25	2547	606	85	534
Hamilton, William D., Whiteinch, Scotland. Boiler or other furnace	614,102	Nov. 15	1532	351 352	85	953
Hamilton, William M., Clinton, Ind. Auger-twisting machine	611,120	Sept. 20	1765	404 405	84	1816
Hamilton, William T., Allegheny, Pa. Automatic cut-off for air-brake apparatus	613,034	Oct. 25	2548	606	85	534
Hamm, Phillip, and J. W. Pertz, Elwood, Ind. Bottle-washer	614,861	Nov. 29	2944	676	85	1246
Hammann, Edward, Brooklyn, N. Y., and L. M. Hooper, Rutherford, N. J., assignors to J. L. Mott Iron Works, New York, N. Y. Needle-bath	598,987	Feb. 15	1573	373	82	935
Hammann, Edward, Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Basin-fixture	603,727	May 10	875	194	83	787
Hammarstrom, Olaf, Worcester, Mass. Clothes-washing machine	608,257	Aug. 2	151	38	84	688
Hammel, Louis, assignor to M. Hammel, Detroit, Mich. Burial-casket	614,051	Nov. 8	1434	330	85	913
Hammel, Margaret. (See Hammel, Louis, assignor.)						
Hammell, Cyrus R., Decatur, Ind. Steam-engine valve	596,702	Jan. 4	441	100	82	86
Hammell, James, Jr. (See Platt, Patterson, and Hammell.)						
Hammer, Conrad, Buffalo, N. Y. Tap-hole bushing	608,196	Aug. 2	54	13	84	665
Hammer, Hans O. (See Nelson, Charles T., assignor.)						
Hammer, John H., Allegheny, Pa. Projectile	603,466	May 3	401	90	83	678
Hammer, Robert E., Philadelphia, Pa. Back-pedaling brake	600,783	Mar. 15	2096	480	82	1658
Hammer, Thorvald F., Branford, Conn. Pipe-joint and union	605,098	June 7	55	17	83	1363
Hammer, Willie A., Fairlie, Tex. Axle-repairing apparatus	603,636	May 10	727	163	83	758
Hammerle, Paul W., Hastings, Minn. Insect-exteriorator	612,035	Oct. 11	792	195	85	166
Hammesfahr, Ernst, Foehe, Germany. Pocket-corkscrew	610,530	Sept. 13	726	164	84	1595
Hammock Oil Can Company. (See Atkinson, Henry C., assignor.)						
Hammon, James, <i>et al.</i> (See Green, Casper, assignor.)						
Hammond, Anselm C., Jr., Alameda, and F. Weegmann, San Francisco, Cal., assignors to California Prepayment Meter Company, of California. Coin-controlled delivery apparatus	614,103	Nov. 15	1533	352 676	85	953
Hammond, Charles P., Americus, Ga. Railway-car brake	614,862	Nov. 29	2946	677	85	1246
Hammond, Frank, Paris, Canada. Bicycle-brake	598,866	Feb. 8	1351	326	82	876
Hammond, Grant, San Francisco, assignor of one-half to T. Flint, Jr., San Juan, Cal. Flux for soldering aluminium	598,340	Feb. 1	469		82	690



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Hammond, Grant, San Francisco, assignor of one-half to T. Flint, Jr., San Juan, Cal. Aluminium-solder.....	598,341	Feb. 1	470	-----	82	690
Hammond, John, Buena Vista, Ohio. Safety-bridle.....	608,672	Aug. 9	910	209	84	855
Hammond, Lorenzo T., assignor to J. A. Peters, Mashpee, Mass. Berry separator and cleaner.....	600,784	Mar. 15	2097	480	82	1658
Hammond, Myron B., Bridgeport, Conn. Garment-supporter.....	605,225	June 7	313	72	83	1411
Hammond, Robert A., <i>et al.</i> (See Hammond, William E., assignor.)						
Hammond, Robert A., Sandwich, Mass. Wire rope or hawser.....	608,673	Aug. 9	911	209	84	855
Hammond, Robert A., assignor of one-half to G. T. McLaughlin, Sandwich, Mass. Explosive oil-carrying shell.....	600,581	Mar. 15	1766	403	82	1594
Hammond, Theodore C. (See Forth, Charles, assignor.)						
Hammond Type Writer Company. (See Pratt, John, assignor.)						
Hammond, W. R. (See Rochwite, August, assignor.)						
Hammond, William, assignor of one-half to W. Muir, Warren, Pa. Water-tube boiler.....	599,234	Feb. 15	1970	467 468	82	1009
Hammond, William E., Onset Bay, assignor of two-thirds to R. A. Hammond and G. T. McLaughlin, Sandwich, Mass. Locking device for steering apparatus.....	610,485	Sept. 6	642	144	84	1561
Hammond, William S., St. John, Canada. Puzzle.....	612,130	Oct. 11	958	231	85	197
Hammonds, James M. (See Garland, Charles, assignor.)						
Hamp, Franz A., Terre Haute, Ind. Vehicle-tire.....	596,811	Jan. 4	628	145	82	121
Hampel, Ernst, Haunold, Germany. Potato-digging machine.....	605,871	June 21	1524	351	83	1680
Hampshire, Edmund A., Pittsburg, Pa. Ironing-board.....	599,962	Mar. 1	532	121	82	1313
Hampson, William, London, England. Refrigerating apparatus.....	607,849	July 26	2453	521	84	528
Hampton, Calvin G., Ryde, Cal. Draft-regulator for plows.....	609,187	Aug. 16	1898	451	84	1051
Hampton, John A., Norwood, Mo. Stove.....	599,559	Feb. 22	2612	612	82	1156
Hamren, Joseph L., Moville, Iowa. Loading or unloading machine.....	604,390	May 24	2142	481	83	1085
Hamrick, Harry M., Philadelphia, Pa. Burner.....	613,921	Nov. 8	1232	280	85	871
Hamrick, Harry M., Philadelphia, Pa. Burner.....	613,922	Nov. 8	1234	280	85	872
Hamrick, Harry M., and W. S. Miller, Philadelphia, Pa. Burner.....	613,649	Nov. 1	753	173	85	760
Hamsley, Millard F., New York, N. Y. Apparatus for roasting coffee-berries.....	616,790	Dec. 27	2937	684 685	85	2037
Hance, Anthony M., Philadelphia, Pa. Display-box.....	604,190	May 17	1772	399	83	995
Hance Bros. & White. (See Richards, Emanuel L., assignor.)						
Hanckel, J. E. M. (See Wentworth, Charles C., assignor.)						
Hancock, Eddie W., Epping, Ga. Car-axle lubricator.....	608,329	Aug. 2	296	65	84	714
Hancock, George, Providence, R. I. Safety-brake for elevators.....	604,247	May 17	1872	420	83	1013
Hancock, George, Providence, R. I. Safety-brake for elevators.....	605,820	June 14	1401	321	83	1638
Hancock, Henry J., New York, N. Y. Wrench.....	604,391	May 24	2144	482	83	1086
Hancock, Henry L. (See Hancock, Henry R., H. L., and L. G.)						
Hancock, Henry R., H. L., and L. G., Moonta Mines, South Australia. Rock-drill.....	603,529	May 3	539	118 119	83	704
Hancock Inspirator Company. (See Park, William R., assignor.)						
Hancock Inspirator Company. (See Park and Williston, assignors.)						
Hancock, John C. (See Hancock and Scholes.)						
Hancock, Layton Y. (See Connett, Matthew F., assignor.)						
Hancock, Leigh G. (See Hancock, Henry R., H. L., and L. G.)						
Hancock, Parker C. (See Griffin, George W., assignor.)						
Hancock, William and J. C., and E. Scholes, Hollinwood, assignors of two-fifths to J. E. Lees and F. N. Tweedale, Oldham, England. Elastic wheel-tire.....	605,546	June 14	878	206	83	1542
Hancock, William D., Coffeyville, Kans. Shoestring-holder.....	604,917	May 31	3089	710	83	1288
Hand, August, Cleveland, Ohio. Billiard-table.....	605,872	June 21	1526	351	83	1680
Hand, Harry W., assignor to Williamson Brothers Company, Philadelphia, Pa. Condenser, distiller, and feed water heater.....	596,874	Jan. 4	732	171 172	82	143
Hand, Juan F., assignor of one-half to J. M. Harris, Des Moines, Iowa. Apparatus for purifying water.....	615,846	Dec. 13	1137	266	85	1648
Handiges, Philip T. (See Simpson and Handiges.)						
Handiges, Philip T., Detroit, Mich. Car-coupling.....	604,934	May 31	3112	715	83	1288
Handover, Charles M., New York, N. Y. Clothing-protector for bicycles.....	609,508	Aug. 23	2505	586	84	1189
Handshy, Henry M., Chicago, Ill. Acetylene-gas generator.....	600,868	Mar. 22	2242	511	82	1699
Handshy, Henry M., assignor of one-half to Vaughan Lumber Company, San Antonio, Tex. Cartridge-loading machine.....	600,613	Mar. 15	1809	415	82	1603
Handy Pin Company. (See Congelton, Osborn, assignor.)						
Hanes, Eleanor I. (See Fowler, William R., assignor.)						
Hanes, Erastus W., assignor to W. J. Payne, Candor, N. Y. Bicycle-brake.....	609,742	Aug. 23	2920	683	84	1268
Haney, Eugene A., Boston, Mass. Safety gas-cock.....	597,181	Jan. 11	1262	296	82	262
Haney, Michael C., <i>et al.</i> (See Fagg, Benjamin F. B., assignor.)						
Hanford, Charles H. (See Staples and Bush, assignors.)						
Hanger, George C., Churchville, Va. Feed-cutter.....	612,925	Oct. 25	2387	568	85	501
Hanger, Jacob A., Staunton, Va. Adjustable folding reading and work table.....	600,148	Mar. 8	1012	227	82	1432
Hanger, Jacob A., Staunton, Va. Churn.....	606,966	July 5	569	125	84	113
Hanger, Jacob A., Staunton, Va. Stovepipe attachment.....	606,967	July 5	572	125	84	114
Hanington, Charles F., New York, N. Y., assignor to Mechanical Door Hinge Check Company, of New York. Door-check.....	601,830	Apr. 5	389	82	83	73
Hanken, Edward E., Waggoner, Ill. End-gate.....	614,104	Nov. 15	1537	352	85	954
Hankin, John, New York, N. Y. Belt-clamping device.....	600,869	Mar. 22	2244	511	82	1699
Hanks, Marshall W., Madison, Wis. Electric controller.....	606,009	June 21	1801	414 415	83	1730
Hanlon, Daniel H., Preston, Minn. Cyclone-vault.....	603,948	May 10	1276	290	83	865
Hann, Thomas, deceased, (T. W. Kent, executor,) W. Bromley, J. Price, A. H. Smith, and D. E. Radclyffe; said Price assignor to W. H. D. Tyler, London, England. Driving-gear for velocipedes.....	616,674	Dec. 27	2737	635	85	1997
Hanna, Elmer E., assignor to Gates Iron Works, Chicago, Ill. Self-lubricating engine.....	606,543	June 28	2809	647	83	1945
Hanna, Harry A., St. Paul, Minn. Car-coupling.....	596,875	Jan. 4	733	172	82	143
Hannafor, Harry L., Danielson, Conn. Nut-lock.....	613,035	Oct. 25	2550	606	85	554
Hannahs, Fred C., assignor to Kenosha Crib Company, Kenosha, Wis. Child's chair.....	604,045	May 17	1493	335	83	941
Hannan, James, Muscatine, Iowa. Tobacco-pipe.....	598,086	Feb. 1	27	7	82	608
Hannan, John R., assignor of two-thirds to J. and J. A. Hart, Middlesbrough, England. Liquid-sealed valve for air and gases.....	607,035	July 12	721	154 155	84	161
Hannemann, Albert, Berlin, Germany. Manufacture of asphalt.....	598,147	Feb. 1	125	-----	82	626
Hanner, Martin, Duisburg, Germany. Cut-off-valve-regulating mechanism.....	610,047	Aug. 30	3461	802	84	1388
Hannon, Samuel L., and M. A. Jordan, Washington, D. C. Respirator.....	611,478	Sept. 27	2463	567	84	1966
Hannum, Charles H., Philadelphia, Pa. Adjustable and noiseless window.....	612,037	Oct. 11	796	196	85	166
Hannum, Henry A., Cazenovia, N. Y. Green-bone cutter.....	610,531	Sept. 13	727	165	84	1595
Hano, Philip. (See Turck, Frederick M., assignor.)						
Hanotier, Victor, and G. Hostelet, Chimay, Belgium. Apparatus for producing acetylene gas.....	599,098	Feb. 15	1746	415	82	969
Hansard, Joseph L., and R. Hiatt, Lebanon, Oreg. Air-motor for bicycles.....	597,466	Jan. 18	1757	407	82	375



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Hansbrough, John W. (See Bowles and Hansbrough.)						
Hanse, William F., assignor to J. T. Perkins Company, New York, N. Y. Oil-press mat.	611,316	Sept. 27	2147	496	84	1908
Hänsel, Albert, Zeitz, Germany. Cycle	599,705	Mar. 1	54	12	82	1227
Hänsel, Charles, Easton, Pa. Railway-crossing	606,339	June 28	2438	564	83	1873
Hansell, Robert C., San Antonio, Tex. Armor for pneumatic tires	602,132	Apr. 12	934	204	83	189
Hansen, Albert, Boston, Mass. Money-envelop	598,659	Feb. 8	1018	245	82	813
Hansen, Adolph C., Chicago, Ill. Cash-register	597,976	Jan. 25	2623	613	82	559
Hansen, Christopher C., Carroll, Mont., assignor of one-third to J. Hansen, Random Lake, Wis. Boiler	597,498	Jan. 18	1808	419	82	385
Hansen, Hans C., assignor of one-half to R. E. Gager, Ithaca, N. Y. Fire-escape	613,764	Nov. 8	970	222	85	822
Hansen, Hans P. (See Morrison and Hansen.)						
Hansen, Harry I., Boonton, N. J. Rope-making machine	604,614	May 24	2555	583	83	1162
Hansen, Henry C., Oshkosh, Wis. Pump-strainer	615,847	Dec. 13	1140	266	85	1648
Hansen, Hermann, assignor to G. E. Strauss, New York, N. Y. Ball-bearing	600,311	Mar. 8	1272	290	82	1482
Hansen, Jacob. (See Hansen, Christopher C., assignor.)						
Hansen, Marius H., Chicago, Ill. Spring-scale	612,968	Oct. 25	2454	586	85	515
Hansen, Morton B. (See Schiöningg and Hansen.)						
Hansen, Peter H., Copenhagen, Denmark. Composition containing casein for electric insulating or other purposes	610,626	Sept. 13	889		84	1628
Hansen, Thorvald, Everett, Mass. Thread-winding machine	611,627	Oct. 4	57	15	85	14
Hansen, Victor. (See Douglas and Hansen.)						
Hansen, William, assignor to himself and A. Nydegger, Chicago, Ill. Car-truck	608,983	Aug. 9	1499	355	84	964
Hanskey, Ole R., Lake Preston, S. D. Fire-escape	616,318	Dec. 20	2048	476	85	1845
Hanson, Bengt M. W., Hartford, Conn. Oil-cup	612,036	Oct. 11	794	196	85	166
Hanson, Charles E., Two Harbors, Minn. Spring-support	599,076	Feb. 15	1716	407	82	964
Hanson, Joseph, assignor of three-fourths to J. Ham, C. E. Richards, and J. S. Harbour, Crystal Falls, Mich. Lock for dumping-car doors	609,021	Aug. 16	1591	378 379	84 84	995
Hanson, Julius L., Governor's Island, N. Y. Whistle	604,918	May 31	3090	710	83	1283
Hanson, Maurice, Swenoda, Minn. Automatic grain-measurer	601,140	Mar. 22	2684	615	82	1783
Hanson, Miles A., and W. W. Wolff, Sheboygan, Wis. Tilting-chair iron	599,502	Feb. 22	2512	592	82	1126
Hanson, Ole H., Litchfield, Minn. Combined anvil, vise, and drill	612,415	Oct. 18	1459	352	85	305
Hanson, Paul, Chicago, Ill. Grain-binder	602,445	Apr. 19	1482	338	83	311
Hanson, Paul, assignor to Deering Harvester Company, Chicago, Ill. Grain-binder	614,466	Nov. 22	2218	510	85	1095
Hanson, Paul, assignor to Deering Harvester Company, Chicago, Ill. Grain-binder	614,467	Nov. 22	2225	511 512	85	1097
Hanson, Robert. (See Carr, Lawrence P., assignor.)						
Hanson, Victor, Richmond, assignor of one-half to J. G. Whitlock, Hanover county, Va. Sand-pump	610,325	Sept. 6	354	75	84	1509
Hanson, Winfield E., assignor of one-half to O. M. Shaw, Boston, Mass. Dental plugger	608,984	Aug. 9	1500	355	84	964
Hantke, Ernst, assignor to A. von Cotzhausen, Milwaukee, Wis. Food compound and making same	613,765	Nov. 8	971		85	822
Happe, Charles A. (See Hafely, Redlefsen, and Happe.)						
Hara, Zipporah G., Bayonne, N. J. Skirt	609,023	Aug. 16	1594	379	84	996
Harbaugh, Howard E., and A. W. Redin, Kenosha, Wis. Mechanical movement	613,199	Oct. 25	2817	666	85	588
Harbers, Ludwig H. F. B. (See Schubert, Oskar, assignor.)						
Harbinger, Waldemar, South Shields, England. Metallic packing for piston-rods	612,493	Oct. 18	1587	379	85	329
Harbison, Alexander, <i>et al.</i> (See Farnam, Charles N., assignor.)						
Harbour, James S., <i>et al.</i> (See Hanson, Joseph, assignor.)						
Harcourt, Matthew, Detroit, Mich. Hanger for fire-harness	602,322	Apr. 12	1272	281	83	256
Hardart, Frank. (See Anderson, John, assignor.)						
Harden, George, Toledo, assignor of one-half to J. E. Cronan, Dayton, Ohio. Bicycle	616,571	Dec. 27	2527	585	85	1957
Harden, John J., assignor of one-fourth to F. T. White and W. F. Stewart, Chicago, Ill. Wheel-tire	616,462	Dec. 27	2323	541	85	1920
Hardenbrook, Charles E., Philadelphia, Pa., assignor to Morley Button Sewing Machine Company, Boston, Mass. Button-feeding mechanism	602,804	Apr. 19	2106	475	83	429
Harder, Arthur J., Williamsport, Pa. Filter	604,984	May 31	3184	733	83	1302
Harder, Charles N. (See Sagendorph, Longley L., assignor.)						
Harder, Ernest F. (See Davis and Harder.)						
Harder, George D., Cobleskill, N. Y. Binding attachment for threshers or rubbers	604,319	May 17	2011	450	83	1040
Hardesty, Robert G., Birmingham, Ala. Car-coupling	599,901	Mar. 1	435	96	82	1296
Hardesty, William F. (See Huston, Wayman S., assignor.)						
Hardgrave, Cager. (See McLane and Hardgrave.)						
Hardin, Charles B., and J. D. Mosby, Kansas City, Mo. Horse-detacher	604,469	May 24	2301	523	83	1115
Harding, Charles K., Chicago, Ill. Smelting phosphorus	602,747	Apr. 19	1998	453	83	408
Harding, Charles W., Musselshell, Mont. Receptacle for chewing-gum	603,949	May 10	1277	290	83	865
Harding, Daniel J., Corsicana, Tex. Hose-coupling	599,782	Mar. 1	187	47	82	1251
Harding, Felix H., Cleveland, Ohio. Extension banquet-table	614,468	Nov. 22	2235	512	85	1099
Harding, James F., Port Deposit, Md. Number-indicator for jockeys	600,074	Mar. 1	815	187	82	1374
Harding, John F. (See Holbrook and Harding.)						
Harding, Nathaniel, Freeport, Ohio. Horseshoe	613,991	Nov. 8	1347	306 307	85	895
Harding, William E., South Framingham, Mass. Photographic retouching-table	603,765	May 10	943	211	83	800
Hardingham, George G. M., London, England. Driving mechanism for cycles	616,534	Dec. 27	2468	571	85	1946
Hardman, James, Jr., Belleville, N. J. Water bag or bottle	596,502	Jan. 4	64	14	82	15
Hardman, James, Jr., Belleville, N. J. Water bag or bottle	607,235	July 12	1136	243	84	235
Hardman, James, Jr., Belleville, N. J. Water bag or bottle	607,236	July 12	1138	243	84	236
Hardman, Richard B., Bury, England. Apparatus for extracting oil	607,367	July 12	1367	291 292	84	281
Hardwick, Harry, Philadelphia, Pa. Cut-pile carpet fabric	604,320	May 17	2012	451	83	1040
Hardwick, Harry, Philadelphia, Pa. Two-ply ingrain carpet fabric	610,742	Sept. 13	1073	246	84	1665
Hardwick, James L., and S. O. Manville, Cedar Rapids, Iowa. Acetylene-gas generator	598,868	Feb. 8	1353	326	82	876
Hardy, Alvah E., Everett, assignor of one-half to R. B. Lincoln, Waltham, Mass. Seat for bicycles	597,674	Jan. 18	2095	490	82	441
Hardy, Drury S., <i>et al.</i> (See Moore, Thomas A. L., assignor.)						
Hardy, Frederick, assignor of one-half to J. H. Means, Birmingham, Ala. Casting apparatus	609,671	Aug. 23	2809	655 656	84	1247
Hardy, George, Buffalo, assignor to Barber Asphalt Paving Company, New York, N. Y. Asphalt-cutter	615,698	Dec. 13	885	205	85	1599
Hardy, Hugh, Hawarden, Iowa. Car-mover	609,541	Aug. 23	2557	598	84	1198
Hardy, John J., Columbia, Pa. Hydrant	609,805	Aug. 30	3031	709 710	84	1303
Hardy, Sarah F., Minneapolis, Minn. Buttonhole-opener	612,416	Oct. 18	1460	353	85	305
Hardy, Stephen A. D., Aix, Mo. Truss	616,319	Dec. 20	2049	476 477	85	1845
Hardy, William H., Hartlepool, England. Tool and holder for use in cutting, boring, and slotting metals	605,422	June 7	699	155	83	1487



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Hare, D. Dallas. (See Hare, Robert W., assignor.)						
Hare, John H., Noblesville, Ind. Reversing-gear	605,226	June 7	314	72	83	1411
Hare, John R., Baltimore, Md. Patch for pneumatic tires	603,846	May 10	1100	247	83	830
Hare, Robert W., assignor to D. D. Hare, Allegheny, Pa. Elevator	596,589	Jan. 4	227	50	82	45
Harfield, William H., London, England. Steam steering-gear	603,088	Apr. 26	2504	568	83	519
Harford, Havelock, South Shields, England. Chain driving-gear	598,179	Feb. 1	189	44	82	688
Harger, Jay T., Chicago, Ill. Fluid-pressure regulator	598,148	Feb. 1	126	29	82	626
Hargis, Martha E., Attica, Kans. Work-holder	614,387	Nov. 15	2069	477	85	1054
Hargrave, Alfred. (See Hargrave, Joseph G. and A.)						
Hargrave, Joseph G. and A., near Manchester, England. Purifying and deodorizing butter, &c	601,319	Mar. 29	3044	686	82	1878
Hargraves, John F., assignor to G. M. Harsh, Baltimore, Md. Wrapping-machine	615,650	Dec. 6	798	185	85	1570
Harig, Henry, Cincinnati, Ohio. Insect-trap	600,590	Mar. 15	1676	382	82	1578
Hariman, George V., Denison, assignor of one-third to O. P. W. Michael, Gainesville, Tex. Railway-rail	609,024	Aug. 16	1595	379	84	996
Harker, John C., Baltimore, Md. Box	598,087	Feb. 1	28	7, 8	82	608
Harkness, Charles B., Reading, Mass. Bicycle-support	599,446	Feb. 22	2407	565	82	1117
Harkness, Charles B., Reading, and W. T. Crowell, Boston, Mass. Shutter-controller	602,323	Apr. 12	1274	282	83	257
Harlan, Calvin C., and C. C. B. Mullin, Eaton, Ohio. Combined chin-rest and modulator	615,848	Dec. 13	1140	266	85	1648
Harlan, Enoch. (See Eberman, Albert S., assignor.)						
Harlan, Howard, Richmond, assignor of one-half to S. D. Cranshaw, Henrico county, Va. Ore-roasting furnace	602,400	Apr. 12	1407	317	83	283
Harle, Joseph, Vancouver, Wash. Magazine-firearm	601,097	Mar. 22	2613	596	82	1769
Harless, W. C., <i>et al.</i> (See Melvin, Wythe G., assignor.)						
Harley, Olin, South Whitley, Ind. End post for line-wire fences	600,964	Mar. 22	2396	547	82	1728
Harling, Carl E., New York, N. Y. Nut-lock	611,479	Sept. 27	2464	567	84	1966
Harlow, Franklin W., Eureka, Colo. Combined ore concentrator and slimer	606,138	June 21	2041	467	83	1775
Harlow, William O., assignor of one-half to L. A. Lohr, Shenandoah, Va. Car-door	604,899	May 31	3048	699	83	1275
Harman, Nathaniel O., Gilboa, Ohio. Bicycle luggage-carrier	611,905	Oct. 4	542	132	85	106
Harmatta, Johann, Szepesváralja, Austria-Hungary. Metal barrel	608,772	Aug. 9	1075	247	84	885
Harmatta, Johann, Szepesváralja, Austria-Hungary. Apparatus for forming metal casks	610,532	Sept. 13	729	165	84	1595
Harmel, John W., and W. J. Galloway, Pekin, Ill. Boiler-furnace	605,281	June 7	426	96	83	1433
Harmon, Arthur A., <i>et al.</i> (See Adde, Charles A., assignor.)						
Harmon, Nathaniel B., New York, N. Y. Pneumatic tire	610,233	Sept. 6	175	39	84	1475
Harmon, Orville S., Brooklyn, N. Y., assignor to P. Lorillard Company, Jersey City, N. J. Machine for treating tobacco	606,209	June 28	2176	500	83	1819
Harmon, Robert G., <i>et al.</i> (See Knight, Ellwood T., assignor.)						
Harmon, Thomas H., <i>et al.</i> (See Adde, Charles A., assignor.)						
Harms, Henry. (See Danckwardt, Paul, assignor.)						
Harnden, Charles, Bowmanville, Canada, assignor to J. W. Ivory, Philadelphia, Pa. Dental mouth-mirror	606,456	June 28	2653	610	83	1915
Harnell, Charles H., <i>et al.</i> (See Baker, Cyrus N., assignor.)						
Harness, R. A. (See Hironimus, Fred W., assignor.)						
Harp, William I., Sparta, N. C. Gate	602,748	Apr. 19	2002	454	83	409
Harper, Daniel W., assignor of one-half to R. L. Matthews, Memphis, Tenn. Dipper	609,481	Aug. 23	2352	555	84	1161
Harper, Irvine A., <i>et al.</i> (See Van Wagoner, Charles H., assignor.)						
Harper, Lewis E. (See Grohmann and Harper.)						
Harper, Lewis E., and C. L. Grohmann, Hartford, Conn. Machine for dressing and grinding metal	612,240	Oct. 11	1144	274	85	233
Harper, Lewis E., and R. F. Dow, assignors to Pratt & Whitney Company, Hartford, Conn. Machine for grinding or dressing metal	596,503	Jan. 4	65	15	82	15
Harper, Lewis E., and C. L. Grohmann, assignors to Pratt & Whitney Company, Hartford, Conn. Ball-bearing	608,854	Aug. 9	1262	294	84	919
Harpman, John, Victoria, Ill. Wire stretcher and mender	600,312	Mar. 8	1273	290	82	1482
Harrell, John H., New York, N. Y., assignor to B. F. Allen, Groton, Conn. Joint for bicycle or other constructions	598,202	Feb. 1	235	52	82	646
Harrell, Joseph J., assignor to E. D. Owen, trustee, Chicago, Ill. Bolt and nut	614,169	Nov. 15	1651	379	85	975
Harrell, Robert S., Johnson Grove, Tenn. Plow attachment	601,016	Mar. 22	2491	566	82	1745
Harriman, Frank H., Maynard, Mass. Apparatus for dampening collars and cuffs	615,983	Dec. 13	1386	325	85	1695
Harriman, John. (See Harriman, Josiah and J.)						
Harriman, Josiah, Lowell, Mass. Warp stop-motion for narrow-ware looms	605,479	June 14	777	179	83	1523
Harriman, Josiah and J., Lowell, Mass.; said J. Harriman assignor to said Josiah Harriman. Slack-alarm and stop-motion for looms	605,199	June 7	254	59, 60	83	1399
Harriman, Moses C., Cheboygan, Mich. Photographic-background carrier	610,808	Sept. 13	1204	277	84	1692
Harriman, Wilbur E., Chatham, N. H. Ironing-table	606,210	June 28	2178	500	83	1820
Harrington, Amos. (See Fletcher, Robert, assignor.)						
Harrington, Andrew J., and R. S. Warnock, Magnolia, Ark. Cultivator	614,469	Nov. 22	2237	513	85	1099
Harrington, Emma A., <i>et al.</i> (See Woodward, Walter J., assignor.)						
Harrington, Emma A., <i>et al.</i> (See Woodward and Brett, assignors.)						
Harrington, Hardy W., Toledo, Ohio. Car-coupling	613,992	Nov. 8	1348	307	85	895
Harrington, Herbert E., Walden, Vt. Heating-drum	616,320	Dec. 20	2051	477	85	1846
Harrington, Jennie C., Ossian, Iowa. Clinical-thermometer shield	599,179	Feb. 15	1886	446	82	993
Harrington, John, Ryde, Isle of Wight, England. Back-pedaling brake	610,649	Sept. 13	923	212	84	1635
Harrington, Maggie. (See Wheeldon, John W., assignor.)						
Harrington & Richardson Arms Company. (See Richardson, William A., assignor.)						
Harrington, Samuel H., New York, N. Y. Electric bond for railway-rails	608,258	Aug. 2	152	38	84	684
Harrington, Sterling P., Farley, Mo. Gate	609,806	Aug. 30	3033	710	84	1304
Harrington, Walter E. (See Starr, Charles E., Jr., assignor.)						
Harrington, Walter E., Camden, N. J. Rail-bond	616,232	Dec. 20	1893	437	85	1813
Harris, Aaron, and C. Stahl, New York, N. Y. Druggist's and medicine label	906,457	June 28	2653	610	83	1915
Harris, Alexander B. B., Bristol, Tenn. Gage-adjusting tie-plate	603,563	May 3	587	130	83	714
Harris Automatic Press Company. (See McNutt, John F., assignor.)						
Harris, Charles E., Ellwood City, Pa. Railway switch and frog	600,720	Mar. 15	2000	455	82	1639
Harris, Charles E., Ellwood City, Pa. Combined switch and signal mechanism	610,809	Sept. 13	1206	277	84	1692
Harris, Charles R. (See Busse, Henry, assignor.)						
Harris, Charles R., Williamsport, Pa. Bicycle	600,001	Mar. 1	589	135	82	1324
Harris, Charles R., Williamsport, Pa. Bicycle	609,581	Aug. 23	2628	615	84	1212



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Harris, Edwin T., assignor of one-half to F. G. Earley, Ridgway, Pa. Continuous brick-kiln	616,321	Dec. 20	2054	478	85	1846
Harris, Elmer S. Haverhill, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Inseam-trimming machine	598,223	Feb. 1	269	59, 60	82	654
Harris, Elmo G., Rolla, Mo. Electric controlling apparatus for switch-valves	607,036	July 12	723	155	84	161
Harris, Frederic A., A. M. Cupples, and M. McCann, Tyrone, Pa. Car-fender	602,133	Apr. 12	937	204	83	189
Harris, Frederick. (See Feathers and Harris.)						
Harris, George H., Wadebridge, England. Hydraulic ram	606,715	July 5	146	30, 31	84	30
Harris, George W. and W. R., Lowell, Mass. Machine for making loom-heddles	603,080	Apr. 26	2583	{ 586 587 588 }	{ 83	534
Harris, George W., and R. J. Holland, New York, N. Y. Box or case for secondary-battery electrodes	598,926	Feb. 15	1459	349	82	913
Harris, Herbert G., and W. Blackmore, assignors to Warwick Cycle Syndicate, Limited, London, England. Velocipede	601,254	Mar. 29	2902	661	82	1851
Harris, Hile W., Brecksville, Ohio. Bouquet-holder	598,780	Feb. 8	1214	294	82	850
Harris, Hubert F. (See Appleby, Edwin, assignor.)						
Harris, Isaiah, Wilmington, Ohio. Ironing-machine	597,410	Jan. 18	1645	{ 382 383 }	{ 82	353
Harris, Isidore, <i>et al.</i> (See Fallek, Nathan, assignor.)						
Harris, James M. (See Hand, Juan F., assignor.)						
Harris, John, Shamokin, Pa. Nut-lock	601,889	Apr. 5	512	106	83	96
Harris, Jonathan, assignor to M. W. Boley, Cleveland, Ohio. Wire-fence joint	615,651	Dec. 6	802	186	85	1571
Harris, Louis G., Toronto, Canada. Process of and composition for making gas	609,582	Aug. 23	2630	615	84	1212
Harris, Marvin A. D., Brooklyn, N. Y. Identification-button	602,446	Apr. 19	1485	339	83	312
Harris, Max, New York, N. Y., assignor to Manhattan General Construction Company, of New York. Electric-arc lamp	610,898	Sept. 20	1364	312	84	1740
Harris, Nathaniel, St. Louis, Mo. Lock	600,282	Mar. 8	1233	280	82	1474
Harris, Nathaniel, St. Louis, Mo. Sash-holder	600,283	Mar. 8	1234	280	82	1475
Harris, Patrick J., assignor to W. H. O'Brien, St. Louis, Mo. Coffee-can	612,926	Oct. 25	2388	568	85	501
Harris, Robert, Bridgeport, Conn., and M. K. Goldsmith, New York, N. Y. Mechanism for lowering car-fenders	601,751	Apr. 5	249	49	83	48
Harris, Rutledge, Cedar Falls, Iowa. Rod-guide for dowel-machines	607,037	July 12	725	156	84	162
Harris, Samuel, Twinsburg, Ohio, assignor to Steel Motor Company, of Ohio. Electric controller	611,215	Sept. 20	1939	447	84	1849
Harris, Stephen L. (See Davies, Charles W. T., assignor.)						
Harris, Theodore W., <i>et al.</i> (See Luce, Thomas C., assignor.)						
Harris, W. P., <i>et al.</i> (See Williston, Benjamin F., assignor.)						
Harris, W. W. (See Pearson, Swain, assignor.)						
Harris, Wilbur J. (See Harris, William and W. J.)						
Harris, William, assignor of one-half to J. C. Beckett and C. L. Campbell, Cambridge, Ohio. Bread and pastry board	599,447	Feb. 22	2409	565	82	1117
Harris, William, and F. A. Brandt, Milwaukee, Wis. Smoke-consuming furnace	600,199	Mar. 8	1089	246	82	1447
Harris, William, Bellebridge, Pa., and W. J. Harris, Mount Pleasant, Ohio. Railway-switch	603,902	May 10	1203	272	83	850
Harris, William D., assignor of one-half to W. T. Gast, Russellville, Ala. Plow and cultivator	614,715	Nov. 22	2668	608	85	1177
Harris, William E., Chicago, Ill. Thawing apparatus	599,606	Feb. 22	2706	633	82	1174
Harris, William E., Chicago, Ill. Gold-separator	613,143	Oct. 25	2728	644	85	569
Harris, William E., Niles, Ohio. Apparatus for treating sheet-iron and tin-plate	608,119	July 26	2933	{ 628 629 }	{ 84	624
Harris, William G., Ippelen, assignor of one-half to F. Pertwee, London, England. Adjustable spanner or wrench	599,837	Mar. 1	309	69	82	1271
Harris, William G., Newton Abbot, assignor of one-half to F. Pertwee, London, England. Adjusting device for ball-bearings	608,041	July 26	2819	600	84	601
Harris, William R. (See Harris, George W. and W. R.)						
Harris, William T. (See Turk and Harris.)						
Harris, Zera W., Champaign, Ill. Mold for ice-cream, confections, &c	609,025	Aug. 16	1596	380	84	996
Harrison, Arthur W., Washington, D. C. Luggage-carrier	611,216	Sept. 20	1942	448	84	1849
Harrison Bros. & Company. (See Darling, James D., assignor.)						
Harrison, Carrie D. (See Harrison, James P., assignor.)						
Harrison, Clark W. (See Mefford, David M., assignor.)						
Harrison, Dora, Lansing, assignor to Harrison Manufacturing Company, Grand Rapids, Mich. Bosom-pad	599,180	Feb. 15	1887	447	82	993
Harrison, Dora, Lansing, assignor to Harrison Manufacturing Company, Grand Rapids, Mich. Hose-supporter	605,480	June 14	779	179	83	1523
Harrison, Edwin D., Irvington, and C. H. Thurber, East Orange, N. J., assignors to Celuloid Company, New York, N. Y. Producing pyroxylin imitations of mosaic	602,159	Apr. 12	1001	219	83	202
Harrison, Frederick J., Orange, N. J., assignor to E. & H. T. Anthony & Company, of New York. Color-value curtain-shutter	599,670	Feb. 22	2831	658	82	1200
Harrison, George E. (See Longshore-Potts, Anna M., assignor.)						
Harrison, Henry C. (See Barker, Dell, assignor.)						
Harrison, James M. (See Fien and Harrison.)						
Harrison, James P., assignor to C. D. Harrison, Danville, Va. Stamp-holder	601,416	Mar. 29	3201	722	82	1908
Harrison, John, Aston, England. Feed mechanism for ball-sorting machines	612,338	Oct. 11	1323	319	85	265
Harrison, John, assignor to Elliptic Cycle Company, Limited, Peterborough, England. Bicycle-brake	606,166	June 21	2093	481	83	1765
Harrison, John F., Jackson, Tenn. Cuff-holder	613,816	Nov. 8	1067	242	85	840
Harrison, Joseph B., Stockport, England. Manufacture of felt hats	610,627	Sept. 13	890	{ 203 204 }	{ 84	1628
Harrison Machine Works. (See Koch, Jacob F., assignor.)						
Harrison Manufacturing Company. (See Harrison, Dora, assignor.)						
Harrison, Mary E., Valdosta, Ga., and S. A. Robinson, Orlando, Fla. Toy	613,414	Nov. 1	369	85	85	686
Harrison, Percy R., New York, N. Y. Acetylene-gas-generating lamp	596,703	Jan. 4	443	100	82	86
Harrison, Thomas. (See Papps, John H. and L. F., assignors.)						
Harrison, W. S., <i>et al.</i> (See Lynn, Michael J., assignor.)						
Harrison, William F., West Chester, Pa. Rotary-plug cock	601,652	Apr. 5	50	10	83	11
Harrison, William F., assignor to Pratt & Cady Company, Hartford, Conn. Throttle-valve	608,197	Aug. 2	56	13	84	666
Harrison, William F., assignor to Pratt & Cady Company, Hartford, Conn. Back-pressure valve	616,100	Dec. 20	1622	380	85	1760
Harrison, William H. (See Matthias and Harrison.)						
Harrison, William S. (See Howard, Thomas, assignor.)						
Harrity, Michael P., Clinton, Mass. Bicycle-gearing	609,344	Aug. 16	2202	520	84	1113
Harry, Edward. (See Jaixen and Harry.)						
Harryman, Archibald H., Louisville, Ky. Horse-hitch and brake	610,678	Sept. 13	967	{ 223 224 }	{ 84	1644



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Harsh, George M. (See Hargraves, John F., assignor.)						
Harshaw, Seth T., Lansingburg, assignor of one-half to Campbell & Clute, Cohoes, N. Y. Loop-cutting attachment for knitting-machines	605,873	June 21	1527	352	83	1680
Harshner, Darius L., Etna Green, Ind. Bicycle-gear	608,674	Aug. 9	912	209	84	855
Harster, Georg, Speyer, Germany. Preventing closing of cut flowers of the order Nymphaeaceæ	607,038	July 12	726		84	162
Hart, Alfred, assignor to F. E. and R. W. Hart, Chicago, Ill. Mower	605,874	June 21	1528	352	83	1680
Hart, Andrew H., Winchester, Ky. Voting-machine	605,423	June 7	700	156	83	1487
Hart, Charles W. (See Worst and Hart.)						
Hart, Edward, Huntsville, Tex. Cleaner for seed-cotton	613,993	Nov. 8	1350	307 308	85	895
Hart, Edward, assignor to Baker & Adamson Chemical Company, Easton, Pa. Apparatus for concentrating acids	601,466	Mar. 29	3285	742	82	1924
Hart, Edward, assignor to Baker & Adamson Chemical Company, Easton, Pa. Apparatus for distilling acids	603,508	May 3	496	109	83	697
Hart, Ellis R. (See Hart, Russell A. and E. R.)						
Hart, Frederick E., et al. (See Hart, Alfred, assignor.)						
Hart, George B., Paducah, Ky. Singletree-hook	609,022	Aug. 16	1593	379	84	996
Hart, Gerald W., Hartford, Conn., assignor to Hart & Hegeman Manufacturing Company, of Connecticut. Electric switch	612,038	Oct. 11	797	196	85	167
Hart, Gilbert, Detroit, Mich. Connector for storage-battery plates	605,424	June 7	701	156	83	1488
Hart, Harry S., Chicago, Ill. Machine for assorting carbons	597,646	Jan. 18	2042	477 478	82	432
Hart & Hegeman Manufacturing Company. (See Hart, Gerald W., assignor.)						
Hart, Henry M., Denver, Colo. Bicycle-lock	599,284	Feb. 15	2058	489	82	1027
Hart, Hubert C., Unionville, Conn. Wrench	609,146	Aug. 16	1832	434	84	1039
Hart, James A., et al. (See Hannan, John R., assignor.)						
Hart, John, et al. (See Hannan, John R., assignor.)						
Hart, John A., Blackburn, England. Apparatus for ventilating	611,480	Sept. 27	2466	567 568 569	84	1966
Hart, John A., Blackburn, England. Ventilating and air-moistening apparatus	613,510	Nov. 1	537	121 122	85	717
Hart, John W., assignor of one-half to W. J. Kaemmerling, Pittsburg, Kans. Nutmeg-grater	604,751	May 31	2810	642	83	1229
Hart, Louis H. (See Bones and Hart.)						
Hart, Michael. (See Grady and Hart.)						
Hart, Milton H., New York, N. Y. Fire-hose nozzle	597,182	Jan. 11	1264	296	82	262
Hart, Milton H., New York, N. Y. Jet-nozzle for fire-hose	600,149	Mar. 8	1014	227	82	1432
Hart, Orlando W., Fall River, Mass. Police-patrol system	606,365	July 5	481	92	84	85
Hart, Peter E. (See Wolfe and Hart.)						
Hart, Ralph W., et al. (See Hart, Alfred, assignor.)						
Hart, Russell A. and E. R., Battle Creek, Mich. Voting-machine	598,247	Feb. 1	307	70, 71	82	660
Hart, Sara C., Galveston, Tex. Fly-screen	603,595	May 3	638	142	83	725
Hart Weigher Company. (See Lee and Stuckel, assignors.)						
Hart, William H., Jr. (See Killinger, John, assignor.)						
Hart, William H., assignor to Stanley Works, New Britain, Conn. Hinge	612,201	Oct. 11	1072	257	85	213
Hart, William T., Keene, N. H., assignor to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine	597,610	Jan. 18	1989	463	82	422
Hartdegen, Charles, Newark, N. J. Apparatus for operating electric switches	615,388	Dec. 6	324	76	85	1475
Hartenstein, Herman L., Bellaire, Ohio. Process of and apparatus for utilizing waste products of blast-furnaces	596,704	Jan. 4	445	100 101	82	87
Hartenstein, Herman L., Bellaire, Ohio. Utilizing waste products of blast-furnaces	596,705	Jan. 4	447	101	82	87
Hartenstein, Herman L., Bellaire, Ohio. Utilizing waste products of blast-furnaces	596,749	Jan. 4	522	120	82	101
Hartford, John, San Francisco, Cal. Spirit-level	604,985	May 31	3186	734	83	1302
Hartman, Charles E., Lynn, Mass., assignor to General Electric Company, of New York. Cap for inclosed arc-lamps	613,858	Nov. 8	1131	259	85	852
Hartig, John C. (See Payment and Hartig.)						
Harting, John H., Indianapolis, Ind. Turn-table for railways	606,544	June 28	2810	647 648	83	1946
Harting, John H., Indianapolis, Ind. Automatic pneumatic turn-table	615,984	Dec. 13	1389	326 327	85	1696
Hartjen, John. (See Bürklin, Victor, assignor.)						
Hartley, Algernon G. (See Collins, Reuben J. C., assignor.)						
Hartley, Edward B. (See Gardner and Hartley.)						
Hartley, Herbert E. (See Hartley, John E. and H. E.)						
Hartley, John E. and H. E., Birmingham, England. Electroplating apparatus	615,699	Dec. 13	886	205	85	1509
Hartley, Marcellus, et al. (See Beardsley and North, assignors.)						
Hartman, Andrew J., assignor of one-half to F. T. L. Keiter, Allentown, Pa. Jar	616,839	Dec. 27	3011	701	85	2053
Hartman, John M., Philadelphia, Pa. Blast-furnace iron-notch and appliance	603,330	May 3	152	35, 36	83	631
Hartman, John M., Philadelphia, Pa. Notch-gun for blast-furnaces	610,302	Sept. 6	310	67	84	1502
Hartman, John M., Philadelphia, Pa. Blast-furnace accessory	616,101	Dec. 20	1624	380 381	85	1760
Hartman, John R., and M. L. Eldridge, Davenport, Iowa. Curtain-fixture	600,721	Mar. 15	2001	455	82	1639
Hartman, Joseph E., Cleveland, Ohio. Door-hanger	606,659	July 5	40	10	84	10
Hartman, Joseph P., Pueblo, Colo. Percussion-drill	606,139	June 21	2045	468 469	83	1776
Hartman, Noble W., Toledo, Ohio. Bicycle-lamp bracket	600,642	Mar. 15	1853	424	82	1611
Hartmann, Wilhelm, Offenbach-on-the-Main, Germany. Barrel-filling apparatus	601,960	Apr. 5	660	138 139	83	124
Hartmann, William C., assignor to C. L. Kneeland and G. W. Renyx, Lansing, Mich. Centrifugal separator	612,100	Oct. 11	910	221	85	189
Hartness, James, Springfield, Vt. Screw-cutting attachment	596,750	Jan. 4	525	120	82	101
Hartness, James, Springfield, Vt. Chuck	601,513	Mar. 29	3365	763	82	1941
Hartness, James, Springfield, Vt. Screw-cutting die	614,949	Nov. 29	3123	716 717	85	1284
Hartog, Stephen D., Jr., assignor to Eureka Stencil Machine Company, St. Louis, Mo. Manufacture of punches and dies	598,867	Feb. 8	1352	226	82	876
Harton, Pembroke D., Philadelphia, Pa. Cake-machine	603,081	Apr. 26	2791	589	83	535
Harton, Pembroke D., Philadelphia, Pa. Cake-cutting machine	612,773	Oct. 18	2099	497 498	85	425
Hartranft, Samuel S., Philadelphia, Pa. Furnace-twyer	606,545	June 28	2815	648	83	1947
Hartridge, Samuel, Huntington, N. Y. Washing-machine	598,869	Feb. 8	1355	327	82	877
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Shade-roller	603,903	May 10	1206	273	83	851
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Shade-roller	613,800	Nov. 8	1037	236	85	834



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Hartung, Charles C., assignor to E. Walsh, Jr., St. Louis, Mo. Method of and apparatus for rolling plate-glass	602,447	Apr. 19	1487	339	83	312
Hartung, Charles C., assignor to E. Walsh, Jr., St. Louis, Mo. Machine for rolling wire-glass	610,586	Sept. 13	824	189	84	1614
Harty, John. (See Maycock, William A., assignor.)						
Hartz, Henry V., Cleveland, Ohio. Roller-bearing for sheaves of tackle-blocks	614,248	Nov. 15	1821	420	85	1005
Hartzell, Morris H., Philadelphia, Pa. Window-ventilator	597,145	Jan. 11	1204	282	82	250
Hartzell, Walter E., Washington, D. C. Bicycle propulsion	616,665	Dec. 27	2717	631	85	1993
Harvester King Company. (See Appleby, John F., assignor.)						
Harvey, Charles, South Yardley, England. Machinery for making joints between parts of cycle or like framings	609,343	Aug. 16	2199	519 520	84	1112
Harvey, Charles J., Kidderminster, England. Carpet-sweeper	609,145	Aug. 16	1832	434	84	1039
Harvey, Elmer E., Dolington, Pa. Cover for milk-cans	605,425	June 7	703	156	83	1488
Harvey, George L., Chicago, Ill. Car-truck	613,415	Nov. 1	371	85, 86	85	686
Harvey, George L., Chicago, Ill. Bolster	614,323	Nov. 15	1956	451	85	1032
Harvey, George L., Chicago, Ill. Acetylene-gas generator	614,652	Nov. 22	2551	582	85	1155
Harvey, J. L., et al. (See James, Will S., assignor.)						
Harvey, James E., Readfield, assignor of one-half to F. L. Brande, Starke, Me. Grinding-machine	608,285	Aug. 2	201	47	84	695
Harvey, John A., Hancock, Md. Protector for trees	602,941	Apr. 26	2353	537	83	492
Harvey, John F., Johnsonburg, Pa. Pocket-knife	603,847	May 10	1100	247	83	830
Harvey, Patrick, Chicago, Ill. Siphon-jet-closet-operating device	597,499	Jan. 18	1809	419	82	385
Harvey, William H., Toronto, Canada. Ice or snow locomotive	600,672	Mar. 15	1917	436	82	1623
Harvison, Robert B. (See Heston and Harvison.)						
Hasbrouck, Frederick. (See Weber, Theodore A., assignor.)						
Hasbrouck, Josiah. (See Hotaling, William M., assignor.)						
Hasbrouck, Robert M., New York, assignor of one-half to G. W. Thompson, Brooklyn, N. Y. Car-axle	602,539	Apr. 19	1640	374	83	341
Hasey, Harvey W., Hempstead, N. Y. Brush	602,077	Apr. 12	846	184	83	172
Hasey, George H., Taunton, Mass. Pawl-and-ratchet device	614,470	Nov. 22	2238	513	85	1099
Haskell, Broderick, Grand Rapids, Mich. Brake-rod	608,392	Aug. 2	400	88	84	735
Haskell, Broderick, Grand Rapids, Mich. Carpet-sweeper	610,603	Sept. 13	854	196	84	1621
Haskell, Broderick, Grand Rapids, Mich. Mud and scale receptacle for steam-boilers	615,549	Dec. 6	626	143	85	1533
Haskell, Foster M. (See Campbell and Cummings, assignors.)						
Haskell, Henry L., Ludington, Mich. Game-board	602,179	Apr. 12	1029	226	83	207
Haskell, Henry L., Ludington, Mich. Game-board	602,180	Apr. 12	1031	226	83	208
Haskett, James A., Parsons, Kans. Folding egg-crate	606,140	June 21	2048	469	83	1776
Haskew, Frederick J. T., Stourbridge, England. Jig for securing cycle parts, &c., while being bored or machined	603,379	May 3	229	51	83	644
Haskin, John T., McKee's Rocks, Pa. Lifting-jack	612,725	Oct. 18	2010	477	85	408
Haskin, Joseph, Lansingburg, N. Y. Lantern-bracket	613,511	Nov. 1	539	122	85	718
Haskins, Caryl D., Newton, Mass., assignor to General Electric Company, of New York. Electric meter	610,899	Sept. 20	1365	312	84	1740
Haskins, Harry S., and Z. B. Coes, assignors to Edwin Harrington, Son & Company, Incorporated, Philadelphia, Pa. Hoisting apparatus	602,580	Apr. 19	1703	388	83	352
Haskins, James H., Chicago, Ill. Blank threading and pointing machine	602,506	Apr. 19	1575	360 361	83	330
Haskins, Seth F., Peoria, Ill. Hand-stamp	598,088	Feb. 1	30	8	82	609
Haskins, Stanley O., assignor of one-half to L. W. Llewellyn and J. E. Evans, Chattanooga, Tenn. Nut-lock	599,448	Feb. 22	2409	566	82	1117
Hass, J. H., et al. (See Connolly, Charles H., assignor.)						
Hasselberger, Frederick, Newark, N. J. Pocket-book	597,579	Jan. 18	1936	450	82	411
Hassencamp, Hugo, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Violet dye and making same	611,628	Oct. 4	60		85	14
Hassler, Ferdinand A., Santa Ana, Cal. Word-register for type-writing machines	610,181	Sept. 6	53	12	84	1451
Hassler, Robert H., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Alternating-current electric motor	606,056	June 21	1886	434 435	83	1746
Hassmann, John W., Chicago, Ill. Apparatus for malting grain	612,386	Oct. 11	1402	339	85	281
Hasson, John, Reading, Pa. Street-sweeper	600,232	Mar. 8	1124	256	82	1454
Hastings, Alfred L., and L. M. Scott, San José, Cal. Brush-cutting machine	612,726	Oct. 18	2011	477	85	409
Hastings, Charles H., Chicago, Ill. Note-book	608,286	Aug. 2	203	48	84	695
Hastings, Charles H., Chicago, Ill. Newspaper-holder	615,849	Dec. 13	1142	267	85	1649
Hastings, Henry J. (See Lundquist, Nicolaus A., assignor.)						
Hastings, James L., assignor to Standard Gas Company of America, Philadelphia, Pa. Apparatus for manufacturing gas	615,450	Dec. 6	434	103	85	1497
Hastings, James L., assignor to Standard Gas Company of America, Philadelphia, Pa. Coal-feeder for gas-producers	615,451	Dec. 6	440	104	85	1497
Hastings, James L., assignor to Standard Gas Company of America, Philadelphia, Pa. Steam-generator	615,452	Dec. 6	442	104	85	1498
Hastings, Robert E., Philadelphia, Pa. Device for laying gold-leaf	602,985	Apr. 26	2422	552	83	505
Hastings, Robert E., Philadelphia, Pa. Device for laying gold-leaf	602,986	Apr. 26	2424	552	83	505
Hasty, William P., assignor of one-half to E. J. White, Free Homes, Ga. Plow	612,899	Oct. 25	2348	559	85	492
Haszinger, George E., Vicksburg, Miss. Tack or nail hammer	609,672	Aug. 23	2811	656	84	1248
Hatch, Francis M., South Bend, Ind. Deliverer of packages from moving cars	614,863	Nov. 29	2947	677	85	1246
Hatch, Jacob D., Bucksport, Me. Folding ladder-hook	599,963	Mar. 1	533	122	82	1314
Hatch, James, San Francisco, Cal. Shaping-cutter	607,394	July 12	1417	303	84	291
Hatcher, James D., Minneapolis, Minn. Plaited fabric	615,985	Dec. 13	1398	327	85	1698
Hatch, James E., West Bromwich, England. Wheel for vehicles	601,141	Mar. 22	2686	615 616	82	1783
Hatchett, W. P. (See Gay, Matthew C., assignor.)						
Hatfield, Charles B., Utica, assignor, by mesne assignments, to Q. W. and I. E. Booth, Rochester, N. Y. Beading-machine	607,637	July 19	2043	424	84	433
Hatfield, John, and F. A. Rivers, Brooklyn, N. Y. Boat	598,089	Feb. 1	32	8	82	609
Hatfield, William L., Green Fork, Ind. Mail-bag crane	604,115	May 17	1634	367	83	967
Hathaway, Edward, Marblehead, Mass. Saddle-support for bicycles	609,964	Aug. 30	3318	772	84	1360
Hathaway, George M., New York, assignor to M. C. Arnot, Elmira, N. Y. Shell-fuse	612,494	Oct. 18	1588	379	85	329
Hathaway, George M., New York, assignor to M. C. Arnot, Elmira, N. Y. High-explosive shell	612,495	Oct. 18	1589	380	85	330
Hathaway, George M., New York, assignor to M. C. Arnot, Elmira, N. Y. High-explosive shell	612,496	Oct. 18	1591	380	85	330
Hathaway, Jerome W. (See Wood, Charles M., assignor.)						
Hatheway, William E., Bridgeport, Conn., assignor to Weld Manufacturing Company, Boston, Mass. Clasp	598,090	Feb. 1	33	9	82	610
Hathorn, Fred H., assignor to Hathorn Manufacturing Company, Brewer, Me. Die for rolled forgings	603,637	May 10	730	163	83	758
Hathorn, George H., Bangor, Me. Ball-grinding machine	598,510	Feb. 8	754	182	82	763



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Hathorn, George H., Bangor, Me. Machine for grinding and polishing.....	607,368	July 12	1367	292	84	281
Hathorn, George H., Bangor, Me. Die for forging articles circular in section.....	613,269	Nov. 1	77	18	85	631
Hathorn, George H., assignor to Dirigo Ball Manufacturing Company, Bangor, Me. Machine for grinding and polishing.....	607,369	July 12	1369	292 293	84	282
Hathorn, George H., assignor to Dirigo Ball Manufacturing Company, Bangor, Me. Swaging-machine.....	609,201	Aug. 16	1924	457 458	84	1056
Hathorn, George H., assignor to Dirigo Ball Manufacturing Company, Bangor, Me. Swaging-machine.....	609,202	Aug. 16	1927	458	84	1056
Hathorn Manufacturing Company. (See Hathorn, Fred H., assignor.)						
Hatmaker, James R. (See Hennig, Charles T., assignor.)						
Hatteberg, Axel K., Mattoon, Wis. Veneer-press.....	616,322	Dec. 20	2056	478 479	85	1847
Hatleli, Ole O., assignor of one-third to S. N. Sorensen, Fosston, Minn. Punching and shearing machine.....	614,716	Nov. 22	2670	608	85	1177
Haubrich, John. (See Spoerl and Haubrich.)						
Haubs, George C., St. Louis, Mo. Bicycle-stand.....	612,663	Oct. 18	1907	452	85	389
Hauer, Charles E., Cleveland, Ohio. Universal indicator.....	598,927	Feb. 15	1461	349	82	913
Haufl, Firm of J. (See Bogisch, Alfred, assignor.)						
Haufl, Firm of J. (See Dieterle, Wilhelm, assignor.)						
Haufl, Isaac F., Temple, Tex. Clamp.....	614,105	Nov. 15	1539	353	85	954
Haufl, John M., Allegheny, Pa. Ventilator.....	598,371	Feb. 1	518	125	82	700
Haug, Benjamin F., Indianapolis, and G. H. Vincett, Anderson, Ind.; said Vincett assignor to said Haug. Knuckle for car-couplings. (Reissue).....	11,704	Nov. 29	3680	843	85	1390
Haupt, Carl, Brooklyn, N. Y. Trundle-hoop.....	602,258	Apr. 12	1164	256	83	235
Hausdörfer, Paul B. (See Loeper and Hausdörfer.)						
Hauser, Martin, Toledo, Ohio. Window-screen.....	600,870	Mar. 22	2245	511	82	1699
Häusermann, Theodor, Vienna, Austria-Hungary. Producing photographic ornamentations on metal, &c.....	616,706	Dec. 27	2795		85	2008
Hauskey, Ole R., Lake Preston, S. D. Milking apparatus.....	603,616	May 3	690	154	83	734
Hausman, Ward B., Philadelphia, Pa. Tobacco-pipe cleaner.....	606,716	July 5	147	31	84	31
Hausmann, Bernard, San Francisco, Cal. Combined slidable and swinging sash.....	613,512	Nov. 1	541	122 123	85	718
Häussler, Max, Berlin, Germany. Firing device for boilers.....	600,673	Mar. 15	1919	436	82	1624
Hautsch, Anton, Nyack, N. Y. Pan-lifter.....	602,324	Apr. 12	1275	282	83	257
Havell, George, Newark, N. J., assignor to Havell Manufacturing Company, of New Jersey. Glove-stretcher.....	599,295	Feb. 15	2080	493	82	1030
Havell, George, Newark, N. J., assignor to Havell Manufacturing Company, of New Jersey. Case for surgical instruments.....	600,002	Mar. 1	590	136	82	1325
Havell Manufacturing Company. (See Havell, George, assignor.)						
Haviland, Ebenezer W., Richmond, Ind. Roller-bearing.....	602,749	Apr. 19	2003	453	83	409
Haviland, Harry D., et al. (See Haviland, Harry F., assignor.)						
Haviland, Harry F., assignor to himself, H. D. Haviland, and H. F. Clark, Philadelphia, Pa. Toilet-paper cutting and delivering apparatus.....	613,923	Nov. 8	1235	281	85	872
Hawes, George E. (See Adams, Abraham L., assignor.)						
Hawes, Herbert E., assignor to Colby & Co., Brooklyn, N. Y. Machine for making loop-waistbands.....	596,504	Jan. 4	70	16, 17	82	16
Hawes, Herbert E., assignor to Colby & Co., Brooklyn, N. Y. Thread-trimming device for sewing-machines.....	603,688	May 10	812	179	83	775
Hawes, Herbert E., assignor of one-fourth to T. C. Byrnes, New York, N. Y. Sewing-machine.....	610,486	Sept. 6	643	144	84	1562
Hawes, Levi M., Sacramento, Cal. Automatic gate.....	597,237	Jan. 11	1349	316	82	278
Hawes, S. M., Jr. (See Brigden, Charles H., assignor.)						
Hawk, John A., assignor of one-half to F. F. Bromley, Bluff City, Tenn. Churn.....	600,978	Mar. 22	2421	553	82	1732
Hawke, William W., et al. (See Ernst, John C., assignor.)						
Hawkes, Frank F., assignor of two-thirds to E. J. Smith and C. K. Prince, Westfield, Mass. Bicycle-rest.....	602,134	Apr. 12	938	205	83	189
Hawkes, Thomas, Boston, Mass. Smoothing-iron.....	615,356	Dec. 6	250	58	85	1462
Hawkes, William H., Greenfield, Mass. Sad-iron support.....	614,950	Nov. 29	3126	717	85	1285
Hawkey, John V., Greensburg, Pa. Lubricating car-wheels.....	614,808	Nov. 22	2829	651	85	1209
Hawkins, Charles F., St. John, Kans. Band-cutter and feeder.....	612,727	Oct. 18	2013	478	85	409
Hawkins, Frank W., assignor to Vickers Sons & Co., Limited, Sheffield, England. Apparatus for charging heavy breech-loading guns.....	609,345	Aug. 16	2203	521	84	1113
Hawkins, Harris F., Fulton county, Ky. Clothes-pin.....	598,342	Feb. 1	470	112	82	691
Hawkins, James E., St. Louis, Mo. Cork-pulling machine.....	603,950	May 10	1278	291	83	865
Hawkins, John T., Taunton, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Means for securing printing-plates to cylindrical surfaces.....	604,149	May 17	1692	380	83	978
Hawkins, John T., Taunton, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Cushioning apparatus for printing-machines.....	604,752	May 31	2811	642	83	1229
Hawkins, John W., Munfordville, Ky. Steam-engine.....	612,969	Oct. 25	2456	586	85	515
Hawkins, John W., assignor to Turner, Vaughn & Taylor Company, Cuyahoga Falls, Ohio. Link-winder.....	613,677	Nov. 8	794	182 183	85	789
Hawkins, Joseph. (See Moore and Thurman, assignors.)						
Hawkins, La Mott, Prairie Depot, Ohio. Self-regulating valve.....	615,550	Dec. 6	627	143	85	1534
Hawkins, Lee A., and W. N. O. Gardner, Jerome, Ariz. Ter. Bicycle-canteen.....	596,998	Jan. 11	951	225	82	202
Hawkins, Peter W., et al. (See Shaw, William C., assignor.)						
Hawks, Moses L., Chicago, Ill. Knife, scissors, or skate sharpener.....	605,289	June 7	447	99	83	1437
Hawley, Charles C. (See Dunn and Hawley.)						
Hawley, Charles G. (See Peck and Hawley.)						
Hawley, Charles G., et al. (See Shaft and Hays, assignors.)						
Hawley, Delia K., assignor to Rathbun Manufacturing Company, Chicago, Ill. Automatic lighter.....	602,045	Apr. 5	789	171	83	149
Hawley & Hoops. (See Anger, Louis J., assignor.)						
Hawley, Lamartine A., Sandisfield, Mass. Metallic roofing.....	611,906	Oct. 4	544	132	85	108
Hawley, M. J., and J. B. Clot, San Francisco, Cal. Machine for cutting marble or other stone.....	610,810	Sept. 13	1208	278	84	1693
Haworth, Amanda J. (See Kelly and Haworth.)						
Haworth, George D., Chicago, Ill. Corn-planter.....	602,908	Apr. 26	2273	518 519 520	83	476
Haworth, William H., New York, N. Y. Device for air-tight plugging of holes.....	614,547	Nov. 22	2350	538	85	1120
Hawthorn, John, and J. P. Liddell, Newtown, New Mills, England. Apparatus for washing printers' blankets.....	603,638	May 10	731	163 164	83	759
Hawthorn, John A., assignor of one-half to G. M. Franklin and G. Steinman, Lancaster, Pa. Pipe-wrench.....	596,505	Jan. 4	76	17	82	17
Hay, Alexander G., Philadelphia, Pa. Engine-valve.....	603,380	May 3	231	52	83	645



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Hay, William J., Oshkosh, Wis. Skirt-edge protector	612,417	Oct. 18	1461	353	85	305
Haycock, Edward B. (See Haycock, Samuel H. and E. B.)						
Haycock, Samuel H., Iroquois, and E. B. Haycock, Ottawa, Canada. Apparatus for mining in frozen ground	610,048	Aug. 30	3462	803	84	1389
Hayde, Edmund C., Chicago, Ill. Vehicle-wheel	605,875	June 21	1531	353	83	1681
Haydel, Stephens. (See Webre and Haydel.)						
Hayden & Derby Manufacturing Company. (See Huber, Jacob, assignor.)						
Hayden, Francis M. (See Eastes, William T., assignor.)						
Hayden, Josiah W., Jr., Boston, Mass. Corner-buffer for trunks	601,831	Apr. 5	393	83	83	74
Hayden, Martha P., Joliet, Ill. Rubber flower-holder	607,411	July 12	1453	308	84	296
Hayden, Nicholas, and C. F. C. Wurst, St. Paul, Minn. Stocking	615,271	Dec. 6	94	25	85	1431
Hayden, Randolph, Haddam, Conn. Gate	599,503	Feb. 22	2515	592	82	1137
Hayden, Zerah L., Cedar Rapids, Iowa. Vaginal syringe	609,432	Aug. 23	2353	555	84	1161
Haye, August, San Antonio, Tex. Apparatus for dispensing oil, &c.	604,321	May 17	2013	451	83	1041
Haye, Jacob S., and F. M. Humphrey, Pendleton, Oreg. Wrench	597,611	Jan. 18	1990	463	82	422
Hayes, Edward, Rochester, N. Y. Coupling	600,988	Mar. 22	2439	557	82	1735
Hayes, Fanny, Cockington, England. Device for washing knives	597,411	Jan. 18	1646	382	82	353
Hayes, Ferdinand, New York, N. Y. Scuttle or skylight operator	606,057	June 21	1891	435	83	1746
Hayes, Frederick B., Eckford, assignor of one-half to B. F. Warner, Homer, Mich. Grain-elevator for threshing-machines	614,613	Nov. 22	2483	567	85	1142
Hayes, George, New York, N. Y. Wheel for bicycles	604,883	May 31	3025	694	83	1271
Hayes, George, New York, N. Y. Wheel for vehicles	607,039	July 12	727	156	84	162
Hayes, George, New York, N. Y. Wheel for bicycles	609,542	Aug. 23	2358	599	84	1199
Hayes, George, New York, N. Y. Wheel for bicycles	610,743	Sept. 13	1074	247	84	1665
Hayes, James R. S. (See Manning and Hayes.)						
Hayes, John F., Ironton, Ohio. Form for florists' designs	600,313	Mar. 8	1275	291	82	1482
Hayes, John H., Appleton, Wis., and C. Fisher, Chicago, Ill. Fire-alarm box	599,654	Feb. 22	2799	651	82	1194
Hayes, Patrick B., and H. M. Carbine, Chicago, Ill. Brake for electric-motor cars	601,206	Mar. 22	2804	641	82	1805
Hayes, Pryor L., Springfield, Mo. Parlor pool-table	606,546	June 28	2816	648	83	1947
Hayford, Arthur G. (See Hayford, Eugene and A. G.)						
Hayford, Eugene and A. G., Spokane, Wash. Lifting-jack	598,660	Feb. 8	1019	246	82	813
Haymond, George L. (See McNerney and Haymond.)						
Hayne, Daniel H., <i>et al.</i> (See Le Ballister, David N., assignor.)						
Haynes, Elwood, and E. Apperson, Kokomo, Ind. Motor-vehicle	607,116	July 12	902	196	84	193
Haynes, Henry, assignor of one-half to T. Frost, Philadelphia, Pa. Flushing apparatus	605,712	June 14	1196	276	83	1601
Haynes, Hobart F., Nashua, N. H. Fountain-brush	615,617	Dec. 6	737	170	85	1557
Haynes, Thomas, Edna, Tex. Colter attachment for plows	607,743	July 19	2215	468	84	465
Hays, G. C. (See Needels, James H., assignor.)						
Hays, Harry J., Baldwin, Pa. Mold for manufacturing lamps, &c.	598,224	Feb. 1	271	60, 61	82	654
Hays, Harry M. (See Hegg, Thomas O., assignor.)						
Hays, Henry. (See Shaft and Hays.)						
Hays, James T. and T. C., Emmetsburg, Md. Acetylene-gas-generating apparatus	609,673	Aug. 23	2815	656	84	1249
Hays, Thomas C. (See Hays, James T. and T. C.)						
Hayward, Robert M., New York, N. Y. Attachment for shoes	611,860	Oct. 4	467	112	85	91
Haywood, Henry, and G. Totten; said Haywood assignor to said Totten; said Totten assignor of one-fourth to H. F. Lowe, Toronto, Canada. Fender for cars	601,961	Apr. 5	661	139	83	124
Hazel Glass Company. (See Henry and Brady, assignors.)						
Hazel, Peter H., assignor of one-half to B. H. Castleberry, Salem, Ark. Cattle-guard	608,426	Aug. 2	467	105	84	748
Hazeley, James R., Philadelphia, Pa. Time-lock	601,341	Mar. 29	3075	694	82	1884
Hazelrigg, Albert W., Indianapolis, Ind. Fishing-reel	610,604	Sept. 13	855	196	84	1621
Hazelton, Asa, and C. H. Rigg, Middletown, Mo. Bouquet-holder	611,363	Sept. 27	2241	517	84	1925
Hazelton Boiler Company. (See Kennedy and Williamson, assignors.)						
Hazlet, John D., Cincinnati, Ohio. Taper attachment for lathes	607,744	July 19	2216	469	84	465
Hazlette, Herbert S., <i>et al.</i> (See Boykin, Christopher C., assignor.)						
Hazlewood, Lee H. (See Ritter and Hazlewood.)						
Hazlewood, Sarah A., Lexington, Va. Domestic oven	611,684	Oct. 4	160	39	85	34
Head, Frederick A., and T. L. Regester, assignors to Rock Island Plow Company, Rock Island, Ill. Cultivator	611,036	Sept. 20	1600	367	84	1784
Headly, Angus, assignor of one-half to S. Condit, Somerville, Mass. Broom-holder	612,844	Oct. 25	2253	538	85	474
Heagerty, Jeremiah, Oswego, N. Y. Crate	596,706	Jan. 4	450	101	82	87
Heagle, Chauncey, and J. Topp, Johnstown, N. Y. Wristlet	615,389	Dec. 6	328	77	85	1476
Heald, Alfred, Philadelphia, Pa. Woven fabric	605,783	June 14	1333	305	83	1626
Healy, John, <i>et al.</i> (See Keeler, Charles S., assignor.)						
Healy, Thomas, and T. H. Kraft, Rockford, Ill. Rotary steam-drier	599,386	Feb. 22	2281	538	82	1091
Healy, William P. (See Rosback, Frederick P., assignor.)						
Heany, John A., Philadelphia, Pa. Wheel for vehicles	612,101	Oct. 11	911	221	85	189
Heany, John A., Philadelphia, Pa. Wheel for vehicles	612,102	Oct. 11	912	222	85	189
Heany, John A., Philadelphia, Pa. Wheel for vehicles	612,103	Oct. 11	912	222	85	189
Heany, John A., Philadelphia, Pa. Wheel for vehicles	616,463	Dec. 27	2324	541	85	1920
Heap, Arthur C. (See Elphinstone and Heap.)						
Heard, Thomas M., Cleveland, Ohio. Eyeglasses	598,928	Feb. 15	1462	349	82	913
Hearing, Samuel D., Nelsonville, Ohio. Device for writing in duplicate	612,339	Oct. 11	1325	319	85	265
Hearn, Robert H., Dyer, Tenn. Lock	603,951	May 10	1279	291	83	865
Hearn, Walter H., <i>et al.</i> (See Baker, Cyrus N., assignor.)						
Hearn, William H. (See Wright, Aaron, assignor.)						
Hearns, Robert, assignor of one-half to S. Black, St. Paul, Minn. Sealing attachment for bottles	598,929	Feb. 15	1463	350	82	913
Hearson, Thomas A., London, England. Fastening for cranks	609,433	Aug. 23	2354	555	84	1162
Heath, Annie M., London, England. Buttonhole-casing	604,470	May 24	2304	523	83	1115
Heath, Frederick H., Tacoma, Wash. Ball-bearing eccentric	596,678	Jan. 4	388	88	82	77
Heath, Frederick H., Tacoma, Wash. Dredging-excavator	598,988	Feb. 15	1575	373	82	936
Heath, Frederick H., Tacoma, Wash. Thrust-bearing for shafts	599,040	Feb. 15	1664	393	82	954
Heath, Frederick H., Tacoma, Wash. Bicycle-brake	603,331	May 3	154	36	83	631
Heath, Frederick H., Tacoma, Wash. Suction-dredge	607,237	July 12	1139	243	84	236
Heath, Frederick H., Tacoma, Wash. Joint for compasses, &c.	610,354	Sept. 6	410	87	84	1518
Heath, George S., Revere, and M. L. Severy, Arlington, Mass., assignors, by mesne assignments, to McCann Megagraph Company, Kittery, Me. Machine for printing bulletins, posters, &c.	616,233	Dec. 20	1894	438	85	1814
Heath, Heber L., assignor to H. and L. Block, San Francisco, Cal. Glove	611,250	Sept. 27	2010	463	84	1882
Heath, Mark A., assignor to American Cotton-Bale Company, Providence, R. I. Metallic bale-covering	608,042	July 26	2820	600	84	601



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Heath-Quimby Company. (See Anderson, Charles, assignor.)						
Heath, Thomas S., Cross Timbers, Mo. Single-wheel sulky and device for attaching horses thereto	605,099	June 7	58	17	83	1363
Heath, Webster L. (See Holmes and Heath.)						
Heath, William E., Baltimore, Md. Shoe-lace fastener	613,416	Nov. 1	373	86	85	686
Heatly, Francis T., Camanche, Iowa. Table attachment for chairs or beds	605,100	June 7	59	18	83	1364
Heaton, Caroline A., <i>et al.</i> (See Heaton, John W., assignor.)						
Heaton, George E., Three Rivers, Mich. Railway-velocipede and driving mechanism	601,439	Mar. 29	3240	{ 730 731	{ 82	1916
Heaton, John S., Philadelphia, Pa. Garment-hanger	609,743	Aug. 23	2921	683	84	1269
Heaton, John W., assignor of three-fourths to C. A. Heaton, S. Stephens, and A. C. Ayres, Indianapolis, Ind. Machine for tonguing and grooving lumber	600,785	Mar. 15	2100	480	82	1659
Heaton, Rolla, Marcelline, Ill. Post-driver	610,811	Sept. 13	1210	{ 278 279	{ 84	1693
Hebaus, Joseph R., assignor of one-half to F. P. Conroy, Butte, Mont. Apparatus for extracting precious metals	603,904	May 10	1207	273	83	851
Hebbon Machine and Cloth Finishing Company. (See Hebbon, William, assignor.)						
Hebbon, William, Boston, Mass., assignor to Hebbon Machine and Cloth Finishing Company, Portland, Me. Machine for pressing cloth or fabric	607,796	July 19	2312	489	84	483
Hebenstreit, Emil H., Milwaukee, Wis. Apparatus for forming tufted upholstery	612,497	Oct. 18	1592	380	85	330
Heberer, Adam, Alameda, Cal. Header for sectional steam-generators	613,838	Nov. 8	1094	249	85	845
Heberger, John F., Cincinnati, Ohio. Washing-machine	606,782	July 5	283	58	84	56
Heberlein, Ferdinand. (See Huntington and Heberlein.)						
Hecht, Albert S., Chicago, Ill. Parcel-elevator	607,850	July 26	2455	521	84	529
Hecht, Berthold. (See Schneider and Hecht.)						
Heck, William T. (See Field and Heck.)						
Heckaman, Benjamin F., Bremer, Ind. Automatic watering-trough	610,707	Sept. 13	1021	236	84	1656
Heckendorn, William H., <i>et al.</i> (See Raby, Richard, assignor.)						
Heckert Light Company. (See Heckert, William, assignor.)						
Heckert, William, Findlay, Ohio, assignor to Heckert Light Company, of Ohio. Acetylene-gas generator	612,845	Oct. 25	2254	538	85	474
Hedderick, Edward F. and L. J., Flora, Ind. Washboard	610,708	Sept. 13	1022	236	84	1656
Hedderick, Leander J. (See Hedderick, Edward F. and L. J.)						
Hedge, James A., Los Angeles, Cal. Amalgamator	596,968	Jan. 4	893	{ 210 211	{ 82	174
Hedgeland, Frederick W., Chicago, Ill. Acetylene-gas generator	600,614	Mar. 15	1811	415	82	1603
Hedgeland, Frederick W., Chicago, Ill. Acetylene bicycle-lamp	608,403	Aug. 2	424	93	84	740
Hedgeland, Frederick W., Chicago, Ill. Acetylene-gas-generator lamp	616,464	Dec. 27	2325	542	85	1920
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Paper-perforating machine	599,560	Feb. 22	2613	613	82	1156
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Pneumatic motor	605,876	June 21	1533	353	83	1681
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Pneumatic motor	611,629	Oct. 4	61	15	85	14
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Wind-motor for self-playing instruments	612,163	Oct. 11	1016	{ 244 245	{ 85	209
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Self-playing instrument	612,164	Oct. 11	1018	245	85	209
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Music-roll mechanism for self-playing instruments	613,924	Nov. 8	1238	281	85	873
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Speed-regulating mechanism for music-sheets of automatic instruments	614,864	Nov. 29	2948	677	85	1247
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Mechanism for driving music-rolls in self-playing instruments	615,850	Dec. 13	1143	267	85	1649
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Valve for pneumatic motors	616,323	Dec. 20	2058	479	85	1847
Hedrick, Ira G. (See Waddell and Hedrick.)						
Hedwall, Charles J., <i>et al.</i> (See Carlson, Carl, assignor.)						
Heebner, Samuel Y. (See Kennedy, Charles W., assignor.)						
Heelan, Lawrence W., assignor of one-half to W. S. Stone, Dallas, Tex. Inflatable tire	606,141	June 21	2049	469	83	1777
Heer, Henry, Jr., Alliance, Ohio. Ditching-jack	597,849	Jan. 25	2406	560	82	518
Heer, Isak, Zurich, Switzerland. Thread-tension device	605,101	June 7	60	18	83	1364
Heeren, William, Pittsburg, Pa. Sign	608,963	Aug. 9	1456	345	84	955
Heermans, Thaddeus W., Chicago, Ill. Automatic stop mechanism for elevators	602,660	Apr. 19	1858	423	83	382
Heesem, Peter, Pittsburg, Pa. Car-fender	616,102	Dec. 20	1628	381	85	1761
Hefel, Toney C., assignor of one-half to C. H. Russey, Muncie, Ind. Filtering plant for waterworks	603,483	May 3	437	97, 98	83	685
Hefel, Toney C., assignor of one-half to C. H. Russey, Muncie, Ind. Filtering plant for waterworks	611,317	Sept. 27	2148	{ 496 497	{ 84	1908
Heffner, S. Anna. (See Heffner, William E., assignor.)						
Heffner, William, Benton Harbor, Mich. Nut-wrench	608,120	July 26	2936	629	84	625
Heffner, William E., assignor to S. A. Heffner, Canton, Ohio. Store-service ladder	610,234	Sept. 6	176	39	84	1476
Heffron, Wallace W., and F. T. Rice, Tower City, N. D. Safety-gate for bridges	613,568	Nov. 1	630	146	85	736
Hefley, Jefferson D., Cameron, Tex. Advertising device	608,855	Aug. 9	1263	294	84	919
Hefley, Jefferson D., Cameron, Tex. Impelling device for bowling-hoops	616,707	Dec. 27	2796	648	85	2008
Heflick, Samuel F., Pittsburg, Pa. Rein-support	613,144	Oct. 25	2729	644	85	570
Hefner, William H., Rock Hill, S. C. Wheel-tire	604,529	May 24	2405	548	83	1132
Hegeler, Edward C., La Salle, Ill. Zinc-smelting furnace	612,104	Oct. 11	913	222	85	189
Hegeler, Herman, La Salle, Ill. Apparatus for applying grease to sheet-zinc	608,675	Aug. 9	913	210	84	856
Hegg, Thomas O., assignor of one-half to H. M. Hays, Oshkosh, Wis. Combined match-safe and cigar-clipper	612,664	Oct. 18	1909	452	85	389
Heggem, Charles O., assignor to Russell & Co., Massillon, Ohio. Governor	603,039	Apr. 26	2505	568	83	520
Heidenreich, George, Lockport, N. Y. Cigar-vending machine	616,324	Dec. 20	2059	{ 479 480	{ 85	1847
Heidenreich, Karl. (See Kahn and Heidenreich.)						
Heider, John. (See Scherer, Joseph, assignor.)						
Heil, Albrecht, Fränkisch Crumbach, Germany. Galvanic cell	607,590	July 19	1960	407	84	417
Heilborn, Franz J., Plainville, Mass. Bicycle-alarm	597,829	Jan. 25	2369	553	82	510
Heilbronner Copierbucher Fabrik C. Holzwarth. (See Kahn, Abraham, assignor.)						
Heiligendörfer, Ernst, Canelas, Mexico. Chloridizing silver ores	597,238	Jan. 11	1352	-----	82	278
Heilman, Charles S., Philadelphia, Pa., assignor of three-fourths to J. S. Thompson, North Tonawanda, N. Y. Telephone-exchange system	613,086	Oct. 25	2552	607	85	534
Heilman, Daniel. (See Hall and Heilman.)						
Heilman, George D. (See Hall and Heilman, assignors.)						
Heilmann, Jean J., Paris, France. System of electrical propulsion for vessels	602,325	Apr. 12	1276	282	83	257
Heimann, Johann, Cologne-Bayenthal, Germany. Means for inflating pneumatic tires	610,966	Sept. 20	1477	337	84	1761



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Heimlich, John, Oak Harbor, Ohio. Heater for expanding air	614,717	Nov. 22	2671	609	85	1177
Hein, Nicholas, Chilton, Wis. Windmill	603,188	Apr. 26	2764	630	83	570
Heindl, Joseph E., assignor of one-half to C. E. Buek, Richmond, Va. Valve	598,248	Feb. 1	312	72	82	661
Heine, Alfred N., and W. K. H. Woerner, Evansville, Ind. Gate-valve	600,363	Mar. 8	1357	311	82	1498
Heine, Alfred N., and G. A. Nonweiler, Evansville, Ind. Table	604,322	May 17	2015	451	83	1041
Heine, Arthur, Leipsic, Germany. Striking apparatus for string instruments	600,150	Mar. 8	1015	227	82	1432
Heine, Arthur, Leipsic, assignor to I. T. Müller, Dresden, Germany. Striking apparatus for string instruments	607,434	July 19	1503	320	84	323
Heine, August, and G. S. Mack, Silver Creek, N. Y.; said Mack assignor to said Heine.} Confectioner's separating and filling machine	609,583	Aug. 23	2631	615 616	84	1213
Heine, Frederick, Baltimore, Md. Extension-ladder	606,458	June 28	2654	611	83	1915
Heine, Heinrich, Hanover, Germany. Writing-desk	602,326	Apr. 12	1278	282 283	83	258
Heine, Kurt. (See Krause and Heine.)						
Heineke, Martin. (See Sattley and Heineke.)						
Heineken, Theodore S., Burlington, N. J. Holder for washbasins	599,706	Mar. 1	55	13	82	1227
Heineken, Theodore S., Burlington, N. J. Clamping and pivot-supporting device	606,866	July 5	434	93	84	85
Heineken, Theodore S., Burlington, N. J. Artificial tooth	616,666	Dec. 27	2718	631	85	1993
Heinemann, Albert, Berlin, Germany. Siphon for beer, &c	615,169	Nov. 29	3527	811	85	1360
Heinemann, Moritz, Bielefeld, Germany. Machine for securing in position bottoms of pasteboard boxes, &c	600,871	Mar. 22	2246	512	82	1699
Heinen, Christopher. (See Hillermann and Heinen.)						
Heinig, Frederick E., assignor of one-half to C. Pope, Louisville, Ky. Cigar-tip protector	603,639	May 10	733	164	83	759
Heinrich, Bruno, and C. Wood, San Francisco, Cal. Marine recording-compass	597,166	Jan. 11	1239	291	82	257
Heins, Charles L. (See Patten and Maver, assignors.)						
Heins, John J., New York, N. Y. Can or receptacle for fruit	606,838	July 5	386	82	84	77
Heinsohn, T. K. (See Springer, Clifton F., assignor.)						
Heintz, John A., Menomonee, Wis. Protector for tool-handles	606,211	June 28	2180	501	83	1820
Heinz, William H., Dayton, Ohio. Scrubber	607,040	July 12	729	157	84	162
Heinze, Ali, assignor of one-half to L. Brandt, Milwaukee, Wis. Bridge-gate	614,865	Nov. 29	2949	677	85	1247
Heinzelman, Reginald. (See Timken and Heinzelman.)						
Heinzerling, J. E. (See Wilson, Charles C., assignor.)						
Heinzman, George, New York, N. Y. Head for stringed instruments	608,856	Aug. 9	1264	294	84	919
Heiron, Alban. (See Toffelmier and Heiron.)						
Heise, Fritz H., Gelsenkirchen, Germany. Machine for winning stone or coal	601,467	Mar. 29	3286	743	82	1925
Heise, Fritz H., Gelsenkirchen, Germany. Coal-winning mechanism	611,810	Oct. 4	377	91	85	75
Heisel, Henry, assignor of one-half to C. A. Staples, Stillwater, Minn. Cigar-support	598,091	Feb. 1	35	9	82	610
Heiser, Michael, Euclid, Ohio. Heel-plate for men's shoes	607,686	July 19	2124	445	84	447
Heiser, Valentine, and S. R. Moyer, assignors of one-third to H. A. Weller, Orwigsburg, Pa. Thread-cutter for sewing-machines	606,010	June 21	1803	415	83	1730
Heisey, John H., Monticello, Iowa. Wire-stretcher	606,760	July 5	233	50	84	47
Heitland, John H., Quincy, Ill. Fireplace-heater	605,713	June 14	1199	276	83	1601
Heitzman, George H., Jr. (See Snyder and Heitzman.)						
Heitzmann, William C., Union City, Ind. Casket-handle	613,925	Nov. 8	1240	281	85	873
Helander, Axel H., and C. O. Lindroth, assignors to Southwark Foundry and Machine Company, Philadelphia, Pa. Compressor or blowing-engine	616,667	Dec. 27	2720	632	85	1993
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Detachable hinge	600,263	Mar. 8	1203	273	82	1468
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Detachable hinge	606,925	July 5	514	113	84	102
Heldmaier & New. (See Drummond, David D., assignor.)						
Heldreth, Joseph W., Camp, Va. Washing-machine	610,533	Sept. 13	731	166 167	84	1595
Helgeson, Martin and O., Linden, assignors of one-third to R. K. Rasmusson, Lake Crystal, Minn. Combined reel-carrier and feed-cart	601,807	Apr. 5	350	71, 72	83	66
Helgeson, Olaus. (See Helgeson, Martin and O.)						
Helios Carbide Specialty Company. (See Wells, Henry W., assignor.)						
Helios Electritats Actien-Gesellschaft. (See Feldmann, Clarence P., assignor.)						
Heller, Adam, assignor of one-half to J. P. B. Sadtler, Baltimore, Md. Ice-creeper	613,200	Oct. 25	2819	667	85	588
Heller, Peter J., Montclair, N. J. Harrow	615,272	Dec. 6	95	25, 26	85	1432
Hellier, Henry G., London, England. Game	610,534	Sept. 13	734	167	84	1596
Helling, Henry, Denver, Colo. Steam-trap	610,862	Sept. 13	1296	298	84	1712
Hellwig, Emma M., Chicago, Ill. Electric brush	604,471	May 24	2305	523	83	1115
Hellwig, Otto S. (See Gillett and Hellwig.)						
Helmboldt, Henry F., assignor, by mesne assignments, to A. M. Shurtleff, Boston, Mass. Toe-clip	597,183	Jan. 11	1265	296	82	262
Helmers, George, and W. Fesser, Clarksdale, Ill.; said Helmers assignor to said Fesser. Wire fence	612,846	Oct. 25	2257	539	85	475
Helmers, Ludwig O., assignor to Ichthyol Gesellschaft, Cordes, Hermann & Co., Hamburg, Germany. Iodin derivative of ichthyol and thiol	602,942	Apr. 26	2354	-----	83	493
Helmert, Bruno. (See Rosenberg and Helmert.)						
Helton, John W., Waterloo, Iowa, assignor to L. E. Eickelberg. Handsaw	610,900	Sept. 20	1366	313	84	1740
Helwig, William F. (See Detwiler, William A., assignor.)						
Hemann, Herman H., Germantown, Ill. Fastening device for wire fences	611,783	Oct. 4	330	79	85	67
Hemeke, Theodore. (See Gottschalk and Hemeke.)						
Hemingray, Ralph G., Muncie, Ind. Glass-press	614,303	Nov. 15	1904	440	85	1022
Hempstalk, John, Lyttelton, New Zealand. Weighing-scale	604,827	May 31	2925	669	83	1251
Hempstead, Beall, New York, N. Y. Bicycle	598,511	Feb. 8	756	182	82	763
Hemsley, Alexander, Philadelphia, Pa. Flash-light-powder apparatus	606,340	June 28	2439	565	83	1873
Hemstreet, John V., Herkimer, N. Y. Type-writer cabinet	613,270	Nov. 1	80	19	85	631
Hemstreet, John V., assignor to Standard Furniture Company, Herkimer, N. Y. Drawer-fastener	599,296	Feb. 15	2082	493	82	1031
Henckler, William, St. Louis, Mo. Fish-hook	615,170	Nov. 29	3529	811	85	1360
Hendershott, Edward L. (See Arner and Hendershott.)						
Henderson, Albert F., Boston, Mass. Curtain-pole	601,832	Apr. 5	394	83	83	74
Henderson, Archibald, <i>et al.</i> (See Russell, William, assignor.)						
Henderson, Arthur S., Loudon, Tenn. Music or copy holder	605,959	June 21	1708	391	83	1714
Henderson, James, assignor to Sheffield Car Company, Three Rivers, Mich. Stand-pipe for locomotives	596,590	Jan. 4	230	51	82	46
Henderson, James A. (See Woerner, Frank W., assignor.)						
Henderson, James P. (See Villard and Henderson.)						
Henderson, James S., Durham, Cal. Device for setting saws	613,817	Nov. 8	1068	243	85	840
Henderson, John. (See Turner, William, assignor.)						
Henderson, John C., New York, N. Y. Heat-economizer	604,046	May 17	1495	336 337	83	941
Henderson, John C., New York, N. Y. Gas heating and expanding device	606,660	July 5	42	10	84	11



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Henderson, John C., New York, N. Y. Heating or cooling apparatus .....	606,661	July 5	43	10	84	11
Henderson, John C., New York, N. Y. Pipe-joint packing .....	606,662	July 5	44	10	84	11
Henderson, John C., New York, N. Y. Apparatus for refining oils .....	606,783	July 5	285	58	84	57
Henderson, Mary E., Columbia, Mo. Can-top .....	610,049	Aug. 30	3464	803	84	1389
Henderson, Michael, Detroit, Mich. Tack-claw .....	598,306	Feb. 1	418	99	82	681
Henderson, Thomas J., Elena, Cal. Budding-knife .....	612,131	Oct. 11	959	231	85	197
Henderson, Thomas M., and T. E. Freeman, Portsmouth, Va. Hitching device .....	602,750	Apr. 19	2004	454	83	410
Hendrick, Eli E., Carbondale, Pa. Filter-press .....	601,833	Apr. 5	395	83	83	74
Hendrick, Eli E., Carbondale, Pa. Filter-press .....	612,105	Oct. 11	915	223	85	190
Hendrick, H. L., <i>et al.</i> (See Thomas, Martin E., assignor.)						
Hendrick Manufacturing Company. (See Bennett, Walter E., assignor.)						
Hendricks, Miles E., Amity, Oreg. Shoe-lace clasp .....	616,325	Dec. 20	2063	480	85	1848
Hendricks, Charles L., Princeton, Ind. Cabinet .....	599,387	Feb. 22	2285	540	82	1093
Hendricks, Henry F., and J. H. Denton, Philadelphia, Pa., assignors to J. H. Bates, Somerset, Ky. Trolley-guard .....	597,282	Jan. 11	1417	333	82	291
Hendricks, John J., <i>et al.</i> (See Jacklin, Thomas G., assignor.)						
Hendricks, Thurn E., Austin, Ark. Bag-catcher for postal cars .....	597,061	Jan. 11	1059	249	82	223
Hendricks, William W., Bolivar, Mo. End-gate fastener .....	601,320	Mar. 29	3045	686	82	1879
Hendrickson, Edward P., New York, N. Y. Hand-strap for cars .....	615,986	Dec. 13	1399	327	85	1698
Hendrickson, John F., <i>et al.</i> (See Reid, Robert, assignor.)						
Hendrickson, Loren E., and C. H. Read, assignors to said Read, C. L. Thomas, and O. L. Sturtevant, Ogden, Iowa. Dental tool .....	610,987	Sept. 20	1523	350	84	1769
Hendrickson, Sidney W., New York, N. Y. Combination bath and wash tub .....	611,630	Oct. 4	63	16	85	15
Hendrie, Theodore K. (See Rauhoff, John M., assignor.)						
Hendry, William A., <i>et al.</i> (See Thompson, William H., assignor.)						
Hendryx, Andrew B., assignor to A. B. Hendryx Company, New Haven, Conn. Propagation of oysters .....	611,199	Sept. 20	1902	438	84	1842
Henesey, John A., <i>et al.</i> (See Singleton, George W., assignor.)						
Henigan, John M., assignor of one-half to C. W. Watt, Uvalde, Tex. Rail-clamp .....	611,481	Sept. 27	2469	569	84	1967
Henion, Wakeman B., Chicago, Ill. Valve-seat .....	610,744	Sept. 13	1075	247	84	1666
Henis, William G., and F. Jamison, Philadelphia, Pa.; said Jamison assignor to said Henis. Baking-pan .....	598,512	Feb. 8	758	183	82	763
Henkel, George H., assignor to J. C. Russell Company, Middletown, Ohio. Parcel-carrier for bicycles .....	598,513	Feb. 8	759	183	82	764
Henkel, Gustav, Cassel, and H. von Rom, Stuttgart, Germany. Apparatus for pickling meats .....	603,082	Apr. 26	2593	589	83	535
Henkelman, Charles K. (See Courtney, Cyrus W., assignor.)						
Henkle, Edward A., Philadelphia, Pa. Printing and collecting or assembling numbered checks or leaves .....	614,809	Nov. 22	2830	651 652	85	1210
Henley, William I. (See Parker, Edmund A., assignor.)						
Henneberg, Gustav, and F. Bergmann, New York, N. Y. Sash-fastener .....	608,601	Aug. 9	775	178	84	828
Hennebique, François, Paris, France. Construction of joists, girders, and the like .....	611,907	Oct. 4	545	132	85	108
Hennebique, François, Paris, France. System of flooring of strengthened concrete .....	611,908	Oct. 4	546	132 133	85	109
Hennebique, François, Paris, France. Pile .....	611,909	Oct. 4	548	133	85	109
Hennegin, Herbert H., St. Louis, Mo. Gas-engine .....	597,771	Jan. 25	2258	526 527	82	489
Hennessy, James F., assignor to Winona Wagon Company, Winona, Minn. Vehicle running-gear .....	609,276	Aug. 16	2087	495	84	1090
Hennessy, James F., assignor to Winona Wagon Company, Winona, Minn. Bolster-stool .....	610,050	Aug. 30	3465	803	84	1389
Hennessy, Thomas, Excelsior Springs, Mo. Apparatus for producing acetylene gas .....	608,985	Aug. 9	1592	356	84	964
Hennessy, Thomas, Excelsior Springs, assignor to American Incandescent Gas Company, Kansas City, Mo. Heating and ventilating system .....	606,717	July 5	148	31, 32	84	31
Hennicke, Charles A., Buffalo, N. Y. Gearing .....	614,548	Nov. 22	2351	539	85	1120
Hennig, Charles T., Buffalo, assignor to J. R. Hatmaker, New York, N. Y. Means for utilizing fuel .....	609,744	Aug. 23	2922	683	84	1269
Hennig, Henry, Paterson, N. J. Steam-generating apparatus .....	601,793	Apr. 5	328	66	83	62
Hennig, Paul. (See Kurth, William, assignor.)						
Henning, George, assignor of two-thirds to W. Haley and F. F. Brierly, Beaver Falls, Pa. Glass-press .....	598,930	Feb. 15	1464	350	82	914
Henning, George W., Mount Holly, Ohio. Wrench .....	604,753	May 31	2813	643	83	1229
Henning, Gustavus C., assignor to C. W. Hunt Company, New York, N. Y. Transmission-rope coupling .....	597,675	Jan. 18	2096	491	82	441
Henning, Norval C., assignor of one-third to M. Rice, New Vienna, Ohio. Process of and apparatus for generating oil-gas .....	616,418	Dec. 20	2236	522	85	1881
Henny, David C., Alameda, Cal. Hoop-lug .....	616,535	Dec. 27	2469	571	85	1947
Henries, Jabez P., Mount Vernon, N. Y. Caster .....	598,514	Feb. 8	761	183	82	764
Henriod, Charles E., Bienne, Switzerland. Explosive-engine .....	603,986	May 10	1331	305	83	875
Henry, Abijah F., Alamo, Ind. Vaginal syringe .....	602,751	Apr. 19	2006	454	83	410
Henry, Albert, Rochefort, France. Life-boat .....	602,684	Apr. 19	1902	433	83	390
Henry, Charles F. (See Henry, George E. and C. F.)						
Henry Disston & Sons. (See Smith and Shaw, assignors.)						
Henry, George E. and C. F., Philadelphia, Pa. Non-refillable bottle .....	605,227	June 7	316	72, 73	83	1411
Henry, George W., Oil City, Pa. Portable folding boat .....	598,989	Feb. 15	1576	374 405 406	82	936
Henry, James W., and A. Gunn, Wallace, Idaho. Grain-bagging machine .....	611,121	Sept. 20	1766	406	84	1816
Henry, John C., Denver, Colo. Controller for electric cars .....	597,374	Jan. 11	1585	368	82	326
Henry, John C., Denver, Colo. Electric railway .....	606,663	July 5	45	11	84	11
Henry, John C., Denver, Colo. Electric railway .....	606,664	July 5	50	11	84	12
Henry, John C., Denver, Colo. Electric railway .....	606,990	July 5	613	133 134	84	121
Henry, John C., Denver, Colo. Electric railway .....	606,991	July 5	616	134	84	122
Henry, John C., Denver, Colo. Electric railway .....	610,445	Sept. 6	566	125 126	84	1547
Henry, Lyman. (See Woods and Henry.)						
Henry R. Worthington. (See Caldwell, Andrew J., assignor.)						
Henry, Rose A., administratrix. (See Henry, William J.)						
Henry, William A., and C. N. Brady, assignors to Hazel Glass Company, Washington, Pa. Press for making articles of glassware .....	603,952	May 10	1280	291	83	865
Henry, William J., <i>et al.</i> (See Olmstead, Gus E., assignor.)						
Henry, William J., deceased; R. A. Henry, Portland, Me., administratrix. Trunk-fastening .....	603,083	Apr. 26	2594	589	83	536
Henry, William K., New Britain, Conn. Pneumatic door-check .....	597,715	Jan. 25	2168	507	82	472
Henschel, Karl F. W., Dresden, Germany. Reciprocating engine .....	598,515	Feb. 8	762	183 184	82	764



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Hensel, August. (See Eisenenger, George, assignor.)						
Hensel Colladay Company. (See Poyet, John B., assignor.)						
Hensel, William, Cincinnati, Ohio. Fire-escape	600,346	Mar. 8	1330	304	82	1493
Hensey, James, Warren, Ark. Cattle-guard	597,977	Jan. 25	2627	613 614	82	560
Hensler, Joseph A., assignor to Common Sense Patenting Company, Akron, Colo. Monkey-wrench	608,520	Aug. 2	626	141	84	779
Hensler, Joseph A., Akron, Colo., assignor to Common Sense Patenting Company, of Colorado. Stopper-guard for bottles	610,535	Sept. 13	735	167	84	1596
Henszey, William P., et al. (See Austin, William L., assignor.)						
Henszey, William P., et al. (See Vauclain, Samuel M., assignor.)						
Henwood, Alfred, et al. (See Bouton, Samuel, assignor.)						
Henwood, Edwin, Hermansville, Mich. Wrench	603,530	May 3	542	119	83	705
Heon, George, Ste. Anne du Sault, Canada. Whiffletree connection	611,735	Oct. 4	257	62	85	53
Hepburn, Charles G. (See Davidson and Hepburn.)						
Hepburn, Charles G., Sydney, New South Wales. Apparatus for treating oils or fats	610,812	Sept. 13	1212	279 280	84	1694
Hepburn, Harry L. (See Parker, Alfred J., assignor.)						
Hepworth, Lewis. (See Graber and Hepworth.)						
Herald, Stephen, et al. (See Bowen, Shelby, assignor.)						
Herbener, John H., Northville, Mich. Chicken-brooder	608,043	July 26	2821	600 601	84	601
Herbener, John H., Northville, Mich. Adjusting device for thermometers	612,518	Oct. 18	1622	387	85	336
Herbener, Max. (See Evinghaus and Herbener.)						
Herbert, John F., Kingston, N. Y. Brush	601,056	Mar. 22	2554	582	82	1758
Herbert, Joseph, Oakland, Cal. Coin-controlled meter	603,104	Apr. 26	2625	596	83	542
Herbstritt, Herrmann. (See Faller and Herbstritt.)						
Hercht, Pauline G., Bogota, N. J. Bottle-stopper	605,481	June 14	780	179	83	1523
Herchert, Edwin J., Garnavillo, Iowa. Rotary engine	609,543	Aug. 23	2559	599	84	1199
Hercules Woodenware Company. (See Fisher and Reif, assignors.)						
Herder, Philip, Cleveland, Ohio. Extension step-ladder	603,848	May 10	1101	247	83	830
Herdman, Frank E., Winnetka, Ill. Automatic stop for hydraulic elevators	602,448	Apr. 19	1488	339 340	83	312
Herdman, Frank E., Winnetka, Ill. Switch for electric motors	603,849	May 10	1103	247 248	83	830
Herdrich, William F., assignor of two-thirds to S. Lichtenstein and A. Reinach, Chicago, Ill. Compound lock	613,629	Nov. 1	728	169	85	755
Herfurth, William, New York, N. Y. Merry-go-round	611,482	Sept. 27	2470	569 570	84	1967
Herhold & Sons, F. (See Herhold, William H., assignor.)						
Herhold, William H., assignor to F. Herhold & Sons, Chicago, Ill. Chair	611,251	Sept. 27	2011	464	84	1882
Herman, Albert R. (See Simrak, Samuel S., assignor.)						
Hermann, Isaac A., Cleveland, Ohio. Watchman's time-recorder	610,756	Sept. 13	1106	252	84	1672
Hermann, Johann E., assignor to Grempler & Hermann, New York, N. Y. Metal-beater hammer	607,510	July 19	1811	376 377	84	390
Hero Fruit Jar Company. (See Lamb, George B., assignor.)						
Herod, Howard H., Jr., Whiteville, Tenn. Fence	600,722	Mar. 15	2002	456	82	1640
Herold, Carl. (See Herold, Josef and C.)						
Herold, Josef and C., assignors to Rundwebstuhlfabrik, Herold & Richards, Braun, Austria-Hungary. Circular loom	608,676	Aug. 9	915	210 211	84	856
Herold, Victor, et al. (See Ricke, George H., assignor.)						
Herpin, Edward P., Baltimore, Md. Device for converting motion	611,318	Sept. 27	2151	497	84	1909
Herr, Frank. (See Herr, Cunningham, and Herr.)						
Herr, George, W. Cunningham, and F. Herr, Atwater, Minn. Harrow	608,121	July 26	2937	629 630	84	625
Herr, Homer A., Philadelphia, Pa. Adding-machine	609,885	Aug. 30	3169	741 742	84	1331
Herrell, Samuel W., Bull Run, Tenn. Burial-casket	605,639	June 14	1071	246	83	1577
Herren, Henry J., Watson, Mo. Elevator	610,901	Sept. 20	1367	313	84	1740
Herreshoff Manufacturing Company. (See Herreshoff, Nathaniel G., assignor.)						
Herreshoff, Nathaniel G., assignor to Herreshoff Manufacturing Company, Bristol, R. I. Attachment for steam-boilers	600,223	Mar. 8	1125	257	82	1455
Herreshoff, Nathaniel G., assignor to Herreshoff Manufacturing Company, Bristol, R. I. Steam-boiler	605,784	June 14	1335	306	83	1626
Herreshoff, Nathaniel G., assignor to Herreshoff Manufacturing Company, Bristol, R. I. Steam-boiler	605,785	June 14	1337	306	83	1626
Herreshoff, Nathaniel G., assignor to Herreshoff Manufacturing Company, Bristol, R. I. Steam-boiler	605,786	June 14	1339	306	83	1627
Herrett, Clarence J. (See McDonald, Frank, assignor.)						
Herrick, Robert F. (See Little, Charles H., assignor.)						
Herrick, Seth W., and C. R. Lunger, London, England. Hair-fastener	613,145	Oct. 25	2730	644	85	570
Herrick, William. (See McGlinchey, Charles E., assignor.)						
Herrick, William, assignor to Morgan & Wright, Chicago, Ill. Toe-clip for velocipedes	597,830	Jan. 25	2370	553 554	82	510
Herrick, William, assignor to Morgan & Wright, Chicago, Ill. Device for drawing air-tubes into pneumatic-tire casings	602,847	Apr. 26	2188	496	83	460
Herrick, William, assignor to Morgan & Wright, Chicago, Ill. Cement-injector for repairing pneumatic tires	616,572	Dec. 27	2529	585	85	1957
Herrin, Jeremiah, Warsaw, Ind. Mail-pouch	597,819	Jan. 25	2354	550	82	507
Herrin, Lemuel, Timpson, Tex. Combined knife and scale	598,225	Feb. 1	274	61	82	654
Herrington, Perry A., Hematite, assignor of one-half to J. L. Farley, De Soto, Mo. Motor for baby-rockers	613,037	Oct. 25	2559	607 608	85	535
Herrmann, Charles, et al. (See Boch, Philipp, assignor.)						
Herrmann, Frank. (See Berger and Herrmann.)						
Herron, James B., Chicago, Ill. Soda-fountain	613,678	Nov. 8	796	183	85	789
Herron, Samuel D., et al. (See Lee, Caleb, assignor.)						
Herschafft, Leonard R., Brooklyn, N. Y. Spool-holder	601,321	Mar. 29	3046	686	82	1879
Hersberger, Arthur C., Poolesville, Md. Oil-can	615,171	Nov. 29	3530	811	85	1360
Hersey, Frank E., et al. (See Lord, Charles F., assignor.)						
Hersey Manufacturing Company. (See Tilden, James A., assignor.)						
Hersey, Walter H. (See Lodge, Edward, assignor.)						
Hershaw, Erastus F., Abingdon, Ill. Motion-converting device for windmills	615,019	Nov. 29	3248	746	85	1306
Hershberger, Joseph W., Plymouth, Pa. Catch-basin for sewers	601,794	Apr. 5	330	66	83	62
Hershey, Martin E., and B. T. Allen, Harrisburg, Pa.; said Allen assignor to said Hershey Motor-governor	603,189	Apr. 26	2765	630 631	83	570
Herskovitz, Max, Chicago, Ill. Picture-frame	605,821	June 14	1402	321	83	1638



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Hertz, Alfred C., Bridgeport, Conn. Culinary vessel.....	616,573	Dec. 27	2530	586	85	1958
Hertzler, John. (See Keiper, Henry B., assignor.)						
Herz, Emanuel, Berlin, Germany. Heat-generating gas-burner .....	607,541	July 19	1869	388	84	401
Herzenberg, Louis. (See Nestmann and Herzenberg.)						
Herzheim, Alfred, assignor to Chemische Fabrik auf Actien, vormals E. Schering, Berlin, Germany. Waterproof paper .....	602,558	Apr. 19	1669		83	346
Herzig, Eduard, West Hoboken, N. J. Shuttle-changing mechanism for looms .....	616,234	Dec. 20	1905	440 441	85	1815
Herzog, Eduard, Erlach, Austria-Hungary. Apparatus for applying cop-tubes to spindles.....	610,605	Sept. 13	857	196	84	1621
Herzog, F. Benedict. (See Martin, Morris, assignor.)						
Herzog, Felix B., New York, N. Y. Electric signaling apparatus .....	596,774	Jan. 4	566	130	82	109
Herzog, Joseph J., Baltimore, Md. Letter-box .....	604,323	May 17	2016	451 452	83	1041
Hescoc, Charles O. (See Leonard and Hescoc.)						
Heselwood, James, Leeds, England. Machine for wringing clothes .....	605,290	June 7	447	99	83	1437
Heselwood, James, Leeds, England. Machine for folding curtains .....	606,341	June 28	2440	565 566	83	1873
Hesler, Dock N., Gallatin, Mo. Cultivator .....	598,422	Feb. 1	618	152	82	720
Hess, Charles, and H. R. Hutchins, Baltimore, Md. Machine for dampening sheets of paper.....	598,628	Feb. 8	967	233	82	804
Hess, Charles H. (See Cavanaugh and Hess.)						
Hess, Edward B., New York, N. Y., assignor to Metropolitan Register Company, of New York. Printing attachment for cash registers and indicators.....	616,708	Dec. 27	2797	648 649	85	2008
Hess, Edward B., New York, and J. M. Stoughton, Yonkers, N. Y. Type-writing machine.....	610,400	Sept. 6	495	108 109	84	1534
Hess, Edward B., New York, and J. M. Stoughton, Yonkers, assignors to Metropolitan Register Company, New York, N. Y. Cash register and indicator.....	597,676	Jan. 18	2098	491 492	82	441
Hess, Elihu. (See Moore and Hess.)						
Hess, Elmer J., Wyoming, Ohio. Spring .....	598,516	Feb. 8	763	184	82	765
Hess, Frederick, Jr., et al. (See Fallek, Nathan, assignor.)						
Hess, George A. (See Belles and Hess.)						
Hess, Harlem P. (See Dorn, Christian, assignor.)						
Hess, Henry K. (See Sadtler, Samuel P., assignor.)						
Hess, Henry K., Philadelphia, Pa. Primary battery .....	615,172	Nov. 29	3531	812	85	1361
Hess, John M., Ivester, Iowa. Feed-mill .....	615,173	Nov. 29	3534	812 813	85	1361
Hess, Retta, and M. H. Curtiss, Warsaw, Ind. School waste-poke .....	611,122	Sept. 20	1771	406	84	1817
Hess, Rolla W., St. Louis, Mo. Punching-bag. (Reissue) .....	11,648	Feb. 1	720	174	82	739
Hess, Rolla W., St. Louis, Mo. Punching-bag .....	615,700	Dec. 13	887	205	85	1600
Hess, Sarah A., Haynie, Wash. Funnel .....	611,962	Oct. 4	634	154	85	124
Hesse, Gustaf E., assignor of two-thirds to G. H. Robinson, New York, N. Y. Acetylene-gas lamp.....	606,385	June 28	2519	585	83	1887
Hessel, Peter, et al. (See Reardon, James A., assignor.)						
Hessel, Quintin R. (See Kuss, Henry F., assignor.)						
Hesseltine, Charles R. (See Columbus and Hesseltine.)						
Hester, Benjamin H., McAlester, Ind. Ter. Gate .....	612,039	Oct. 11	798	197	85	167
Hester, Ernest H., et al. (See Albury, Frederick L., assignor.)						
Hester, Thomas N. (See Murray, Kenneth S., assignor.)						
Heston, Frank E., and R. B. Harvison, Rushland, Pa. Air-compressor .....	608,964	Aug. 9	1457	345	84	955
Heston, William, assignor, by mesne assignments, to Homestead Valve Manufacturing Company, Homestead, Pa. Valve .....	607,238	July 12	1141	243	84	236
Heth, George W., Chicago, Ill. Pneumatic vehicle-tire .....	597,146	Jan. 11	1205	282	82	250
Hetherington, Frederick A., Indianapolis, Ind. Melting-kettle for preparing asphalt .....	606,011	June 21	1804	415	83	1731
Hetland, Torger R., Minneapolis, Minn. Milk-can cover .....	610,902	Sept. 20	1369	313	84	1741
Hettinger, John H., and B. P. Kincaid, assignors to C. W. and R. E. Shoemaker, Bridge-ton, N. J. Bottle or jar closure .....	603,640	May 10	735	164	83	759
Hettrick, William E., Toledo, Ohio. Adjustable awning .....	615,174	Nov. 29	3536	813	85	1362
Heuchan, Robert B., Commerce, Mo. Work-support for caskets, &c .....	602,220	Apr. 12	1102	242	83	222
Heusch, Anton, assignor of one-half to W. Zimmerman, Chicago, Ill. Twine-holder .....	609,934	Aug. 30	3252	759	84	1347
Heverly, Edward H., Centre Point, Iowa. Window-shelf .....	608,259	Aug. 2	155	38	84	685
Hevner, Peter, Philadelphia, Pa. Permanent way for railways.....	606,968	July 5	573	126	84	114
Hewens, Alfred, London, England. Manhole-cover .....	601,040	Mar. 22	2526	574	82	1752
Hewes, Henry M. (See Nason, Joseph H., assignor.)						
Hewes, James E., Philadelphia, Pa. Making calcium carbids .....	596,999	Jan. 11	952		82	202
Hewes, James E., Philadelphia, Pa. Electric furnace .....	598,318	Feb. 1	440	105	82	685
Hewett, John E., Wilmington, N. C. Bookbinding .....	602,401	Apr. 12	1408	317	83	284
Hewett, Thomas, assignor of one-half to T. K. Bellis, London, England. Wheel for chain-gearing .....	609,346	Aug. 16	2204	521	84	1114
Hewins, Willard G., Foxborough, Mass. Feeding device for sewing-machines .....	600,075	Mar. 1	816	188	82	1374
Hewitt, Carlton C. (See Butze and Hewitt)						
Hewitt, Isaac B., Philadelphia, Pa. Bicycle stand and lock .....	599,607	Feb. 22	2707	633	82	1174
Hewitt, John T. (See Reynolds and Hewitt.)						
Hewitt, Joseph F., Allegheny, Pa. Gas-burner .....	603,273	May 3	52	14	83	611
Hewitt, William, Hereford, England. Manufacture of tiles and apparatus therefor .....	598,781	Feb. 8	1215	295	82	850
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Electrically-controlled switch .....	603,786	May 10	979	218	83	807
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Circuit-breaker for three-wire systems.....	610,903	Sept. 20	1370	314	84	1741
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Safety device for dynamo-electric machines .....	610,904	Sept. 20	1371	314	84	1741
Hewlett, Richard T., London, England. Milk-sterilizer .....	608,198	Aug. 2	58	14	84	666
Hewson, Edward M., Stillwater, assignor of one-half to N. E. Syttle, Mechanicsville, N. Y. Steam-boiler gage-cock .....	601,142	Mar. 22	2687	616	82	1783
Hewson, John, Waldwick, N. J. Propelling mechanism for boats .....	609,026	Aug. 16	1597	380	84	997
Hey, George W., Syracuse, N. Y. Stamp-attacher.....	600,531	Mar. 15	1677	382 383	82	1579
Hey, Robert H., Philadelphia, Pa. Woven fabric .....	610,051	Aug. 30	3466	804	84	1389
Heydebrand Incandescent Light Company. (See Heydebrand und der Lasa and Loch, assignors.)						
Heydebrand und der Lasa, Ferdinand C. von, New York, and J. Loch, Brooklyn, assignors to Heydebrand Incandescent Light Company, New York, N. Y. Incandescent gas-lamp .....	605,250	June 7	369	84	83	1421
Heyl & Patterson. (See Acklin, Alfred M., assignor.)						
Heyland, Alexander, Frankfort-on-the-Main, Germany. Alternating-current motor .....	598,092	Feb. 1	35	9	82	610
Heylman, Edward M., assignor to Parlin & Orendorff Company, Canton, Ill. Disk plow .....	606,412	June 28	2572	495	83	1898



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Heylman, Edward M., assignor to Parlin & Orendorff Company, Canton, Ill. Plow.....	612,900	Oct. 25	2348	559	85	492
Heyman, Philip W. (See Sörensen, Sören P., assignor.)						
Heymann, Bernhard, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Blue dye and making same.....	606,212	June 28	2180		83	1820
Heymann, Edward and F. W., Boston, Mass. Testing apparatus for electric circuits....	598,517	Feb. 8	766	184 185	82	765
Heymann, Frank W. (See Heymann, Edward and F. W.)						
Heyrock, John, Cavalier, N. D. Machine for loading grain from threshing-machines into wagons or sacks.....	603,641	May 10	736	164	83	759
Heys, John J., assignor of one-half to M. V. Brésnahan, Lynn, Mass. Sole-molding machine.....	607,370	July 12	1372	293	84	282
Heywood Brothers & Wakefield Company. (See Collier and Rathburn, assignors.)						
Heywood, Charles H., Milwaukee, Wis. Printing-press.....	613,271	Nov. 1	82	19, 20	85	632
Heywood, William. (See Armstrong and Heywood.)						
Heywood, William A., <i>et al.</i> (See Bean and Watson, assignors.)						
Heywood, William B., Gualala, Cal. Safety-fender for street-cars.....	598,067	Jan. 25	2774	646	82	589
Heywood, William B., Gualala, Cal. Safety-fender for street-cars.....	600,224	Mar. 8	1127	257	82	1455
Heywood, William B., Berkeley, Cal. Automatic offset mechanism for sawmill-carriages.....	600,225	Mar. 8	1129	258	82	1455
Heywood, William B. and W. H., Gualala, Cal. Automatic car-fender.....	598,068	Jan. 25	2776	646 647	82	589
Heywood, William H. (See Heywood, William B. and W. H.)						
Hiatt, Christopher C., Winchester, assignor of one-half to J. W. Smith, Ridgeville, Ind. Fruit-jar.....	600,965	Mar. 22	2398	547	82	1728
Hiatt, Rufin. (See Hansard and Hiatt.)						
Hiatt, Rufus, Shelburn, Ind. Wagon.....	600,200	Mar. 8	1091	246	82	1447
Hibbard, George E., Chicago, Ill. Valve for automatic fire-extinguishers.....	599,099	Feb. 15	1748	415	82	900
Hibbard, George E., Chicago, Ill. Sprinkler-head for automatic fire-extinguishers.....	608,677	Aug. 9	918	211	84	857
Hibbard, Maury W., assignor to R. Fitzgerald, Chicago, Ill. Device for actuating fluid-pressure brakes.....	610,052	Aug. 30	3467	804	84	1389
Hibbard, William C. (See Higgins and Hibbard.)						
Hibbert, Arthur N. (See Hamel and Hibbert.)						
Hickey, John F., Ridgefield Park, N. J. Door-hanger.....	598,372	Feb. 1	519	126	82	770
Hickey, White W. M., San Francisco, Cal. Massage-machine.....	613,859	Nov. 8	1132	260	85	852
Hickmott, Harry, Brentwood, England. Sluice-box and bridge.....	616,326	Dec. 20	2064	480 481	85	1848
Hicks, Charles, Landport, England. Means for tuning pianofortes.....	601,322	Mar. 29	3047	686	82	1879
Hicks & Co., Stephen. (See Hicks, Stephen, assignor.)						
Hicks, Edward and H., Westbury, N. Y. Tree-moving apparatus.....	611,685	Oct. 4	161	39, 40	85	34
Hicks, Edwin J., Falls City, Nebr. Gate.....	608,330	Aug. 2	298	65	84	715
Hicks, Frank O., <i>et al.</i> (See Roach, Henry B., assignor.)						
Hicks, George C., Boston, Mass. Stove-lining.....	607,928	July 26	2603		84	557
Hicks, George F., <i>et al.</i> (See Roach, Henry B., assignor.)						
Hicks, Henry. (See Hicks, Edward and H.)						
Hicks, James J. (See Hill and Barnard, assignors.)						
Hicks, James J., and G. H. Zeal, London, England; said Zeal assignor to said Hicks. Means for indicating a ship's roll.....	609,231	Aug. 16	1996	473 474	84	1072
Hicks, John E., Columbus, Ohio. Domestic water-distiller.....	611,123	Sept. 20	1772	406	84	1818
Hicks, Joseph S., Jersey City, N. J. Clutch for drawing and straining wires.....	601,207	Mar. 22	2806	641	82	1806
Hicks, Leonard M., and J. Titus, Oyster Bay, N. Y. Two-wheeled vehicle.....	613,146	Oct. 25	2731	645	85	570
Hicks, Oliver B., assignor of one-half to W. F. Owens, Chicago, Ill. Locking device for telescope-boxes.....	615,552	Dec. 6	629	144	85	1534
Hicks, Stephen, assignor to S. Hicks & Co., New York, N. Y. Saw-filing machine.....	612,774	Oct. 18	2101	498 499	85	426
Hicks, Thomas H., Fort Wayne, Ind. Gas-engine.....	606,386	June 28	2520	585	83	1888
Hidden, Enoch, <i>et al.</i> (See Hidden, George A., assignor.)						
Hidden, George A., assignor of two-thirds to A. H. Lawrence and E. Hidden, Phoenix, Ariz. Ter. Horse-controlling device.....	605,045	May 31	3291	755	83	1322
Hidden, William B., Boston, Mass. Inhaler.....	604,935	May 31	3115	715	83	1288
Hider, Peter L., Ottawa, Kans. Explosive-engine.....	599,235	Feb. 15	1974	468	82	1010
Hieatzman, Arthur H., assignor of one-half to N. B. Lobe and E. M. Manger, Baltimore, Md. Car advertising device.....	616,235	Dec. 20	1908	441 442	85	1816
Hien, Phillip, Chicago, Ill. Car-coupling.....	598,990	Feb. 15	1577	374	82	936
Hiett, John, Highland, Tenn. Broom-clamp.....	608,773	Aug. 9	1075	247	84	885
Higbee, Clinton A., Philadelphia, Pa. Screw union or coupling.....	597,000	Jan. 11	953	226	82	202
Higbee, Edwin W. (See Neff, Elijah, assignor.)						
Higbee, Jesse T., assignor of one-half to J. L. Smith, Millville, N. J. Sprinkler.....	598,601	Feb. 8	914	219	82	794
Higdon, Jasper S., Quinlan, Tex. Bolt-holder.....	615,273	Dec. 6	97	26	85	1432
Higgin, Henry, Newport, Ky. Track device for operating signals, &c.....	596,591	Jan. 4	235	52	82	47
Higginbottom, James, Liverpool, England. Separating-machine.....	615,618	Dec. 6	738	170 171	85	1557
Higginbottom, Thomas. (See Rushworth and Higginbottom.)						
Higgins, Campbell P., Roselle, N. J. Machine for forming polygonal tubes.....	606,213	June 28	2181	501 502	83	1820
Higgins, Campbell P., Roselle, N. J. Riveting-machine.....	612,927	Oct. 25	2389	569	85	501
Higgins, Campbell P., Roselle, N. J. Making polygonal tubes.....	615,701	Dec. 13	889	206	85	1600
Higgins, Charles M. (See Phillips, Henry L., assignor.)						
Higgins, Charles M., Brooklyn, N. Y. Adhesive compound and producing same.....	604,584	May 24	2509		83	1153
Higgins, Charles M., New York, N. Y. Ink stand or bottle.....	607,993	July 26	2712	578	84	578
Higgins, Charles M., New York, N. Y. Adhesive compound.....	610,182	Sept. 6	55		84	1452
Higgins, Charles M., New York, N. Y. Compound for adhesive paste.....	610,183	Sept. 6	59		84	1452
Higgins, Charles R. (See Latshaw, Zachariah, assignor.)						
Higgins, Daniel, Boston, Mass. Sewer-trap.....	596,751	Jan. 4	527	120	82	102
Higgins, Frank L., Winthrop, Mass. Ball-bearing roller-cog wheel.....	598,629	Feb. 8	968	234	82	804
Higgins, George E., and W. C. Hibbard, Chicago, Ill. Valve for automatic sprinkler systems.....	614,718	Nov. 22	2674	609	85	1178
Higgins, Hubert, Cambridge, England. Cooking, drying, or sterilizing by steam.....	597,978	Jan. 25	2628	614	82	560
Higgins, Vernon G., Waddington, Cal. Tongs.....	603,084	Apr. 26	2595	599	83	536
Higgins, William, Newark, N. J. Combined spanker and breaster for boot or shoe making machines.....	600,264	Mar. 8	1204	273 274	82	1468
Higgins, William L., <i>et al.</i> (See Anderson, John A. E., assignor.)						
Higginson, Hugh. (See Dunlop, John, assignor.)						
Higgs, Marion F. (See Turbeville and Higgs.)						
Higham, Daniel, Boston, Mass., assignor to H. H. Higham, Philadelphia, Pa. Electric-arc lamp.....	605,714	June 14	1200	277	83	1601
Higham, Howard H. (See Higham, Daniel, assignor.)						
Highfield, George, Scranton, Pa. Non-refillable bottle.....	603,235	Apr. 26	2846	649	83	585



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Hignett, Percy N. (See Thurlow and Hignett.)						
Higson, John, London, England, assignor of one-half to W. Evans, Kearny, N. J. Bicycle-brake	606,626	June 28	2956	685	83	1974
Higuchi, Monnosuke, Sacramento, Cal. Type-writer	611,379	Sept. 27	2278	526 527	84	1932
Hikki, Robert, Maple, Wis. Mortising-bit	602,752	Apr. 19	2008	454	83	410
Hilberg, Emil, Essen-on-the-Ruhr, Germany. Sterilizing apparatus	610,709	Sept. 13	1024	236	84	1656
Hildburgh, Leo W., New York, N. Y. Telegraph	607,239	July 12	1142	244	84	236
Hildebrandt, Charles T., Decatur, Ill. Driving mechanism	604,754	May 31	2814	643	83	1230
Hildebrandt, Charles T., and F. R. McMullin, Chicago, Ill. Motor-driven vehicle	613,272	Nov. 1	86	20	85	632
Hildenbrand, Henry. (See Berger and Hildenbrand.)						
Hildreth, Henry L., Saginaw, Mich. Boiler-flue cleaner	604,047	May 17	1497	337	83	942
Hildreth, Le Roy M., New Haven, Conn. Bicycle-saddle	608,857	Aug. 9	1265	294 295	84	919
Hildt, Eugene. (See Baranoff and Hildt.)						
Hilgenstock, Gustav, Dahlhausen, Germany, assignor to United Coke and Gas Company, Charleston, W. Va., and Philadelphia, Pa. Coke-oven door	601,468	Mar. 29	3288	743	82	1925
Hill, A. C. (See McAlpine, William W., assignor.)						
Hill, Adelbert D., Stanton, Minn. Apparatus for cooling cream, &c	596,679	Jan. 4	390	88	82	78
Hill, Adelbert D., Stanton, Minn. Pasteurizing apparatus	612,106	Oct. 11	918	223	85	190
Hill, Alexander S., Bovine, S. D. Hitching-strap clamp	599,838	Mar. 1	311	70	82	1271
Hill, Ahron. (See Sussman and Hill.)						
Hill, Alfred, assignor of one-half to R. B. Galbreath, Denver, Colo. Lawn-mower	600,913	Mar. 22	2315	527	82	1712
Hill, Arthur E. B., New Westminster, Canada. Leveling-rod	613,147	Oct. 25	2732	645	85	570
Hill, Burton W., Somerville, Mass. Valve. (Reissue)	11,652	Mar. 1	975	217	82	1408
Hill, Burton W., Somerville, Mass. Steam-trap	604,860	May 31	2990	686 687	83	1263
Hill, Cassie, et al. (See Hill, William, assignor.)						
Hill, Charles F., Middle Branch, Ohio. Combination-lock	605,787	June 14	1341	306 307	83	1627
Hill, Charles L., assignor of one-half to W. Kimberling, Dennison, Ohio. Incubator	616,327	Dec. 20	2065	481 482	85	1848
Hill, Christian C., Chicago, Ill. Machine for rolling balls	600,532	Mar. 15	1582	384	82	1579
Hill, David T., Syracuse, Nebr. Lifting-jack	597,850	Jan. 25	2407	560	82	518
Hill, Edgar A., et al. (See Hill, Edward A., assignor.)						
Hill, Edgar C., Horse Cave, Ky. Ice-cream freezer	605,606	June 14	1003	231	83	1564
Hill, Edward A., assignor of two-thirds to J. L. Mallory and E. A. Hill, Chicago, Ill. Car-door bracket	607,511	July 19	1813	377	84	390
Hill, Edward A., assignor of two-thirds to J. L. Mallory and E. A. Hill, Chicago, Ill. Door for railway-cars	613,273	Nov. 1	91	21	85	633
Hill, Edward A., assignor of two-thirds to J. L. Mallory and E. A. Hill, Chicago, Ill. Car-door bracket	613,274	Nov. 1	92	21	85	634
Hill, Edward W., Corte Madera, Cal. Writing-tablet and note-book	606,718	July 5	152	33	84	31
Hill, Elijah W., Covington, Ohio. Land-anchor for posts	610,184	Sept. 6	63	13	84	1452
Hill, Frank A., and W. E. Shehan, St. Louis, Mo. Attachment for linotype-machines	602,904	Apr. 26	2280	520	83	477
Hill, Frederick, assignor of one-half to J. King, Moose Lake, Minn. Non-refillable bottle	598,782	Feb. 8	1217	295	82	850
Hill, Fredrick P., Chicago, Ill. Bookbinding-machine	604,170	May 17	1731	389 390	83	986
Hill, George, Ledbury, England. Spring-clasp	610,967	Sept. 20	1478	337	84	1762
Hill, George H., Milford, Ohio. Motor-vehicle	601,205	Mar. 22	2802	640 641	82	1805
Hill, George S., Sayre, Pa. Moistener for gummed surfaces	611,784	Oct. 4	331	80	85	67
Hill, George S., and D. A. Hitchcock, Bradford, assignors to G. W. Palmer, Haverhill, Mass. Sole-inking machine	613,446	Nov. 1	422	97	85	697
Hill, Harrison A., Huntsville, Kans. Post-brace	607,435	July 19	1504	320	84	323
Hill, Harry W., Cleveland, Ohio. Machine for straightening shafts, tubes, &c	606,214	June 28	2183	502 503	83	1821
Hill, Henry, Nottingham, England. Work-feeding mechanism for embroidering-machines	603,953	May 10	1283	292 293	83	866
Hill, Henry, Nottingham, England. Jacquard mechanism for embroidering-machines	604,755	May 31	2816	643	83	1230
Hill, Henry, Nottingham, England. Thread foundation for incandescent mantles	606,719	July 5	153	33	84	32
Hill, Henry, Nottingham, England. Jacquard mechanism for embroidering-machines	611,011	Sept. 20	1561	359 360	84	1777
Hill, Henry H., Chicago, Ill. Optical instrument	607,171	July 12	1008	219	84	212
Hill, Hugh, Anderson, Ind. Boring-tool	602,449	Apr. 19	1490	340	83	313
Hill, James A., Ravenswood, W. Va., assignor of one-half to A. E., A. D., and W. T. Cole, Maysville, Ky. Severing mechanism for aerial torpedoes	603,689	May 10	814	180	83	776
Hill, John E., Malden, Mass. Separable button	612,498	Oct. 18	1593	381	85	330
Hill, John K., London, England. Water-meter	608,602	Aug. 9	777	178	84	829
Hill, Leonard E., and H. L. Barnard, assignors of one-third to J. J. Hicks, London, England. Sphygmomanometer	598,343	Feb. 1	472	112	82	691
Hill Manufacturing Company. (See Cohen, Victor E., assignor.)						
Hill, Melnotte S., Canton, Miss. Pea or bean separator	611,785	Oct. 4	333	80	85	68
Hill, Norman N., East Hampton, Conn. Bicycle-bell	596,775	Jan. 4	570	131	82	110
Hill, Philip, Philadelphia, Pa. Luggage-carrier	613,038	Oct. 25	2561	608	85	536
Hill, Robert S., Detroit, Mich. Valve-gear for engines	611,430	Sept. 27	2378	546	84	1949
Hill, Royal V., assignor of one-half to J. King, Moose Lake, Minn. Umbrella	596,752	Jan. 4	529	121	82	102
Hill, Thomas. (See Cooper and Keys, assignors.)						
Hill, Warren S., Hyde Park, assignor to W. S. Hill Electric Company, Boston, Mass. Electric switch	596,506	Jan. 4	77	17	82	17
Hill, Wilber H. (See Schneider and Hill.)						
Hill, Wilford A., Waltham, assignor of one-half to J. C. Miller, Melrose, Mass. Knife-sharpener	611,686	Oct. 4	165	40	85	35
Hill, Wilford A., Waltham, assignor of one-half to J. C. Miller, Melrose, Mass. Toe-clip attachment for bicycle-pedals	615,217	Nov. 29	3652	838	85	1384
Hill, William, assignor to C. Hill and Palen & Burns, Buffalo, N. Y. Bicycle package-carrier	600,364	Mar. 8	1358	311	82	1498
Hill, William O., Spokane, Wash. Crochet or lace holder	606,215	June 28	2186	503	83	1822
Hillard, Frederic W., New York, N. Y. Type-writing machine	616,840	Dec. 27	3012	702	85	2053
Hillegas, George F., Lane county, Oreg. Draft equalizer	601,795	Apr. 5	331	67	83	62
Hiller, Karl G., Zittau, Germany. Pneumatic tire	616,574	Dec. 27	2531	586	85	1958
Hiller, Nicolai H., Carbondale, Pa. Gage for boilers	613,447	Nov. 1	425	97	85	697
Hillermann, August, and C. Heinen, Henrietta, Tex. Cotton-chopper	615,175	Nov. 29	3538	814	85	1362
Hilles, Jesse. (See Huff, Slaughter W., assignor.)						
Hilliker, Elmer E., Kearney, Nebr. Carriage-wrench	607,436	July 19	1505	320	84	324
Hillischer, Hermann T., Vienna, Austria-Hungary. Electric railway	615,176	Nov. 29	3540	814	85	1362
Hillman, Benjamin J., Victor, Colo. Combination-tool	606,547	June 28	2818	649	83	1947



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Hillman, Henry H., Derby, England. Apparatus for sifting flour .....	596,507	Jan. 4	78	18	82	17
Hillman, James A., and H. M. Reed, Homestead, Pa. Window-shade supporter .....	603,059	Apr. 26	2536	576	83	526
Hillman, William, Coventry, England. Manufacture of velocipede-frames .....	608,678	Aug. 9	921	211 212	84	857
Hills, Albert S., Springfield, Mass. Shower-bath apparatus .....	616,668	Dec. 27	2723	632	85	1994
Hills, Arnold F. (See Snell and Grove, assignors.) .....						
Hills, Ernest E., Medina, Wis. Seed-drill .....	598,093	Feb. 1	38	9, 10	82	610
Hills, Fred, <i>et al.</i> (See Lonergan, Philip J., assignor.) .....						
Hills, James E., New York, N. Y. Display-card .....	615,702	Dec. 13	890	206	85	1601
Hilt, Allen, <i>et al.</i> (See Chase, Newton D., assignor.) .....						
Hilt, Edward. (See Scherer and Hilt.) .....						
Hilt, Joseph, Maroa, Ill. Lid-holder .....	602,753	Apr. 19	2009	455	83	411
Hilt, Wilmer, <i>et al.</i> (See Chase, Newton D., assignor.) .....						
Hilton, Arthur G. (See Wallace and Hilton.) .....						
Hilton, Arthur G., and J. H. Wallace, Fort Fairfield, Me. Compound rotary engine .....	609,027	Aug. 16	1599	380 381	84	997
Hilton, John, Philadelphia, Pa. Harness-motion for looms .....	612,645	Oct. 18	1877	444	85	383
Hilton, John L., Elkton, Ky. Wire-stretching tool .....	598,981	Feb. 15	1467	351	82	915
Himes, John F., Roaring Spring, Pa. Feed for top rolls of grist-mills .....	602,754	Apr. 19	2010	455	83	411
Himes, Judson W., assignor of one-half to G. Simpson and H. T. Browne, Elma, Wash. Nut-lock .....	613,630	Nov. 1	729	170	85	756
Himmeger, Joseph T., La Rue, Ohio. Electric street-car trolley .....	598,661	Feb. 8	1021	246	82	813
Hinchcliffe, Charles W. (See Wilde and Hinchcliffe.) .....						
Hinchcliffe, Robert, Chicago, Ill. Rail-joint .....	609,101	Aug. 16	1759	419	84	1025
Hinchcliffe, William, Huntsville, Ala., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Spinning-spindle .....	602,987	Apr. 26	2426	552	83	505
Hinchman, Mortimer L., Brooklyn, N. Y. Envelop .....	598,290	Feb. 1	397	94	82	677
Hinckley, Howard V., Topeka, Kans. Apparatus for developing and regulating water-supply .....	614,653	Nov. 22	2553	582	85	1155
Hinde, William L. B. (See Mackay, Edith M. M., assignor.) .....						
Hindmarsh, Percy J., Topeka, Kans. Seat-post for bicycles .....	600,365	Mar. 8	1360	311	82	1498
Hinds, Jesse L., assignor of one-half to H. B. Crouse, Syracuse, N. Y. Electric switch .....	597,979	Jan. 25	2629	614	82	560
Hines, Andrew, Dublin, Ky. Gate .....	608,331	Aug. 2	299	66	84	715
Hines, Oliver C., Jewett, assignor of one-third to L. I. Ward, Cadiz, Ohio. Permutation-padlock .....	597,980	Jan. 25	2632	615	82	561
Hines, Raymond, Cresson, Pa. Nut-lock .....	616,103	Dec. 20	1629	381	85	1761
Hineson, Thomas, Ashton-under-Lyne, England. Steam-boiler furnace .....	602,755	Apr. 19	2011	455 456	83	411
Hink, J. F. (See White, Charles G., assignor.) .....						
Hinken, John H., Louisville, Ky., assignor to J. E. Turney Drying Machinery Company, Chicago, Ill. Filter-press .....	607,929	July 26	2603	552	84	557
Hinkle, George J., Denison, Tex. Bank-protecting device .....	598,477	Feb. 1	694	169	82	734
Hinkle, William A., Forsyth, Ill. Straw-stacker .....	603,040	Apr. 26	2507	569	83	520
Hinkley, George M., assignor of one-half to Edward P. Allis Company, Milwaukee, Wis. Saw-guide .....	602,943	Apr. 26	2355	537	83	493
Hinkley, George M., assignor of one-half to Edward P. Allis Company, Milwaukee, Wis. Roll for saw-stretching machines .....	608,774	Aug. 9	1077	248	84	886
Hinkson, William J., North Hope, Pa. Bicycle-brake .....	612,728	Oct. 18	2016	478	85	410
Hinman, Bertrand C., New York, N. Y., assignor to Gold Extraction and Bromine Recovery Company, Limited, London, England. Process of and apparatus for extracting gold from ores .....	611,998	Oct. 4	708	171	85	139
Hinman, Charles W., Boston, Mass. Prepayment gas-meter .....	603,850	May 10	1107	249	83	832
Hinman, Clement F., Chicago, Ill. Grading and ditching machine .....	606,216	June 28	2187	504 505 506	83	1822
Hinman, Curtis, Akron, Ohio. Thill-cultivator .....	601,469	Mar. 29	3289	743	82	1925
Hinman, George. (See Müller and Hinman.) .....						
Hinman, Lucius B., New Haven, Conn. Photograph-holder .....	603,878	May 10	1162	262	83	842
Hinsdale, Charles M., Newton, Iowa. Checkrein-holder .....	612,418	Oct. 18	1462	353	85	305
Hinsdale, William R., Evanston, Ill. Stone-dressing machine .....	600,989	Mar. 22	2440	557	82	1735
Hinterholzer, Henry, New York, N. Y. Permutation-lock for boxes .....	616,104	Dec. 20	1630	381	85	1761
Hinthorn, Jesse B., Hiawatha, Kans. Shade-trimmer .....	606,548	June 28	2819	649	83	1948
Hinton, Samuel A., Altoona, Pa. Steam-valve for locomotives or other engines .....	605,282	June 7	428	96	83	1433
Hintz, John G., Jr., assignor to Edward P. Allis Company, Milwaukee, Wis. Bolting-machine .....	597,412	Jan. 18	1647	383	82	353
Hintz, Reinhold H., Milwaukee, Wis. Mail-box .....	613,275	Nov. 1	93	21	85	634
Hinzelmann, Max, Munich, Germany. Adhesive compound and producing same .....	608,044	July 26	2823		84	602
Hipkins, Stephen, Jr., Martin's Ferry, Ohio. Jar .....	615,453	Dec. 6	444	104	85	1498
Hipp, Preston O., Warren, Ark. Automatic feed-water regulator for steam-boilers .....	609,544	Aug. 23	2562	600	84	1200
Hipwell, Daniel E., assignor of one-half to S. Carter, London, England. Buckle .....	606,627	June 28	2958	686	83	1974
Hipwell, Harry H. and T. S., Allegheny, Pa. Metallic coin-wrapper .....	608,521	Aug. 2	628	141	84	779
Hipwell, Thomas S. (See Hipwell, Harry H. and T. S.) .....						
Hipwood, George, Boston, Mass. Car-fender .....	596,592	Jan. 4	236	52, 53	82	47
Hipwood, George, Boston, Mass. Bicycle-support .....	610,536	Sept. 13	736	167 168	84	1596
Hirlinger, William L., Luzerne, Pa. Drill-clutch .....	613,369	Nov. 1	275	63	85	670
Hironimus, Fred W., assignor of one-half to R. A. Harness, Corydon, Ky. Sash-balance .....	598,478	Feb. 1	696	169	82	735
Hirsch, Albert, Berlin, Germany. Apparatus for welding, brazing, and soldering by electricity .....	606,342	June 28	2441	566	83	1874
Hirsch, Morris, New York, N. Y. Car-fender .....	612,340	Oct. 11	1326	320	85	266
Hirschbach, Gustave, New York, N. Y. Plug-tobacco carrier and cutter .....	604,756	May 31	2817	643	83	1230
Hirschwanger Holzschleiferei und Holzstoffwaaren Fabrik Schoeller & Company. (See Binder, Johann, assignor.) .....						
Hirsh, Benjamin M., North Adams, Mass. Table .....	606,142	June 21	2050	469 470	83	1777
Hirsh, Jacob, Chicago, Ill. Ulster .....	600,284	Mar. 8	1235	280	82	1475
Hirsh, Manuel, Chicago, Ill. Check-punch .....	597,413	Jan. 18	1650	384	82	354
Hirst, Samuel E., Pueblo, assignor of one-half to T. J. Lewis, Denver, Colo. Temple for spectacle-frames .....	610,875	Sept. 13	1322	303	84	1717
Hirst, William, Trenton, N. J. Air-brake .....	607,371	July 12	1374	293 294	84	282
Hirt, Louis J., Brookline, Mass. Apparatus for eliminating naphthalene from gas .....	598,707	Feb. 8	1106	265	82	829
Hirt, Louis J., Brookline, Mass. Coking-oven .....	607,437	July 19	1506	320 321	84	324
Hirt, Louis J., Brookline, Mass. Mechanism for automatically placing cables in cable-railway grips .....	608,858	Aug. 9	1266	295 296	84	919



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Hirt, Ludwig, assignor to Maschinenfabrik Grevenbroich, vormals Langen & Hundhausen, Grevenbroich, Germany. Closing device for discharge-openings of receptacles	612,627	Oct. 18	1840	436	85	377
Hirth, Carl A. (See Junghans and Hirth.)						
Hiscock, Charles O., Ridgeway, Mich. Filing-case	604,986	May 31	3187	734	83	1302
Hiser, Charles H., and E. N. Lupfer, assignors to Springfield Metallic Casket Company, Springfield, Ohio. Metallic casket	610,537	Sept. 13	738	168	84	1597
Hislop, George R., Paisley, Scotland. Dip-pipe valve	610,538	Sept. 13	740	169	84	1597
Hiss, Nelson, New York, N. Y. Safety appliance for elevators	612,545	Oct. 18	1670	397 398	85	345
Histand, Albert B., Doylestown, Pa. Vehicle spring-gear	613,370	Nov. 1	276	63	85	670
Hitch, William S., assignor of one-half to J. H. Wilson, Dover, Del. Horseshoe	602,046	Apr. 5	792	171	83	150
Hitchcock, Arthur G., Honolulu, Hawaii. Ball-bearing	609,674	Aug. 23	2816	657	84	1249
Hitchcock, Charles F., assignor of two-thirds to U. D. Tibbetts and P. J. Conroy, St. Louis, Mo. Water-filter	604,615	May 24	2558	584	83	1163
Hitchcock, Daniel A. (See Hill and Hitchcock.)						
Hitchcock, Gardner. (See Drackett, Simms, and Hitchcock.)						
Hitchcock Lamp Company. (See Baker, William R., assignor.)						
Hitchcock Lamp Company. (See Bragger, John W., assignor.)						
Hite, Charles E., assignor to Hite Manufacturing and Navigation Company, Philadelphia, Pa. Air-ship	607,240	July 12	1147	244 245	84	237
Hite, Daniel O., Sacramento, Cal. Machine for cutting weeds	615,553	Dec. 6	631	144	85	1535
Hite Manufacturing and Navigation Company. (See Hite, Charles E., assignor.)						
Hiteshew, Harvey B., and W. F. Spieth, assignors to Cleveland School Furniture Company, Cleveland, Ohio. Lecture-room seat	601,874	Apr. 5	491	101	83	91
Hiteshew, Harvey B., and W. F. Spieth, assignors to Cleveland School Furniture Company, Cleveland, Ohio. Adjustable school furniture	601,875	Apr. 5	493	101 102	83	92
Hitson, Thomas J., Hermitage, Mo. Suspension-bridge	616,536	Dec. 27	2470	572	85	1947
Hitt, George C., et al. (See White, James E., assignor.)						
Hitz, Henry B., Milwaukee, and C. A. M. von Syburg, South Milwaukee, Wis. Rotary engine	609,618	Aug. 23	2712	633	84	1227
Hix, James. (See Stevens and Hix.)						
Hoadley, Horace G. (See Williams, Hoadley, and Lewis.)						
Hoadley, Joseph H., assignor to Compressed Air Power Company, New York, N. Y. Air-compressor	598,149	Feb. 1	127	29	82	627
Hoadley, Sylvester, Gosport, Ind. Musical instrument	599,608	Feb. 22	2708	633	82	1174
Hoagland, John S. and W. W., Long Branch, N. J. Napkin ring and holder	598,870	Feb. 8	1356	327	82	877
Hoagland, William W. (See Hoagland, John S. and W. W.)						
Hoak, Orian A., Sterling, Ill. Bolt-cutter	616,105	Dec. 20	1631	382	85	1762
Hoar, Patrick J. (See Farrell and Hoar.)						
Hoard, Milo C., assignor of one-half to S. E. Todd, Jr., Toledo, Ohio. Hose-coupling	602,756	Apr. 19	2013	456	83	411
Hobart, John P., Cincinnati, Ohio. Bicycle-support	599,964	Mar. 1	533	122	82	1314
Hobbs, Clarence W. (See Morgan and Jones, assignors.)						
Hobbs, Clarence W., Worcester, Mass. Machine for scoring cardboard	604,530	May 24	2406	548	83	1132
Hobbs, Davis D., Cleveland, Ohio, assignor to Monarch Duplex Engine Company. Gas-engine	613,417	Nov. 1	374	86, 87	85	687
Hobbs, George W., assignor of one-half to A. J. Partridge, Los Angeles, Cal. Tack-driver	613,569	Nov. 1	631	146	85	736
Hobbs, Jefferson D., assignor of one-half to C. S. Erb, New York, N. Y. Bicycle-saddle	616,841	Dec. 27	3024	702	85	2086
Hoberecht, Albert, Ensanada, Mexico. Condenser	596,876	Jan. 4	734	172	82	143
Hoberg, John, Sr., Green Bay, Wis. Toilet-paper cutter	604,150	May 17	1693	381	83	978
Hobron, Charles B., Boerne, Tex. Ball-bearing axle-box	607,241	July 12	1149	245	84	237
Hobron, Charles B., Boerne, Tex., assignor of one-half to S. S. Eveland, Philadelphia, Pa. Antifriction-bearing	602,047	Apr. 5	793	172	83	150
Hobron, Charles B., Boerne, Tex., assignor of one-third to S. S. Eveland, Philadelphia, Pa. Antifriction-bearing	603,642	May 10	738	165	83	760
Hobson, Ben J., Cincinnati, Ohio. Drier	612,341	Oct. 11	1327	320	85	266
Hobson, Harmon. (See Hobson, Joseph and H.)						
Hobson, Joseph and H., Goodson, Mo. Artificial-stone composition	611,200	Sept. 20	1903		84	1842
Hobson, Louis D., and H. E. Blair, Cincinnati, Ohio. Evaporating apparatus	616,187	Dec. 20	1806	418	85	1796
Hochhausen, William, Brooklyn, N. Y. Electric-arc lamp	605,228	June 7	318	73, 74	83	1411
Hochspeier, William F., assignor to F. Menzenhauer, Jersey City, N. J., and O. Schmidt, New York, N. Y. Target	605,314	June 7	490	109	83	1445
Hochstrasser, Gottlieb, assignor, by mesne assignments, to A. Humann, Chicago, Ill. Match and cigarette box	596,970	Jan. 4	898	211	82	175
Hock, John, and J. E. Losier, Allegheny, Pa. Folding table	600,691	Mar. 15	1951	445	82	1629
Hock, Karl, Aschaffenburg, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Pharmaceutical compound and making same	607,172	July 12	1008		84	212
Hocker, John W., Philadelphia, assignor of one-half to H. K. Walker, Fort Washington, Pa. Brush-machine	607,797	July 19	2314	489 490 491 492	84	483
Hockerson, Nels, Jr., assignor of three-fourths to A. and G. E. Wilson, Stillwater, Minn. Knife	612,945	Oct. 25	2415	576	85	507
Hocquet, Maxime, assignor to himself and P. Stromsdorfer, Paris, France. Producing plastic composition from cork, &c	597,283	Jan. 11	1419		82	291
Hodder, Edward, assignor to W. Goodacre & Sons, Limited, London, England. Loom for weaving coir-yarn mats or other fabrics	612,519	Oct. 18	1623	387 388	85	336
Hoddick, Otto E., Buffalo, N. Y. Rag-picking or shoddy machinery	616,328	Dec. 20	2068	482	85	1848
Hoddle, Charles. (See Thorn and Hoddle.)						
Hodge, Alfred, New York, N. Y. Game apparatus	610,053	Aug. 30	3471	805	84	1390
Hodge, Henry F. (See Lo dell and Talcott, assignors.)						
Hodge, John, Topeka, Kans. Car-door bracket	607,851	July 26	2458	522	84	529
Hodge, William G. (See Jones and Hodge.)						
Hodgen, Joseph F., Scandia, Kans. Band-cutter and feeder	601,962	Apr. 5	663	140	83	125
Hodges, Alexander E., Tecumseh, Okla. Ter. Washing-machine	599,181	Feb. 15	1888	447	82	993
Hodges, Harry F., New York, N. Y. Conveyer	604,828	May 31	2927	669	83	1252
Hodges, James L. (See Evans, John, assignor.)						
Hodges, John D., assignor of five-sixths to J. Bellew, F. H. Repetto, and P. J. King, Chicago, Ill. Car-fender	614,654	Nov. 22	2555	582	85	1156
Hodges, Robert H., Kansas City, Mo. Cattle-guard	597,414	Jan. 18	1652	384	82	354
Hodgins, Frank E., and J. F. Young, deceased; A. V. Young, executrix, Toronto, Canada. Railway-ticket	611,736	Oct. 4	258	62	85	53
Hodgins, George S., Windsor, Canada. Means for testing fluid-pressure systems	602,009	Apr. 5	730	156	83	138
Hodgkin, Philip E. (See Hodgkin, Stanley H. and P. E.)						
Hodgkin, Stanley H., and P. E., London, England. Type-setting machine	602,327	Apr. 12	1279	283 284	83	258



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Hodgkins, Curtis H., Northeast Harbor, Me. Folding table	610,269	Sept. 6	228	51	84	1486
Hodgkinson, Edmund H., London, England. Clutch	613,766	Nov. 8	973	222	85	822
Hodgson, John G., Maywood, assignor to Norton Bros., Chicago, Ill. Automatic sheet-metal-rolling mill	608,287	Aug. 2	205	48, 49	84	695
Hodgson, Samuel, Medway, Mass. Attachment for traveling wheels	611,451	Sept. 27	2412	553	84	1956
Hoe, Robert, <i>et al.</i> (See Crowell, Luther C., assignor.)						
Hoe, Robert, <i>et al.</i> (See Moody, John H., assignor.)						
Hoe, Robert, <i>et al.</i> (See North, Thomas M., assignor.)						
Hoe, Robert, <i>et al.</i> (See Read, George F., assignor.)						
Hoe, Robert, <i>et al.</i> (See Sheldon, Edward P., assignor.)						
Hoe, Robert, <i>et al.</i> (See Spalckhaver, William, assignor.)						
Hoe, Robert, <i>et al.</i> (See Stone, Irving, assignor.)						
Hoefer, August G. (See Hoefer, Frederick W. and A. G.)						
Hoefer, Frederick W. and A. G., assignors to Stover Novelty Works, Freeport, Ill. Spring-coiling machine	598,094	Feb. 1	40	10, 11	82	611
Hoefer, Frederick W. and A. G., assignors to Stover Novelty Works, Freeport, Ill. Machine for forming interlocking eyes	607,372	July 12	1382	294, 295	84	284
Hoefle, Francis J., assignor to Cincinnati Coffin Company, Cincinnati, Ohio. Handle for caskets	610,054	Aug. 30	3471	805	84	1390
Hoelt, Herman W., La Crosse, Wis. Safety umbrella-rack	600,533	Mar. 15	1685	384	82	1580
Hoegge, William H. (See Webster and Hoegge.)						
Höegh, Emil von. (See Goerz and Höegh.)						
Hoehl, Frederick D., Pittsburg, Pa. Alarm-clock	606,143	June 21	2051	470	83	1777
Hoening, Alexander, Berlin, Germany. Insufflator	602,010	Apr. 5	732	156	83	139
Hoepfner, Carl, Giessen, Germany. Apparatus for electrolytically producing zinc	598,180	Feb. 1	189	44	82	638
Hoeschen, Henry, Omaha, Nebr. Motor	600,420	Mar. 8	1446	331	82	1515
Hoetzel, Ferdinand, Philadelphia, Pa. Journal-box for railway-cars	608,332	Aug. 2	300	66	84	715
Hoebet, Alfred T. (See Middaugh, Hoebet, and Anderson.) (Reissue.)						
Hoey, Ellen M., Lynn, Mass. Cycling-skirt	610,988	Sept. 20	1524	350	84	1770
Hoey, Michael J., Columbus, Ohio. Automatic dust-guard for train-pipe couplings	603,190	Apr. 26	2767	631	83	571
Hoff, Charles, assignor of one-half to A. H. Schumacher, Cincinnati, Ohio. Apparatus for filtering beer, wine, &c.	601,300	Mar. 29	3004	678	82	1872
Hoff, John A., Chicago, Ill. Autograph cash-register	608,374	Aug. 2	365	80	84	728
Hoff, John A., assignor to W. T. Blaine, Chicago, Ill. Autograph cash-register	615,020	Nov. 29	3249	746	85	1306
Hoff, John A., assignor to W. T. Blaine, Chicago, Ill. Autograph cash-register	615,021	Nov. 29	3251	747	85	1307
Hoff, John A., assignor to W. T. Blaine, Chicago, Ill. Autograph cash-register	615,022	Nov. 29	3253	747	85	1307
Hoff, John A., assignor to W. T. Blaine, Chicago, Ill. Advertising device	615,023	Nov. 29	3256	747	85	1308
Hoff, John A., assignor to W. T. Blaine, Chicago, Ill. Autograph cash-register	615,024	Nov. 29	3257	748	85	1308
Hoff, Margaret, Brooklyn, N. Y. Medicine-case for physicians	603,467	May 3	402	90	83	678
Hoff, Olaf, Minneapolis, Minn. Grain-bin	614,549	Nov. 22	2352	539	85	1120
Hoff, William H. (See Probst, Edward, assignor.)						
Hoffheins, Reuben, Chicago, Ill. Curtain-stretcher	603,690	May 10	816	180	83	776
Hoffman, Charles W., New York, N. Y. Brake for dumb-waiters	601,963	Apr. 5	664	140	83	125
Hoffman, Edmund, assignor to himself, C. E. E. Whiteley, R. P. Frist, Bridgeton, N. J., H. Whiteley, Philadelphia, Pa., and W. G. Whiteley, Wilmington, Del. Apparatus for finishing necks of glass vessels	611,631	Oct. 4	65	16	85	15
Hoffman, Edmund, and R. P. Frist, assignors to themselves and C. E. E. Whiteley, Bridgeton, N. J., H. Whiteley, Philadelphia, Pa., and W. G. Whiteley, Wilmington, Del. Cap-forming mechanism	611,632	Oct. 4	67	16	85	15
Hoffman, Edmund, and R. P. Frist, assignors to themselves, C. E. E. Whiteley, Bridgeton, N. J., H. Whiteley, Philadelphia, Pa., and W. G. Whiteley, Wilmington, Del. Bottle or similar receptacle	613,371	Nov. 1	277	63	85	671
Hoffman, George D., Chicago, Ill. Furnace	597,284	Jan. 11	1420	333	82	291
Hoffman, George D., Chicago, Ill. Furnace	599,965	Mar. 1	535	122	82	1314
Hoffman, Godfrey S., Minneapolis, Kans. Draft-equalizer	608,776	Aug. 9	1079	248	84	886
Hoffman, John M. (See Kempf, John, assignor.)						
Hoffman, John W., Cleveland, Ohio. Back-pedaling brake	611,963	Oct. 4	635	154, 155	85	124
Hoffman, Jules G., and W. B. Norton, assignors to American Cash Register Company, Detroit, Mich. Cash-register	608,551	Aug. 2	673	153, 154	84	789
Hoffman, Louis E., Cleveland, Ohio. Crank-shaft and bearing for bicycles	603,142	Apr. 26	2696	612	83	557
Hoffman, Louis E., Cleveland, Ohio. Back-pedaling brake	606,217	June 28	2203	506	83	1826
Hoffman, Oliver, and J. Curran, Wilmington, Del. Lubricator	599,839	Mar. 1	312	70	82	1271
Hoffman, Robert, Allegheny, Pa. Bicycle-brake	601,197	Mar. 22	2788	638	82	1802
Hoffman, William M., Detroit, Mich., assignor to S. A. Jones, Dillsborough, N. C. Machine for cleaning corundum	600,003	Mar. 1	592	136	82	1325
Hoffman, William M., assignor to J. M. Griffin, Detroit, Mich. Abrading-shoe for truing up car-wheels	605,056	May 31	3310	760	83	1326
Hoffmann, Adolph G., assignor of one-half to A. Schwarz, Berlin, Germany. Heating and evaporating liquids	608,775	Aug. 9	1077	248	84	886
Hoffmann, Bernhard, Paris, France, assignor to Société the International Telescriptor Syndicat, Limited, London, England. Telegraphic transmitting and receiving apparatus	608,333	Aug. 2	302	67	84	716
Hoffmann, Carl, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Red rhodamin dye and making same	613,926	Nov. 8	1241	-----	85	873
Hoffmann, Carl, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Green dye and making same	615,485	Dec. 6	501	-----	85	1508
Hoffmann, Ernest G., New York, N. Y. Clutch	614,951	Nov. 29	3128	717	85	1285
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Controller for electric motors	598,991	Feb. 15	1579	375	82	937
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric brake	606,167	June 21	2094	481	83	1785
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric buoy	607,745	July 19	2217	469	84	465
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Brake	607,852	July 26	2460	522	84	530
Hoffmann, George E., assignor of one-half to H. W. Beek, Chicago, Ill. Violin chin-rest	613,513	Nov. 1	542	123	85	718
Hoffmann-La Roche & Co., F. (See Schaerges and Schwarz, assignors.)						
Hoffmann, Oswald, Neugersdorf, Germany. Yarn-skein	610,401	Sept. 6	502	109, 110	84	1535
Hoffmeister, Reinhard, Vancouver, Canada. Brake and foot-rest for bicycles	600,534	Mar. 15	1686	385	82	1580
Hofmeier, Julius, Vienna, Austria-Hungary. Embossing-roller	615,703	Dec. 13	891	206	85	1601
Hofstatter, Adolph G., New York, N. Y. Spring-back for furniture	606,992	July 5	619	135	84	122
Hogaboom, William O., Everett, Mass. Punching-press	604,392	May 24	2145	482	83	1086
Hogan, Daniel, Palatka, assignor of one-half to T. Palmer and M. B. Macfarlane, Hillsborough county, Fla. Nut-lock	599,783	Mar. 1	188	47	82	1251



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Hogan, George L., Baltimore, Md. Acetylene-gas generator.....	611,483	Sept. 27	2473	570	84	1967
Hogan, James T., Jersey City, N. J., assignor to National Machine Company, of New York. Buttonhole-sewing machine.....	596,593	Jan. 4	240	53, 54	82	48
Hogan, James T., Jersey City, N. J., assignor to National Machine Company, Troy, N. Y. Cloth-clamp for sewing-machines.....	608,045	July 26	2823	601	84	602
Hogan, John D., St. Louis, Mo. Awning.....	603,691	May 10	820	181	83	777
Hogan, John J., assignor of one-fourth to T. W. Corbett, New Haven, Conn. Electric-current controller.....	606,012	June 21	1805	416	83	1731
Hogan, Peter W. (See Griffin and Hogan.)						
Hogan, Thomas J. (See Bole and Hogan.)						
Hogan, Thomas J., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Automatic fluid-pressure brake apparatus.....	604,861	May 31	2991	687	83	1264
Hogan, William, Washington, Cal. Car-dumping apparatus.....	615,554	Dec. 6	633	144	85	1535
Hoge, Flavieous J., Birchwood, Tenn. Churn.....	603,881	May 3	232	52, 53	83	645
Hoge, Ralph W. (See Hollyman and Hoge.)						
Högfeldt, Richard. (See Keunen and Högfeldt.)						
Hoggson & Pettis Manufacturing Company. (See Howarth, James A., assignor.)						
Hoglen, Frank M., La Grange, Ill. Binder.....	614,170	Nov. 15	1652	380	85	975
Hohenstein, Wilhelm, Berlin, Germany. Ornamental or fancy paper.....	612,241	Oct. 11	1148	276	85	234
Hohmann, Karl, Neukirchen, Germany. Speculum.....	605,715	June 14	1203	277	83	1602
Hohnsbehn, Claus, Waverly, Iowa. Centrifugal cream-separator.....	596,508	Jan. 4	79	18	82	17
Hoit, Jacob R., assignor to Hoit Specialty Company, Des Moines, Iowa. Duplex clothes-pin.....	608,986	Aug. 9	1506	356	84	965
Hoit Specialty Company. (See Hoit, Jacob R., assignor.)						
Hoke, Jacob F., Jr., Sullivan, Ind. Brush.....	596,877	Jan. 4	735	173	82	144
Hoke, John I., South Bend, Ind. Harrow-tooth clip.....	600,076	Mar. 1	819	189	82	1374
Hoke, John I., South Bend, Ind. Harrow.....	603,446	May 3	350	79	83	667
Hoke, Quinton J., T. W. Campbell, and W. M. Bigger, Newport, S. C. Subsoil-plow.....	612,901	Oct. 25	2350	560	85	492
Holbeck, Louis. (See Hüssener, Holbeck, and Kirschfink.)						
Holborn, Henry. (See Smith and Holborn.)						
Holbrook, Albert E., and J. F. Harding, Abertillery, England. Air-door for coal-mines.....	597,147	Jan. 11	1206	282	82	250
Holbrook, Sanford S., Cincinnati, Ohio. Wheel-scraper.....	613,994	Nov. 8	1351	308	85	896
Holbrook, Zepaniah S. (See Sherwood, Alexander B., assignor.)						
Holcomb, Charles M., New York, N. Y., assignor to A. Birnie, Springfield, Mass. Paper-box machine.....	611,252	Sept. 27	2012	464 465	84	1882
Holcomb, Charles M., New York, N. Y., assignor to A. Birnie, Springfield, Mass. Plunger for paper-box machines.....	611,431	Sept. 27	2381	547	84	1949
Holcomb, Clifford A., assignor of one-half to P. H. Crahen, Beloit, Wis. Rotary steam-engine.....	609,808	Aug. 30	3037	711	84	1304
Holcomb, Henry S., Bath, N. Y. Paste-cup for cigar-makers.....	597,184	Jan. 11	1266	297	82	263
Holcombe, William H., Marcelena, Tex. Umbrella-holder.....	600,421	Mar. 8	1449	331	82	1516
Holden, Edward P. (See Brown and Holden.)						
Holden, Edward P., Chicago, Ill. Can-soldering machine.....	598,565	Feb. 8	849	203	82	782
Holden, Edward P., Chicago, Ill. Can-heading machine.....	598,566	Feb. 8	851	203 204	82	782
Holden, Edward P., Chicago, Ill. Automatic feeding mechanism.....	611,364	Sept. 27	2242	518	84	1925
Holden, Edward P., and C. M. Brown, Chicago, Ill. Can-body machine.....	598,567	Feb. 8	854	204 205 206	82	783
Holden, Edward P., and J. L. Board, Chicago, Ill. Can-testing machine.....	609,232	Aug. 16	1998	474 475	84	1073
Holden, Ernest M., Orlando, Fla., assignor to C. M. Campbell, Washington, D. C. Tube and flue cleaner.....	599,840	Mar. 1	313	70	82	1271
Holden, Henry P. (See Coon, Gustavus W., assignor.)						
Holden, Isaac, Bridgeport, Conn. Buttonhole-sewing machine.....	614,106	Nov. 15	1540	353 354	85	954
Holden, Jonas H. (See Warren and Holden.)						
Holden, Warren, Providence, R. I. Cuff-button.....	613,039	Oct. 25	2562	608	85	536
Holder, William, et al. (See Brown, Charles M., assignor.)						
Holdsworth, William. (See Smith and Holdsworth.)						
Holford, Lee, assignor of two-thirds to P. Martin, Nebo, Ill. Wrench.....	598,783	Feb. 8	1218	296	82	851
Holgate, William A., Duluth, Minn. Combined case and cigar-tip cutter.....	599,707	Mar. 1	57	13	82	1227
Holinger, Emil F., McKeesport, Pa., assignor to National Tube Works Company, Boston, Mass. Tube-forming apparatus.....	603,787	May 10	981	219 220	83	807
Holl, Gustav J. (See Richardson and Holl.)						
Holland, Albert E. (See Richardson and Samuel T., assignor.)						
Holland, Albert H., Buffalo, N. Y. Spring-seat for vehicles.....	606,413	June 28	2574	596	83	1898
Holland, Alexander F., Berkeley, Cal. Vaginal dilator.....	605,547	June 14	880	206	83	1543
Holland, Charles L. (See Grant, John F., assignor.)						
Holland, Elias C. (See Muther and Holland.)						
Holland, Frank, assignor to J. Cavanagh, Brooklyn, N. Y. Supplying polishing compounds to polishing or cutting tools.....	605,283	June 7	431	97	83	1434
Holland, Henry W., and T. Woodward, London, England; said Woodward assignor to said Holland. Double-barrel single-trigger firearm.....	608,046	July 26	2824	601	84	602
Holland, James T., near Memphis, Tenn. Bottle.....	606,665	July 5	54	12	84	13
Holland, Joseph J., Edge, assignor of one-half to H. Mitchell, Wheelock, Tex. Cotton chopper and cultivator.....	605,426	June 7	703	157	83	1488
Holland, Luther W., Fulton, Mo. Heating-drum.....	609,935	Aug. 30	3253	760	84	1347
Holland, Richard J. (See Harris and Holland.)						
Holland, Richard J., New York, N. Y. Electric heater.....	600,285	Mar. 8	1236	281	82	1475
Holland, Thomas O., Philadelphia, Pa. Razor-strop.....	603,766	May 10	944	211	83	800
Holland, Thomas O., Philadelphia, Pa. Razor-strop.....	603,954	May 10	1287	293	83	866
Holland, Thomas O., Philadelphia, Pa. Tooth-powder receptacle.....	611,410	Sept. 27	2336	538	84	1943
Hollands Manufacturing Company. (See Hough, Robert B., assignor.)						
Holler, John W., assignor of one-half to C. D. Grandstaff, Van Buren, Ind. Fence.....	603,274	May 3	53	14	83	611
Holley, Julian R., and E. C. Fowler, assignors to Bristol Brass and Clock Company, Bristol, Conn. Lamp-burner.....	613,276	Nov. 1	95	22	85	634
Hollick, Thomas D., assignor of one-third to J. C. Howell, London, England. Gearing for transmission of power.....	609,809	Aug. 30	3038	711	84	1305
Holliday, Thomas, Huddersfield, England. Apparatus for producing acetylene gas.....	610,055	Aug. 30	3472	805	84	1391
Hollinger, Job. (See Farley, John P., assignor.)						
Hollings, John C. (See Murdock, William N., assignor.)						
Hollings, John C. (See Murdock and Hollings.)						
Hollingsworth, Alfred B., and E. Robards, Stilesville, Ind. Power-machine for pumps, &c.....	559,129	Feb. 15	1803	429	82	979
Hollingsworth, Daniel H., New York, N. Y. Pipe-wrench.....	609,545	Aug. 23	2563	600	84	1200



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Hollingsworth, Merrill W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Cataphoric-electrode support	601,396	Mar. 29	3166	715	82	1902
Hollingsworth, Merrill W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	602,581	Apr. 19	1707	388	83	353
Hollington, John A., <i>et al.</i> (See Stoner, Clinton S., assignor.)						
Hollingworth, Leonard C., Providence, R. I. Salvage-guide for cloth-shearing machines	598,264	Feb. 1	341	79	82	666
Hollinshead, James M., Newcastle-under-Lyme, England. Appliance for kindling or reviving fires in domestic fire-grates	611,964	Oct. 4	637	155	85	124
Hollister, John C., <i>et al.</i> (See Greenleaf, Harry K., assignor.)						
Holliwell, Charles. (See Lewis, Pearce, and Holliwell.)						
Holloway, Charles T., Baltimore, Md. Hose-wagon	596,776	Jan. 4	571	131	82	110
Holloway, James C., assignor of four-fifths to J. F. Cunningham and C. E. Grosjean, San Francisco, Cal. Grain-pearling machine	615,177	Nov. 29	3541	814	85	1362
Holloway, William H., Brazil, Ind. Toy gun	603,382	May 3	234	53	83	646
Holloway, William H., Brazil, Ind. Bicycle-brake	614,952	Nov. 29	3129	717	85	1285
Hollstein, Carl, New York, N. Y., assignor to Hollstein Novelty Company. Game apparatus	609,390	Aug. 16	2281	539	84	1128
Hollstein Novelty Company. (See Hollstein, Carl, assignor.)						
Holly, Brenton E., Fulton, N. Y. Thill-support	615,066	Nov. 29	3351	768	85	1325
Holly, Gustav, Narka, Kans. Elevator	615,619	Dec. 6	740	171 172	85	1558
Hollyman, Leslie K., and R. W. Hoge, Kansas City, Mo. Sharpening device	600,947	Mar. 22	2372	540	82	1723
Holman, Edward S., <i>et al.</i> (See Schmidt, Julius H., assignor.)						
Holman, James A., Salida, Colo. Non-refillable bottle	599,077	Feb. 15	1716	407	82	964
Holman, Lena G., <i>et al.</i> , executors. (See Holman, William A.)						
Holman Locomotive Speeding Truck Company. (See Holman, William J., assignor.)						
Holman, William A., deceased, Philadelphia, Pa.; L. G. Holman and W. H. Isbister, executors. Easel-support for albums, &c	599,902	Mar. 1	436	96	82	1296
Holman, William J., Minneapolis, Minn., assignor to Holman Locomotive Speeding Truck Company, of Iowa. Locomotive speeding-truck	597,557	Jan. 18	1895	439 440 441	82	403
Holmberg, Per, assignor to Ljusne Woxna Aktiebolag, Ljusne, Sweden. Adjusting arrangement for spring-power hammers, &c	610,745	Sept. 13	1076	247	84	1666
Holmen, John P. (See Ferguson and Holmen.)						
Holmes, Abram G. (See Rodgers, John, assignor.)						
Holmes, Addison L., and J. H. Campbell, Alma, Colo. Nut-lock	610,679	Sept. 13	968	224	84	1644
Holmes, Britain. (See Holmes, Edward and B.)						
Holmes, Britain, Buffalo, N. Y. Motor-vehicle	601,440	Mar. 29	3242	731	82	1916
Holmes, Buckley H., Duluth, Minn. Necktie-fastener	604,048	May 17	1499	337	83	942
Holmes, Charles M., Providence, R. I. Cigar or cigarette package	600,615	Mar. 15	1814	416	82	1603
Holmes, Edward and B., Buffalo, N. Y. Machine for flaring and bending metal hoops	609,807	Aug. 30	3034	710	84	1304
Holmes, Ernest, assignor to Siemens Brothers & Co., Limited, London, England. Portable electric drill	606,549	June 28	2820	649	83	1948
Holmes, Francis G. D., Phillipsburg, N. J. Gearing	615,704	Dec. 13	892	206	85	1601
Holmes, Frank J., Cleveland, Ohio. Signaling apparatus for telephone systems	596,509	Jan. 4	80	18, 19	82	18
Holmes, Henry, assignor of one-half to W. Evans, Philadelphia, Pa. Liquid composition of matter for treating hides or skins	615,705	Dec. 13	893		85	1601
Holmes, Henry D. (See Dyer and Holmes.)						
Holmes, Homer E., Burr Oak, Kans. Duplex-writing apparatus	603,275	May 3	55	14	83	611
Holmes, Horace A. (See Holmes, Isaac F. and H. A.)						
Holmes, Isaac F. and H. A., Manton, Mich. Churn-dasher	600,151	Mar. 8	1016	227	82	1433
Holmes, John D., and W. L. Heath, St. Louis, Mo. Automatic resetting fusible cut-out	604,616	May 24	2559	584	83	1163
Holmes, John E., Albany, N. Y. Trousers-creaser	602,078	Apr. 12	847	184	83	172
Holmes, Joseph R., Elgin, Ill. Cup-lubricator	602,160	Apr. 12	1002	220	83	202
Holmes, Lawrence. (See Holmes, Thorvald and L.)						
Holmes, Lyman S., Schoharie, N. Y. Rotary motor	607,373	July 12	1387	295 296	84	285
Holmes, Obadiah, Blue Springs, Mo. Latch and lock combined	606,550	June 28	2821	649	83	1948
Holmes, Philip H., Gardiner, Me. Bill-file	608,122	July 26	2939	630	84	1163
Holmes, Philip H., Gardiner, Me. Sash-lock	613,570	Nov. 1	634	147	85	736
Holmes, Robert, assignor to Robert Holmes & Bros., Incorporated, Danville, Ill. Valve	597,415	Jan. 18	1634	384	82	354
Holmes, Samuel B., and J. W. Milam, Frankfort, Ky. Stamp-canceler and postmarker	597,981	Jan. 25	2633	615	82	561
Holmes, Thomas H., Wilkes-Barré, Pa. Rod-packing	602,328	Apr. 12	1281	284	83	258
Holmes, Thorvald, Los Angeles, Cal., and L. Holmes, Chicago, Ill. Egg-boiler	607,930	July 26	2605	552	84	557
Holmes, Watson M., Hoosick Falls, N. Y. Grain-binding harvester	596,594	Jan. 4	245	54	82	49
Holmgren, Eugene A. (See Holmgren, Julius H. and E. A.)						
Holmgren, Julius H., San Antonio, Tex. Baling-press	604,324	May 17	2019	452	83	1042
Holmgren, Julius H. and E. A., San Antonio, Tex. Means for transmitting motion	611,786	Oct. 4	336	80, 81	85	68
Holmgren, Carl J., Minneapolis, Minn. Buttoner	602,848	Apr. 26	2189	496	83	460
Holmgren, Swan, St. Paul, Minn. Heating-stove	615,987	Dec. 13	1400	328	85	1699
Holmroyd, John. (See Wiseman and Holmroyd.)						
Holstein, Josef. (See Holstein, Selig, assignor.)						
Holstein, Selig, assignor of one-half to J. Holstein, Paterson, N. J. Heel-protector	596,878	Jan. 4	736	173	82	144
Holt, Albert A., Fitchburg, Mass. Vehicle running-gear	606,414	June 28	2575	596	83	1898
Holt, Albert A., Fitchburg, Mass. Vehicle running-gear	608,859	Aug. 9	1269	296	84	920
Holt, Frank E., Lynn, Mass. Apparatus for counting ballots	602,011	Apr. 5	733	157	83	139
Holt, James, Hutchinson, Kans. Rotary engine	614,107	Nov. 15	1542	354	85	954
Holt, Peder P. (See Johnson and Holt.)						
Holt, William, Chicago, Ill. Acetylene-gas generator	612,242	Oct. 11	1148	276	85	234
Holtmann, Charles F., and C. Bergmann, Pittsburg, Pa. Electric railway	603,060	Apr. 26	2537	576 577	83	526
Holton, Thomas J., Philadelphia, Pa. Circular-knitting machine	607,853	July 26	2461	522 523	84	530
Holton, Winfred B., assignor to Keyless Lock Company, Indianapolis, Ind. Keyless lock	597,080	Jan. 11	1099	260	82	231
Holton, Winfred B., assignor to Keyless Lock Company, Indianapolis, Ind. Keyless lock. (Reissue)	11,679	July 19	2369	502	84	495
Holtz, Max L., assignor to L. Holtz & Sons, Rochester, N. Y. Pocket for garments	608,375	Aug. 2	367	80	84	728
Holtz & Sons, Louis. (See Holtz, Max L., assignor.)						
Holzhausen, Friedrich von, assignor to W. L. Boalt, Graz, Austria-Hungary. Game apparatus	609,347	Aug. 16	2205	522	84	1114
Holznagel, Herman. (See Eagon, Frederick, assignor.)						
Holzworth, Edward C., Springfield, Ill. Railway	613,679	Nov. 8	797	183 184	85	789
Homan, Benjamin H. (See Hagen, Ferdinand J., assignor.)						
Homan, Ernest, London, England. Construction of walls, partitions, ceilings, &c	616,329	Dec. 20	2070	482 483	85	1849



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Homan, George E., Williamsport, Pa. Invalid-bedstead.....	601,001	Mar. 22	2468	562	82	1740
Homan, William C., Meriden, Conn. Registering-ring.....	605,822	June 14	1403	322	83	1638
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Lamp-bracket.....	600,535	Mar. 15	1688	385	82	1580
Homan, William C., Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Wick-raiser.....	614,471	Nov. 22	2239	513	85	1100
Homan, William C., Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Pilot-burner.....	615,706	Dec. 13	894	207	85	1601
Homestead Valve Manufacturing Company. (See Heston, William, assignor.)						
Homewood, Arthur. (See Hunter, Homewood, and Mahon.)						
Homesley, James M., and F. Sommer, Neuss, Germany. Stringed musical instrument.....	613,995	Nov. 8	1352	308	85	896
Homire, Leverett W. (See Christman, Brennan, and Homire.)						
Hommel, Helen, New York, N. Y. Means for connecting gas-supply pipes with burners of gas-stoves.....	600,872	Mar. 22	2248	512	82	1700
Hommel, Martin, Geislingen, Germany. Coin-freed machine.....	612,729	Oct. 18	2018	479	85	410
Hommell, Philemon E., Jersey City, N. J., assignor to himself, and E. T. Jones, New York, N. Y. Means for preserving corpses.....	614,108	Nov. 15	1545	354	85	955
Honegger, Gustaf. (See Berger, Franz, assignor.)						
Honegger, Otto, Fairmont, Minn. Gate.....	597,285	Jan. 11	1421	333	82	292
Honigmann, Friedrich, Aix-la-Chapelle, Germany. Transport or conveyance of materials.....	616,537	Dec. 27	2471	572	85	1947
Hönings, Wilhelm, and F. Sommer, Neuss, Germany. Stringed musical instrument.....	610,905	Sept. 20	1373	314	84	1742
Honiss, William H., Hartford, Conn. Cartridge-pocket.....	606,058	June 21	1892	436	83	1747
Honstain, George T. (See Dawson, James W., assignor.)						
Hood, Arthur F., Hopkinton, Mass., assignor to Fenton Metallic Manufacturing Company, Jamestown, N. Y. Bicycle.....	607,438	July 19	1507	321	84	324
Hood, Cyrus S., Corning, N. Y. Damper-controller and automatic indicator.....	602,450	Apr. 19	1491	340	83	313
Hood, John D., and S. J. Bailey, Columbia, Pa. Slat-fastener for blinds.....	600,330	Mar. 8	1306	299	82	1488
Hood, Thomas. (See Manire and Hood.)						
Hood, William B., Waco, Tex. Cloth measuring and cutting device.....	601,964	Arr. 5	665	141	83	126
Hoofnagle, William T., Baltimore, Md. Tack-driving implement.....	612,040	Oct. 11	799	197	85	167
Hook, Enos, New York, N. Y. Steam-boiler.....	599,609	Feb. 22	2710	634	82	1174
Hooker, Charles C., Richmond, Ky. Device for administering medicines.....	604,393	May 24	2147	482	83	1086
Hooker, Harry. (See Jaquet, Jules, assignor.)						
Hooker, Lucy, Sydney, New South Wales. Incandescent gas-light tassel.....	605,960	June 21	1709	392	83	1714
Hooker, William C., Abingdon, Ill. Animal-trap.....	615,851	Dec. 13	1144	267	85	1649
Hooker, William H., Arlington, N. J. Match-safe.....	608,603	Aug. 9	779	179	84	829
Hooley, Edwin S., et al. (See Sterne, Alfred J., assignor.)						
Hoolihan, John H., Dayton, Ohio. Rotating weigher and sacker.....	614,719	Nov. 22	2679	610	85	1179
Hoon, John M., assignor to Fort Dearborn Iron Company, Chicago, Ill. Metallic railway-tie.....	614,614	Nov. 22	2485	567	85	1142
Hooper, Clarence E. (See Hagerty, Thomas F., assignor.)						
Hooper, Clarence E., Baltimore, Md. Metallic roofing.....	615,178	Nov. 29	3543	815	85	1363
Hooper, George J., Jr. (See Evans, Richard, assignor.)						
Hooper, Louis M. (See Hammann and Hooper.)						
Hooper, William. (See Mitchell, Edward D., assignor.)						
Hoosier Drill Company. (See Jones, Sylvester H., assignor.)						
Hoosier Drill Company. (See Jones and Carr, assignors.)						
Hoover, David W., assignor of one-half to E. Crowell, Lyons, Nebr. Wind-motor.....	598,479	Feb. 1	697	170	82	735
Hoover, Edwin G., Pottsville, Pa. Thill-coupling.....	610,185	Sept. 6	64	13	84	1452
Hoover, George W., Belle Plain, Iowa. Step-ladder.....	610,487	Sept. 6	645	144	84	1562
Hoover, James H., Phoenix, Pa. Lock-rod for wagon-brakes.....	607,687	July 19	2125	445	84	448
Hoover, James M., Homestead, Pa. Column-shoe.....	611,452	Sept. 27	2415	554	84	1957
Hoover, Joseph H., Waterloo, Iowa. Breast-pump.....	603,564	May 3	539	131	83	715
Hoover, Walter L., Aurora, Ill. Valve.....	606,867	July 5	494	93	84	86
Hope, Amabel G. E. (See André, Alban, assignor.)						
Hope, Charles H., Providence, R. I. Combination music stand, case, and folio.....	607,374	July 12	1390	296	84	286
Hope Electric Appliance Company. (See Ely and Bernardini, assignors.)						
Hope, Herbert J., et al. (See Benoit, Joseph F., assignor.)						
Hope, James R., Philadelphia, assignor of two-thirds to T. McConnell, Chester, and W. Galey, Overbrook, Pa. Machine for mercerizing.....	616,709	Dec. 27	2800	649	85	2009
Hope-Jones, Frank, and G. B. Howell, London, England. Electric clock.....	610,539	Sept. 13	741	169	84	1597
Hope Street Factory. (See Laird, John, assignor.)						
Hopewell, Frank B., Boston, Mass. Needle-holder for sewing-machines.....	599,561	Feb. 22	2615	613	82	1157
Hopfer, Martin H., Minden, Nebr. Dental engine.....	612,902	Oct. 25	2351	560	85	493
Hopke, August F., et al. (See Coffee, William M., assignor.)						
Hopkins, Aaron, Lake City, Iowa. Nut-wrench.....	596,777	Jan. 4	572	131	82	110
Hopkins, Edward L., Columbus, Ohio. Mining-machine.....	597,358	Jan. 11	1548	362	82	318
Hopkins, Frank T., and H. A., Washington, D. C. Self-adjustable and reversible tile.....	604,325	May 17	2022	452	83	1042
Hopkins, George C., and H. M. Sines, Gallop, Mont. Sled-brake.....	608,165	July 26	3013	648	84	639
Hopkins, Harry A. (See Hopkins, Frank T. and H. A.)						
Hopkins, J. H. (See Gross, Elmer S., assignor.)						
Hopkins, James S., et al. (See Gates, Caleb C., assignor.)						
Hopkins, Nevil M., Washington, D. C. Apparatus for preventing bursting of water-pipes by freezing.....	616,188	Dec. 20	1809	418	85	1796
Hopkins, Robert G., Somerville, Mass. Type-writer-ribbon holder.....	599,504	Feb. 22	2516	592	82	1137
Hopkins, William, Dubuque, Iowa. Steam-boiler and furnace therefor.....	605,427	June 7	705	157	83	1488
Hopkins, William B., Philadelphia, Pa. Elastic-tread horseshoe.....	603,468	May 3	403	90	83	679
Hopkins, William B., Birmingham, Ala. Type-writing machine.....	613,201	Oct. 25	2820	667	85	589
Hopkins, William F., Caruthersville, Mo. Carriage-step.....	605,428	June 7	707	157	83	1489
Hopkins, William H., and J. S. Evans, Detroit, Ala. Car-coupling.....	611,124	Sept. 20	1773	406	84	1818
Hopkinson & Co., J. (See Hopkinson, Joseph, assignor.)						
Hopkinson, Joseph, assignor to J. Hopkinson & Co., Limited, Huddersfield, England. Stop-valve.....	611,484	Sept. 27	2475	571	84	1968
Hopkinson, William, and R. Tyack, Accrington, England, assignors to Howard & Bulough American Machine Company, Limited, of England. Doffer-driving mechanism for carding-engines.....	605,057	May 31	3311	760	83	1326
Hopkirk, James, Oakland, Cal. Single-track railway and car.....	602,601	Apr. 19	1743	397	83	359
Hopley, Frank D., New York, N. Y. Puzzle.....	604,248	May 17	1872	420	83	1013
Hopler, Frank H., assignor to L. Barnes, Philadelphia, Pa. Wire fence.....	598,226	Feb. 1	275	61	82	655
Hopper, Edward C., Covington, Ky., and C. F. McLean, Cincinnati, Ohio. Ticket rack and register.....	605,165	June 7	192	49	83	1387
Hopper, Thomas B., Yountville, assignor of one-half to N. W. Collins and H. L. Gunn, Napa, Cal. Dumping-wagon.....	604,697	May 24	2708	619	83	1191



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Hoppert, John P., Baltimore, Md. Portable heater	613,514	Nov. 1	544	123	85	719
Hoppesch, John P. (See Hoppesch, Peter and J. P.)						
Hoppesch, Peter and J. P., Chicago, Ill. Horseshoe	613,883	Nov. 8	1180	269	85	862
Hopping, Francis A., <i>et al.</i> (See Crane and Esch, assignors.)						
Hopton, Alfred, London, England. Means for fixing rubber tires on wheels	604,862	May 31	2995	688	83	1264
Hopwood, John H., assignor of one-half to Rose, Downs & Thompson, Limited, Hull, England. Water-tube boiler	603,565	May 3	590	131	83	715
Horack, Charles L., Brooklyn, N. Y. Method of and apparatus for printing yarns	603,992	May 10	1346	308	83	878
Hörbiger, Hanns, assignor of one-half to L. Lang, Buda-Pesth, Austria-Hungary. Valve	604,326	May 17	2023	453	83	1042
Horder, Edward Y., Chicago, Ill. Newspaper-holder, &c	616,330	Dec. 20	2071	483	85	1849
Horgan, Charles D., Omaha, Nebr. Car-coupling	598,373	Feb. 1	520	126	82	700
Horgan, Stephen H., Hoboken, N. J., assignor of one-half to Tribune Association, New York, N. Y. Composite printing-plate and making same	604,472	May 24	2306	524	83	1115
Hornby, John, New York, N. Y. Button-making machine	611,811	Oct. 4	377	91, 92	85	76
Horn, Edward C., and F. Clafin, New York, N. Y. Water-heater	613,372	Nov. 1	278	64	85	671
Horn, George A., Newark, N. Y. Spraying device	604,151	May 17	1694	381	83	979
Horn, John R., Camden, Ark. Nut-lock	610,446	Sept. 6	570	126	84	1548
Horn, John T., Ararat, Ala. Cultivator	600,422	Mar. 8	1451	331	82	1516
Horn, Joseph, Philadelphia, Pa. Bicycle	600,643	Mar. 15	1854	424	82	1612
Horn, Peter. (See Lord, John D., assignor.)						
Horn, Schooler C., Bladensburg, Ohio. Fence-post	608,288	Aug. 2	208	49	84	606
Hornby, Frederick. (See Rolfe, Spencer, assignor.)						
Horner, Edward B. (See Mathews and Horner.)						
Horner, James, Natrona, Pa. Firearm attachment for bicycles, &c	615,179	Nov. 29	3544	815	85	1363
Horner, Oscar, and W. H. Wise, Dubois, Pa. Nut-lock	611,201	Sept. 20	1903	439	84	1842
Hornig, Friedrich. (See Eichelbaum, Georg, assignor.)						
Horning, Martin L., Albion, Mich. Hat-bag	611,633	Oct. 4	69	17	85	16
Hornish, Harry C., Indianapolis, Ind. Vapor-burner	601,752	Apr. 5	250	49	83	48
Horrall, William A., assignor of two-thirds to J. C. Palmer and J. C. Billheimer, Washington, Ind. Car-coupling	614,267	Nov. 15	1851	428	85	1012
Horrocks Desk Company. (See Horrocks, William, assignor.)						
Horrocks, William, assignor to Horrocks Desk Company, Herkimer, N. Y. File-holding drawer for desks	613,631	Nov. 1	730	170	85	756
Horry, William S., Sault Ste. Marie, Mich. Electric furnace	597,880	Jan. 25	2455	573	82	527
Horsfall Furnace Syndicate. (See Watson, George, assignor.)						
Horsfield, John, Chicago, Ill. Pneumatic door-check	610,447	Sept. 6	571	126	84	1548
Horsfield, John, Chicago, Ill. Door-check	615,707	Dec. 13	895	207	85	1601
Horsley, James, Cooperstown, Pa. High and low pressure ejector	600,077	Mar. 1	820	189	82	1374
Horsman, Edward I. (See Doyle, John, assignor.)						
Horspool, Francis L., assignor of one-half to G. J. Kelly, Ogden, Utah. Door for steam-boiler furnaces	605,576	June 14	937	219	83	1554
Horswill, John, Jr., Chester, assignor to J. H. Iredale, Liverpool, England. Tool for removing casings of pneumatic tires	597,286	Jan. 11	1422	334	82	292
Horst, Henry W. E., Rock Island, Ill. Motor	606,926	July 5	515	113	84	102
Horton, Benjamin F., Buffalo, N. Y. Wagon-axle	612,628	Oct. 18	1841	436	85	377
Horton, Charles M., Superior, Wis. Metal box-beam, box-girder, and box-post	608,861	Aug. 9	1272	297	84	920
Horton, Charles M., Superior, Wis. Combination structural metal beam, girder, and post	611,202	Sept. 20	1905	439	84	1842
Horton, Cornelius J., White Plains, N. Y. Hoof-pad	606,343	June 28	2443	566	83	1874
Horton, Edward E., Toronto, Canada. Type-writing machine	605,877	June 21	1534	353, 354	83	1681
Horton, Edwin H., Elkton, Mich. Apparatus for ascertaining length and bevel of rafters	609,391	Aug. 16	2281	540	84	1129
Horton, Henry W., Wilkesborough, N. C. Truck	605,058	May 31	3312	760	83	1326
Horton, James A., New Castle, Pa. Base for stoves	600,247	Mar. 8	1169	265, 266	82	1462
Horton, James A., Reading, assignor to Wire Grip Fastening Company, Boston, Mass. Machine for driving slugs	601,255	Mar. 29	2903	661, 662	82	1851
Horton, Peter D., Oakland, assignor to E. L. Sullivan, W. M. Madden, and C. M. Wilson, San Francisco, Cal. Bubble-blower	608,860	Aug. 9	1271	297	84	920
Hosfeld, Alfred, Philadelphia, Pa. Mucilage or blacking bottle	611,485	Sept. 27	2476	571	84	1968
Hosford, Leonard D., Brooklyn, N. Y. Trap	598,992	Feb. 15	1581	375	82	937
Hosford, William J., assignor of one-fourth to L. T. Tuttle, Manti, Utah. Bicycle-support	596,595	Jan. 4	246	54	82	49
Hosier, Isaac, Philmont, N. Y. Shingling-bracket	606,144	June 21	2055	471	83	1778
Hosier, Isaac, Philmont, N. Y. Nut-lock	606,145	June 21	2056	471	83	1778
Hoskins, Cicero, Pearl, Ill. Folding coop for poultry, &c	611,753	Oct. 4	280	67	85	57
Hoskins & Son. (See Hoskins, William P., assignor.)						
Hoskins, Thomas D., New York, N. Y., assignor, by mesne assignments, to S. E. Warner. Street-car motor	615,274	Dec. 6	98	26, 27	85	1432
Hoskins, William, La Grange, Ill. Assay-furnace	596,707	Jan. 4	450	102	82	88
Hoskins, William P., assignor to Hoskins & Son, Limited, Birmingham, England. Ship's berth	601,143	Mar. 22	2688	616, 617, 618	82	1784
Hostelet, Georges. (See Hanotier and Hostelet.)						
Hostetter, Amos B., Lancaster, Pa. Grating-machine	608,604	Aug. 9	780	179	84	829
Hostetter, Christian K., Mount Joy, Pa. Cutter	615,988	Dec. 13	1401	328	85	1699
Hot Appliances Company. (See Spurr, Charles W., Jr., assignor.)						
Hotaling, William M., assignor of one-half to J. Hasbrouck, Port Ewen, N. Y. Lock-hinge	606,415	June 28	2577	596	83	1899
Hotchkiss, Charles S., Port Huron, Mich. Advertising-board	614,953	Nov. 29	3130	718	85	1285
Hotchkiss, Edward S., Bridgeport, Conn. Animal-trap	615,218	Nov. 29	3654	838	85	1384
Hotchkiss, Edward S., Bridgeport, Conn. Animal-trap	615,219	Nov. 29	3656	838	85	1385
Hotchkiss, Frederick G., New York, N. Y. Adjustable form for paper-box machines	616,236	Dec. 20	1911	442	85	1817
Hotchkiss, Miles J. (See Appleby, Charles O., assignor.)						
Hotchkiss Ordnance Company. (See Benét and Mercié, assignors.)						
Hotchkiss, William E., Courtland, Ala., assignor to Stow Manufacturing Company, Birmingham, N. Y. Support for drilling-machines	612,946	Oct. 25	2417	576	85	507
Hotchkiss, William E., Courtland, Ala., assignor to Stow Manufacturing Company, Birmingham, N. Y. Automatic feeding mechanism for drilling-machines	614,866	Nov. 29	2950	678	85	1247
Hotz, Christoph, Chicago, Ill. Wagon	603,818	May 10	1042	232	83	820
Houde, Jean L. P., Montreal, Canada. Combined sleigh and carriage	598,291	Feb. 1	398	94	82	677
Hough, Amanda, Jacob's Creek, Pa. Bread-raiser	609,546	Aug. 23	2563	600	84	1200
Hough, Edward J., London, England. Life-boat	603,596	May 3	639	142, 143	83	726
Hough, Edward S., Oakland, Cal. Engine feed-water supply	608,679	Aug. 9	922	212	84	857
Hough, Robert B., assignor to Hollands Manufacturing Company, Erie, Pa. Pipe-vise	600,830	Mar. 15	2173	495	82	1671



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Hough, William I. (See Lynch and Hough.)						
Houghland, Albert C., Greenleaf, Minn. Oil-can	614,720	Nov. 22	2680	610	85	1179
Houghton, Alice E., Slidell, La. Scraper	614,810	Nov. 22	2832	652	85	1210
Houghton, Arthur A., Corning, N. Y. Process of and apparatus for drawing glass. (Reissue)	11,702	Nov. 22	2845	655	85	1213
Houghton, Edward W., Woonsocket, R. I. Speeder-machine	615,555	Dec. 6	635	145	85	1535
Houghton, Lewis T., Worcester, Mass. Safety device for firearms	609,233	Aug. 16	2002	475	84	1074
Houghton, Lewis T., and W. H. Buxton, Worcester, Mass. Pipe-thimble	605,640	June 14	1073	246	83	1577
Houk, Russell W. (See Allen, Walter J., assignor.)						
Houldsworth, Henry, Keighley, England. Detachable bush for wheelbarrow-axles	596,708	Jan. 4	451	102	82	88
Houle, Joseph, Bradford, Mass. Chimney-cap	602,451	Apr. 19	1494	341	83	313
Houlehan, John, Toledo, Ohio. Ratchet-drill	611,253	Sept. 27	2016	465	84	1883
House, Charles, Oneida, N. Y. Permutation-padlock	613,065	Oct. 25	2611	618	85	547
House, James A., assignor of one-half to W. S. Coulter, Dyer, Tenn. Oil-can and ejecting device	598,993	Feb. 15	1582	375	82	937
House, James T., Talala, Ind. Ter. Stirrup	608,605	Aug. 9	781	179	84	829
Housel, George W., Bloomsbury, N. J. Match-box	606,839	July 5	387	82	84	77
Houser, Scott, assignor of one-half to F. S. Rhoades, Bellefonte, Pa. Lock	610,813	Sept. 13	1214	230	84	1694
Houston, Joseph F., Philadelphia, Pa. Folding washbasin, water-closet bowl, bath-tub, &c	616,106	Dec. 20	1632	382	85	1762
Houston, Washington J. (See McCain, John A., assignor.)						
Hovey, Samuel C., Chicago, Ill. Sash-fastener	613,202	Oct. 25	2832	669	85	591
Hovland, Anton. (See Krogstad, Ole L., assignor.)						
How, Woodbury S., Philadelphia, Pa. Spout attachment for bottles	599,784	Mar. 1	189	47	82	1251
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Crown-post for artificial teeth	602,582	Apr. 19	1709	388	83	353
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Punch	612,665	Oct. 18	1910	452	85	390
Howard, A. S. (See Marshall, Porter, assignor.)						
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Motive engine	602,161	Apr. 12	1003	220	83	202
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Vise	616,331	Dec. 20	2073	483	85	1849
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Shearing implement	616,332	Dec. 20	2074	483	85	1849
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Mechanical movement	616,333	Dec. 20	2076	484	85	1850
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Nut-locking device	616,419	Dec. 20	2238	522	85	1882
Howard & Bullough American Machine Company. (See Eatough, Jonathan, assignor.)						
Howard & Bullough American Machine Company. (See Hopkinson and Tyack, assignors.)						
Howard, Charles B., assignor, by mesne assignments, to J. B. Renton Company, Lynn, Mass. Rand-forming machine	615,708	Dec. 13	896	207	85	1602
Howard, Charles D., Syracuse, N. Y. Furnace or heater	616,844	Dec. 27	3028	704	85	2057
Howard, Clarence H. (See Schaffer, Morse B., assignor.)						
Howard, Denison L., San Francisco, Cal. Wiper-rod-holding attachment for guns	613,860	Nov. 8	1134	260	85	853
Howard, Edward R., Lawrenceville, Pa. Coin-controlled apparatus	600,314	Mar. 8	1276	291	82	1482
Howard, George C., Wallingford, Pa. Means for connecting hubs, couplings, or the like to shafts	602,181	Apr. 12	1032	226	83	208
Howard, George M., Joplin, Mo. Pole-climber	613,007	Oct. 25	2514	598	85	527
Howard, Henry J. M., Washington, D. C. Hose-rack	601,653	Apr. 5	52	10	83	11
Howard, Henry J. M., Washington, D. C. Hose-reel	613,515	Nov. 1	545	123 124	85 85	719
Howard, James, London, England. Driving-gear for bicycles	611,170	Sept. 20	1853	427	84	1893
Howard, James H., Medford, Mass. Safe or vault	613,680	Nov. 8	799	184	85	790
Howard, Kitty L. (See Rhodes, Hiram N., assignor.)						
Howard, Samuel, Manchester, England. Solo attachment for organs	596,510	Jan. 4	87	19	82	19
Howard, Samuel I., Worcester, Mass. Skylight-lifter	604,473	May 24	2308	524	83	1116
Howard, Samuel I., Worcester, Mass. Machine for cleaning bricks	609,547	Aug. 23	2564	600 601	84	1200
Howard, Thomas, <i>et al.</i> (See Lynn, Michael J., assignor.)						
Howard, Thomas, Ashland, assignor of one-half to W. S. Harrison, Louisville, Ky. Bottle-stopper	613,066	Oct. 25	2612	618	85	547
Howard, Wallace B., <i>et al.</i> (See Anderson, Lee, assignor.)						
Howard, William D. M., Redwood City, Cal. Subterranean electric conduit	596,812	Jan. 4	629	145	82	121
Howard, William H., Wokingham, England. Stand for bicycles	605,429	June 7	708	158	83	1489
Howard, William H., assignor of one-half to L. W. Sweet and E. P. Ellsworth, New York, N. Y. Check or other negotiable instrument	599,841	Mar. 1	315	70	82	1272
Howard, William H., assignor of one-half to L. W. Sweet and E. P. Ellsworth, New York, N. Y. Check or similar instrument	599,842	Mar. 1	316	71	82	1272
Howarth, James A., assignor to Hoggson & Pettis Manufacturing Company, New Haven, Conn. Chuck	597,558	Jan. 18	1897	441	82	404
Howden, James, Glasgow, Scotland. Furnace-front for steam-boilers	608,376	Aug. 2	368	80, 81	84	729
Howdon, William R. (See Watters, Howdon, and Jacobs.)						
Howe & Davidson. (See Davidson, Frank B., assignor.)						
Howe, Edwin C. (See Crocker, Eben C., assignor.)						
Howe, Edwin C. (See Crocker and Howe.)						
Howe, Eleanor E., Bridgeport, Conn. Corset	609,434	Aug. 23	2355	555	84	1162
Howe, Elmer E. (See Warner and Howe.)						
Howe, George F., Manchester, N. H. Paper-delivering device	601,144	Mar. 22	2690	618	82	1784
Howe, Lucien F., New York, N. Y. Skirt-binding	599,041	Feb. 15	1666	394	82	954
Howe, Martin V. B., Gardner, Mass. Rotary steam-engine	606,969	July 5	574	126	84	114
Howe, Oliver I., Beverly, Mass., assignor, by mesne assignments, to Morley Finishing Machine Company, of Maine. Fore part for boot or shoe trees	610,235	Sept. 6	177	40	84	1476
Howe, Percy C., Boston, Mass. Alarm-clock attachment	596,680	Jan. 4	392	88	82	78
Howe Scale Company. (See Pearsons, Fillmore A., assignor.)						
Howe, Solon G., assignor of one-half to D. Inglis, Detroit, Mich. Pipe tapping and connecting device	600,831	Mar. 15	2174	495 496 581	82	1672
Howe, Thomas J., D. J. Ames, and H. N. Labare, Owatonna, Minn. Combined churn and butter-worker	597,905	Jan. 25	2493	582 583	82	533
Howe, William D., Moorefield, Ky. Carriage-wrench	601,323	Mar. 29	3048	687	82	1879
Howe, William H., and P. Stieferman, Kliever, Mo. Pulverizer	602,329	Apr. 12	1282	284	83	259
Howell, Edward W., New York, N. Y. Apparatus for producing artificial refrigeration	612,804	Oct. 18	2158	514	85	438
Howell, George R., Southampton, N. Y. Lemon-squeezer	598,150	Feb. 1	128	29	82	627
Howell, George R., Southampton, N. Y. Can-opener	602,757	Apr. 19	2014	456	83	412



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Howell, John, assignor of one-third to U. E. Essner, Canton, Ohio. Carriage-tongue	603,604	May 3	658	147	83	730
Howell, John, assignor of one-third to U. E. Essner, Canton, Ohio. Thill-iron	613,996	Nov. 8	1355	308	85	897
Howell, John C. (See Hollick, Thomas D., assignor.)						
Howell, John W., Johnstown, Pa. Thill-coupling	608,680	Aug. 9	923	212	84	857
Howell, Thomas J., London, England. Microphone	607,994	July 26	2714	579	84	578
Howell, William, L. E. Carrier, and J. MacLagan, Chicago, Ill. Holder for lamps and parcels for bicycles	612,646	Oct. 18	1877	445	85	383
Howells, John, Sagon, Pa. Mail-bag fastener	607,375	July 12	1392	296	84	286
Howgate, Joseph W., Wilmington, Del. Harness suspending and releasing apparatus	609,675	Aug. 23	2819	657	84	1249
Howitt, Felix J. (See Lewis and Howitt.)						
Howl, Oliver, Tipton, England. Brick-drying truck	611,965	Oct. 4	637	155 156	85	124
Howland, Allen E., Grand Rapids, Mich. Water-tube boiler	613,839	Nov. 8	1096	249 250	85	845
Howland, Arthur H., Worcester, Mass., assignor to F. C. Austin, Chicago, Ill. Sprinkling-vehicle	612,805	Oct. 18	2164	514	85	439
Howland, Arthur H., Worcester, Mass., assignor to F. C. Austin, Chicago, Ill. Sprinkling-vehicle	616,334	Dec. 20	2078	484	85	1850
Howland, Marshall T., Pittsford, Vt. Whip-socket and rein-holder	598,871	Feb. 8	1357	327	82	878
Howland, Richard S., Providence, R. I. Car-ventilator	615,275	Dec. 6	102	27	85	1433
Howland-Sherman, Charles H. (See Cunningham and Howland-Sherman.)						
Howlett, Michael J., Bayonne, N. J. Cleaning device for tubular boilers	598,249	Feb. 1	313	72	82	661
Howlett, William J., et al. (See Merrill, Nathaniel C., assignor.)						
Howley, Michael J. (See O'Hara, Arthur J., assignor.)						
Hoxie, Albert N., Boston, Mass., assignor of two-thirds to N. C. Merrill, New York, N. Y. Safety gas-fixture	604,617	May 24	2561	584	83	1163
Hoy, Martin S., Wilkesburg, Pa. Protractor	606,344	June 28	2444	566	83	1874
Hoyer, Gustav, assignor to Fahrradwerke Weltrad, vormals Hoyer & Glahn, Schönebeck, Germany. Pipe-joint	604,863	May 31	2996	688	83	1265
Hoyt, Adrian H., Penacook, N. H. Electrical measuring instrument	600,265	Mar. 8	1208	274	82	1469
Hoyt, Adrian H., Penacook, N. H. Maximum meter	601,256	Mar. 29	2906	662	82	1852
Hoyt, Adrian H., Penacook, N. H. Electrostatic generating-machine	603,041	Apr. 26	2508	569	83	520
Hoyt, Adrian H., Penacook, N. H. Hinge connection for electrical measuring instruments	603,042	Apr. 26	2509	569	83	521
Hoyt, Adrian H., Penacook, N. H. Recording device for measuring instruments	616,669	Dec. 27	2725	632	85	1994
Hoyt, Albert H., Everett, assignor of one-half to S. C. Rowell, Boston, Mass. Clutch mechanism	598,932	Feb. 15	1468	351	82	915
Hoyt, Charles H. (See McTigue, Thomas J., assignor.)						
Hoyt, Frederick M. (See Atwood, George F., assignor.)						
Hoyt, Iven J., Watseka, Ill. Car	602,079	Apr. 12	848	185	83	172
Hoyt, Matthew L., Birtchton, and H. Feldmeier, assignors to D. H. Burrell & Co., Little Falls, N. Y. Centrifugal milk-tester	610,650	Sept. 13	924	213	84	1635
Hoyt, Rufus L., assignor of one-half to W. H. McMullen, Minneapolis, Minn. Band-saw mill	607,931	July 26	2607	553	84	558
Hoyt, Thomas H., and J. Gillet, assignors to Milwaukee Manufacturing Company, Milwaukee, Wis. Means for attaching crank-arms to crank-shafts	603,692	May 10	821	181	83	777
Hoyt, Walter B., Elmhurst, N. Y. Combined excess and back pressure check for gas-meters	613,681	Nov. 8	801	184	85	790
Hoyt, Will F., assignor to Dowagiac Manufacturing Company, Dowagiac, Mich. Shoe-drill	616,616	Dec. 27	2603	604	85	1971
Hoyt, William E., New York, N. Y. Sad-iron	607,376	July 12	1394	297	84	286
Hoyte, Phil L., and W. T. Wood, Nashville, Tenn.; said Wood assignor to said Hoyte. Measuring mechanism for box or can filling machines	602,330	Apr. 12	1283	284	83	259
Hruza, Frank J., Cincinnati, Ohio. Last for shoes and standard for supporting same	615,989	Dec. 13	1403	328 329	85	1699
Hubbard, Albert S. (See Chamberlain and Hubbard.)						
Hubbard, Arthur O., Minneapolis, Minn. Folding box	606,459	June 23	2656	611 612	83	1916
Hubbard, Charles W., Pittsburg, Pa. Lock-nut	597,982	Jan. 25	2635	616	82	562
Hubbard, Ely y Seale, Rancho, Tex. Rope-measuring machine	610,846	Sept. 13	1266	292	84	1705
Hubbard, Frank G., assignor of one-half to E. Anderson, Minneapolis, Minn. Rotary engine	613,682	Nov. 8	802	184 185	85	790
Hubbard, Frederic P., Durham, Conn., assignor of one-half to Merriam Manufacturing Company, of Connecticut. Binder for file-cases	611,365	Sept. 27	2244	518	84	1925
Hubbard, George M., assignor to W. & E. T. Fitch Company, New Haven, Conn. Snap-hook	615,556	Dec. 6	637	146	85	1536
Hubbard, Oliver C., Bedford, Ind. Plow-carriage	604,351	May 17	2078	465	83	1053
Hubbard, Orville J., Buffalo Center, Iowa. Shelving	601,098	Mar. 22	2618	597	82	1770
Hubbard, Schuyler. (See Blake and Hubbard.)						
Hubbard, Woodson W., et al. (See Jacklin, Thomas G., assignor.)						
Hubbell, Charles J. and H. C., assignors to Hubbell Electric Lamp Company, Scranton, Pa. Primary battery	597,239	Jan. 11	1353	316	82	278
Hubbell Electric Lamp Company. (See Hubbell, Charles J. and H. C., assignors.)						
Hubbell, Harry C. (See Hubbell, Charles J. and H. C.)						
Hubbell, Harry C., Bridgeport, Conn. Machine for slotting screws	602,288	Apr. 12	1218	268 269	83	245
Huben, Gustavus A., Springfield, Ohio. Dovetail-countersinking machine	599,655	Feb. 22	2806	652	82	1195
Huber, Berthold, Taunton, Mass. Printing machine	608,153	July 26	2991	641 642	84	635
Huber, Edward. (See Miller and Huber.)						
Huber, Edward, Marion, Ohio. Self-adjusting journal-bearing	604,936	May 31	3115	716	83	1288
Huber, Edward, Marion, Ohio. Lifting jack	610,651	Sept. 13	926	213	84	1636
Huber, Edward, and J. W. Miller, Marion, Ohio. Swinging straw-stacker	606,059	June 21	1896	436 437	83	1747
Huber, Georg, assignor of one-half to S. Simotta, Vienna, Austria Hungary. Lubricator	616,670	Dec. 27	2725	633	85	1995
Huber, Henry, Mansfield, Ohio. Portable adjustable ladder	604,531	May 24	2411	548 549	83	1133
Huber, Jacob, Bridgeport, Conn., assignor to Hayden & Derby Manufacturing Company, New York, N. Y. Injector	604,233	May 17	1841	412	83	1008
Huber, Sigmund V., Youngstown, Ohio. Feed-table for rolling-mills. (Reissue)	11,646	Jan. 4	899	211 212	82	175
Huber, Sigmund V., Youngstown, Ohio. Rolling-mill	605,669	June 14	1122	259 260	83	1586
Huber, Sigmund V., Youngstown, Ohio. Rolling-mill	614,324	Nov. 15	1958	451	85	1032
Huber, Sigmund V., Youngstown, Ohio. Rolling-mill	614,325	Nov. 15	1960	452	85	1033
Huber, Sigmund V., Youngstown, Ohio. Feed-table for rolling-mills	614,326	Nov. 15	1962	453	85	1033



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Hubert, Achille D., Bierges, Belgium. Machine for separating wool or other fibrous material	613,571	Nov. 1	636	147	85	737
Hübner, Harry, Philadelphia, Pa. Clothes-line reel	606,666	July 5	56	12	84	13
Huckey, Benjamin J., Gorin, Mo. Farm-gate	606,367	Aug. 2	353	77	84	726
Huckins, Josephine M., Bellows Falls, Vt. Pie-pan	596,778	Jan. 4	574	132	82	110
Hudert, Joseph, Baltimore, Md. Pen and pencil box	599,130	Feb. 15	1805	430	82	979
Hudgepeth, James L., assignor of one-half to C. E. Waddell, Paragould, and G. W. Cox, Rogers, Ark. Broom-head	611,319	Sept. 27	2152	497	84	1909
Hudgins, Oscar W., and J. A. Jones, Harrison, Ark. Fruit-picker	605,461	June 7	753	172	83	1497
Hudson, Alexander A., Haverhill, Mass. Feed for heel-cutting machines	607,041	July 12	730	157	84	162
Hudson, Frank, Jersey City, and W. Meier, Newark, N. J. Harness-saddle	597,523	Jan. 18	1846	428	82	393
Hudson, George M., Birmingham, Ala. Display-box cover	600,226	Mar. 8	1131	258	82	1456
Hudson, George W. (See Avery, John, assignor.)						
Hudson, Millard F., Oakland, Cal. Bottle	616,710	Dec. 27	2803	650	85	2010
Hudson, Robert L., Barfield, Ala. Combined planter and fertilizer-distributor	601,017	Mar. 22	2492	567	82	1745
Hudspeth, Andrew B., <i>et al.</i> (See Hutchison, Francis M., assignor.)						
Hudspeth, P. N. (See Rose, Nicholas M., assignor.)						
Huebner, William A., Akron, Ohio. Hose-cleaner	597,185	Jan. 11	1267	297	82	263
Huenefeld, Ernst H. (See Carter, John R., assignor.)						
Huenefeld, Ernst H. (See James, William H., assignor.)						
Huenefeld, Ernst H., Cincinnati, Ohio. Wood-burning stove	601,565	Mar. 29	3441	782	82	1958
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	612,202	Oct. 11	1074	257	85	219
Huestis, Frederick W., assignor to Consolidated Rubber Works, Boston, Mass. Machine for making vehicle-tires	901,834	Apr. 5	397	83, 84	83	74
Huestis, Jacob L., Stockton, Cal. Kitchen-cabinet table	608,260	Aug. 2	155	38	84	685
Huett, Frederic A., Detroit, Mich. Gage-cock	597,906	Jan. 25	2497	583	82	534
Huewe, George A., assignor to Keys-Lee-Huewe Company, Cincinnati, Ohio. Auto-graphic register	598,933	Feb. 15	1471	351, 352	82	915
Huff, Charles S. (See Huffman, Robert L., assignor.)						
Huff, Chauncey F. H., and O. C. Hale, Cincinnati, Ohio. Photographic shutter	607,242	July 12	1150	246	84	237
Huff, Henry B., Covington, Tenn. Mail-pouch	615,180	Nov. 29	3546	815	85	1363
Huff, John R., Cassville, Mo. Pruning-shears	613,801	Nov. 8	1038	236	85	834
Huff, Slaughter W., assignor of one-half to J. Hilles, Baltimore, Md. Bond for electric conductors	607,746	July 19	2220	469, 470	84	466
Huff, William, and R. P. McKinley, Caseyville, Ky. Quilting-frame for sewing-machines	599,388	Feb. 22	2286	540	82	1093
Huff, William C., St. Paul, Ark. Ankle-brace	607,243	July 12	1152	246	84	238
Huff, William G. (See Banks, John W., assignor.)						
Huffman, Adam S., Pittsburg, Pa. Device for preventing discharge of gas	603,993	May 10	1354	309	83	880
Huffman, James R. G. (See Aaron and Huffman.)						
Huffman, Joshua, Noah, Tenn. Folding fire-screen	614,867	Nov. 29	2951	678	85	1247
Huffman, Robert L., assignor of one-half to C. S. Huff, Santa Ana, Cal. Check-row corn-planter	612,903	Oct. 25	2352	560, 561	85	493
Huffman, William P., Hickory, N. C. Rubber attachment for pencils	606,551	June 28	2823	650	83	1949
Huffstot, Hosea. (See Daniels, Robert E., assignor.)						
Hufing, Theron S., Scranton, Pa. Coffee-pot	612,419	Oct. 18	1463	353	85	305
Huffy, Samuel, Camden, N. J., and J. K. Caldwell, Philadelphia, Pa. Iron casting	614,427	Nov. 15	2153		85	1069
Hughendubel, Ernst, Stuttgart, Germany. Combined umbrella and cane	609,435	Aug. 23	2356	556	84	1162
Hugershoff, Franz, Leipsic, Germany. Centrifugal machine	599,422	Feb. 22	2355	555	82	1107
Huggins, Harry H. (See Evans and Huggins.)						
Hughes, Albert E., Darien, Conn. Single-delivery machine	614,109	Nov. 15	1547	354, 355	85	955
Hughes, Emma, Wichita, Kans. Desk or table attachment for furniture	604,008	May 10	1426	319	83	898
Hughes, Fred C., Detroit, Mich. Telephone-switchboard system	605,670	June 14	1124	260, 261	83	1587
Hughes, Fred C., Detroit, Mich. Cord-weight for telephone-switchboards	605,671	June 14	1129	261	83	1588
Hughes, George C., Paducah, Ky. Knob attachment	612,730	Oct. 18	2020	479	85	411
Hughes, Henry E., assignor of one-half to Easton & Burnham Machine Company, Pawtucket, R. I. Spindle	600,786	Mar. 15	2101	481	82	1659
Hughes, Joel A., Dallas, Tex. Brake for street or railway cars	597,772	Jan. 25	2261	527	82	490
Hughes, John J., Brooklyn, N. Y. Horseshoe-pad	600,078	Mar. 1	822	189	82	1375
Hughes, Joseph H., and J. T. Musgrove, Birmingham, England. Gear-case	606,840	July 5	388	82, 83	84	77
Hughes, Lawson B., <i>et al.</i> (See Bray, Edward W., assignor.)						
Hughes, Ottis, Indianapolis, Ind. Rotary engine	599,236	Feb. 15	1976	469, 470	82	1010
Hughes, Reese W., Martin's Ferry, Ohio. Attachment for tin-plate mills	598,784	Feb. 8	1220	296	82	851
Hughs, George W., Fort Worth, Tex. Lifting-jack	613,997	Nov. 8	1356	309	85	897
Hughson, Edward D. (See Jenks, Clinton E., assignor.)						
Huginin, Robert B., Hartford, Conn. Sash-fastener	608,606	Aug. 9	782	180	84	829
Hugus, George M., assignor of one-half to W. P. Cunningham, Calumet, Pa. Device for increasing crank-throw of engines	610,488	Sept. 6	646	144	84	1562
Huhn, John H. (See Sackett and Huhn.)						
Huke, Herman W., <i>et al.</i> (See Smith, Edward L., assignor.)						
Huke, Herman W., and F. P. Weston, assignors to Excelsior Needle Company, Torrington, Conn. Knitting-machine needle	600,692	Mar. 15	1953	445	82	1630
Hulbert, Duran F., St. Louis, Mo. Relief-photograph and producing same	615,025	Nov. 29	3261	748	85	1309
Hulbert, Duran F., St. Louis, Mo. Embossing photographs	615,026	Nov. 29	3262	748, 749	85	1309
Hulbert, Seymour C., assignor to Phillips & Clark Stove Company, Geneva, N. Y. Stove-base	597,416	Jan. 18	1655	384, 385	82	355
Hulbert, Seymour C., assignor to Phillips & Clark Stove Company, Geneva, N. Y. Back-flue for range-ovens	612,608	Oct. 18	1805	428, 429	85	370
Hulburd, Percy. (See Constable, Harry L., assignor.)						
Hulett, George H. (See McMyler and Hulett.)						
Hulett, George H., Cleveland, Ohio. Loading or unloading machine	606,720	July 5	154	33, 34	84	32
Hulings, Joseph S., Parker's Landing, Pa. Adjustable vehicle-spring	603,955	May 10	1287	294	83	867
Hull, Alfred A., Knoxville, Tenn. Steam-boiler-flue cleaner	600,286	Mar. 8	1238	281	82	1475
Hull, Calvin E., <i>et al.</i> (See Crandall, Jesse A., assignor.)						
Hull, Harry E., Williamsburg, Iowa. Calculator	601,470	Mar. 29	3290	744	82	1925
Hull, Jeremiah D., New York, N. Y. Trolley car	597,467	Jan. 18	1758	407	82	375
Hull, John H. (See Rich, Louis F. C., assignor.)						
Hull, John W., Dayton, Ohio. Glove-drier	606,628	June 28	2958	686	83	1974
Hull, Mattie V. (See Blake and Hull.)						
Hull, Wolcott A., New York, N. Y. Filter	606,218	June 28	2205	506	83	1826
Hullinger, Andrew, Jewett, Ohio. Wrench	597,081	Jan. 11	1101	260	82	231
Hulme, Alfred, Timperley, and J. Williams, Patricroft, England. Coin-freed automatic-delivery machine	599,100	Feb. 15	1750	415, 416	82	970



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Hulme, Alfred L., <i>et al.</i> (See Simister, Robert S., assignor.)						
Hulme, James, assignor of one-half to A. E. Burk, Philadelphia, Pa. Stopper for barrels or kegs	611,910	Oct. 4	549	134	85	109
Hulse-Anderson Company. (See Anderson, George H., assignor.)						
Hulse-Anderson Company. (See Hulse, Edwin M., assignor.)						
Hulse, Edgar J., Washington, D. C. Skylight	616,617	Dec. 27	2605	605	85	1971
Hulse, Edwin M., assignor to Hulse-Anderson Company, Columbus, Ohio. Spring-leg for couches	599,333	Feb. 22	2170	515	82	1069
Hülßen, Eduard von, Charlottenburg, Germany. Type-writing machine	606,416	June 23	2578	596 597	83	1899
Hülssner, Theodor, and P. Röhrig, Leipsic, Germany. Sewage-filter	612,904	Oct. 25	2335	561	85	493
Hult, Carl A. and O. W., Stockholm, Sweden. Apparatus for grinding round objects	615,390	Dec. 6	329	77	85	1476
Hult, Oscar W. (See Hult, Carl A. and O. W.)						
Hults, Charles, Torch Lake, Mich. Machine for upsetting links of sprocket-chains	612,847	Oct. 25	2259	539	85	475
Humann, Annie. (See Hochstrasser, Gottlieb, assignor.)						
Humann, Victor, Chicago, Ill. Match-safe	614,428	Nov. 15	2155	496	85	1069
Humble, Stephen, London, England. Self-detaching hook for winding purposes	608,123	July 26	2940	630	84	626
Humes, John H., St. Louis, Mo. Belt-fastener	600,644	Mar. 15	1855	424	82	1612
Humfrey, Charles, Northwich, England. Gas-producer	612,242	Oct. 11	1329	320 321	85	266
Hummel, Ernest, Philadelphia, Pa. Commode attachment for bedsteads	610,863	Sept. 13	1298	299	84	1712
Hummel, Georg, Munich, Germany. Alternating-current meter	600,616	Mar. 15	1815	416	82	1604
Hummell, William, Burlington, Iowa. Attachment for school-desks	596,511	Jan. 4	88	20	82	19
Humphrey, Alexander, Fairmont, W. Va. Apparatus for manufacturing glass cylinders	614,615	Nov. 22	2487	568	85	1143
Humphrey, Alexander F., Allegheny, Pa. Ammonia and water pistol	605,430	June 7	708	158	83	1489
Humphrey, Alexander F., Allegheny, Pa. Trolley-wheel	605,716	June 14	1203	278	83	1602
Humphrey, Alexander F., Allegheny, Pa. Cooking utensil	606,552	June 28	2824	650	83	1949
Humphrey, Alexander F., Allegheny, Pa. Device for throwing wagon-wheels off car-tracks	614,304	Nov. 15	1906	440	85	1022
Humphrey, Arthur L., Colorado City, Colo. Car-coupling	608,965	Aug. 9	1458	345	84	956
Humphrey, Charles, Almond, N. Y. Attachment for locomotive-engines	607,747	July 19	2221	470	84	466
Humphrey, Francis M. (See Haye and Humphrey.)						
Humphrey, Herbert A., Northwich, England. Gas or oil motor engine	611,125	Sept. 20	1774	407	84	1818
Humphrey, J. L. (See Fowler, Joseph L., assignor.)						
Humphrey, James, and B. F. Upham, assignors to P. Mason & Co., Boston, Mass. Overlay	597,677	Jan. 18	2102	492	82	442
Humphrey, John. (See Donaghy, Humphrey, and Gregg.)						
Humphrey, Seth K., Boston, Mass. Windmill	603,905	May 10	1208	273	83	851
Humphrey, Thomas J., St. Louis, Mo. Machine for compressing tobacco and securing it in boxes	614,721	Nov. 22	2681	610 611	85	1180
Humphrey, Walter B., assignor to A. G. Rodgers, Windsor, Conn. Garment-supporter	602,805	Apr. 19	2108	476	83	429
Humphrey, William A., and O. D. Kahl, Barron, Wis. Wrench	599,334	Feb. 22	2171	516	82	1070
Humphrey, William C., Jamestown, N. D. Cyclist's brace and back-support	604,677	May 24	2662	610	83	1183
Humphrey, William H. (See Balzer, Stephen M., assignor.)						
Humphreys, Alexander C., <i>et al.</i> (See Green, Henry, assignor.)						
Humphreys, Franklin E., Mason City, Iowa. Smoke-consuming fireplace	606,667	July 5	57	12	84	13
Humphreys, James W., Iroquois, Ill. Ditching-machine	607,688	July 19	2126	446	84	448
Humphreys, Thomas. (See Watson and Humphreys.)						
Humphreys, Walter C., Salisbury, Md. Automatic railway-switch	600,674	Mar. 15	1920	436	82	1624
Humphreys, Walter C., Salisbury, Md. Faucet for washbowls	615,852	Dec. 13	1147	267	85	1649
Hundhausen, Johannes, Hamm, Germany. Apparatus for draining starch	603,447	May 3	352	79	83	667
Hundhausen, Rudolf L. L., Wilmersdorf, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric switch	610,402	Sept. 6	503	110	84	1526
Hungerford, Ernest H., assignor to H. H. Babcock Company, Watertown, N. Y. Fifth-wheel	615,391	Dec. 6	330	77	85	1475
Hungerford, William H. (See Backus, John C., assignor.)						
Hunkemöller, Wilhelm A. C., Amsterdam, Netherlands. Artificial whalebone	616,465	Dec. 27	2326	-----	85	1920
Hunsinger, George E., Rainham Centre, Canada. Engine-governor	601,076	Mar. 22	2584	589	82	1764
Hunt, Charles, Syracuse, N. Y. Lemon-rulp remover and strainer	597,851	Jan. 25	2408	561	82	513
Hunt, Charles A., Jr., Lexington, N. C. Apparatus for dyeing hanks	612,343	Oct. 11	1330	321	85	266
Hunt, Charles B., assignor to New Brantston Two Reel Sewing Machine Company, Limited, London, England. Sewing-machine	600,423	Mar. 8	1452	331 332	82	1516
Hunt, Charles W., New York, N. Y. Rope-coupling	608,124	July 26	2941	630	84	626
Hunt, D. F. (See Dyer and Holmes, assignors.)						
Hunt, David. (See Rivett, Edward, assignor.)						
Hunt, David, Boston, and W. Haddow, Watertown, Mass.; said Haddow assignor to said Hunt. Ball-grinding machine	611,842	Oct. 4	435	104	85	87
Hunt, Elisha J., New York, N. Y. Car-axle box	610,056	Aug. 30	3474	806	84	1391
Hunt, Elzo B. (See Ferris and Hunt.)						
Hunt, George C. (See Farrar, John J., assignor.)						
Hunt, George D., <i>et al.</i> (See Scofield, John R., assignor.)						
Hunt, Helm & Ferris. (See Ferris, Henry L., assignor.)						
Hunt, Henry M., Indianapolis, Ind. Tandem	598,872	Feb. 8	1358	327 328	82	878
Hunt, Henry M., Indianapolis, Ind. Back-pedaling brake	610,270	Sept. 6	229	51	84	1487
Hunt, Herbert E., Pittsburg, Pa. Automatic regulator	616,842	Dec. 27	3025	703	85	2056
Hunt, James W., <i>et al.</i> (See Scofield, John R., assignor.)						
Hunt, Jonathan A., Westborough, Mass. Clamp for bicycle-saddles	601,890	Apr. 5	513	106	83	96
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	605,672	June 14	1130	262	83	1588
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	605,673	June 14	1132	262 263	83	1588
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	606,146	June 21	2057	471	83	1778
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	607,565	July 19	1913	395 396	84	408
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle post and clamp	609,234	Aug. 16	2004	476	84	1074
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	613,927	Nov. 8	1241	281 282	85	874
Hunt, Leonard, St. Louis, Mo. Sunshine-recorder	607,748	July 19	2222	470	84	466
Hunt, Marshall E., assignor of one-half to G. L. Thayer, Belle Plain, Iowa. Meat-tenderer	613,572	Nov. 1	637	147	85	737
Hunt, Oscar, <i>et al.</i> (See Scofield, John R., assignor.)						
Hunt, William. (See Wright and Hunt.)						
Hunt, William, Winnipeg, Canada. Lubricator	611,126	Sept. 20	1776	407	84	1818
Hunt, William B. (See Prescott, Charles H., assignor.)						
Hunt, William E., Montreal, Canada. Bicycle-support	607,395	July 12	1418	303	84	291



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Hunt, William F., West New Brighton, assignor to C. W. Hunt Company, New York, N. Y. Endless-chain conveyer	604,234	May 17	1843	413	83	1008
Hunt, Wilson P., and C. P. A. Friberg, assignors to Deere & Mansur Company, Moline, Ill. Divided and bent axle for corn-planters	601,342	Mar. 29	3078	695	82	1885
Huntbatch, Thomas, Hampton, Iowa. Capstan	613,998	Nov. 8	1357	309	85	897
Hunter, Annah M., Paris, Ill., and L. Illmer, Jr., Washington, D. C. Thimble thread-knife	614,389	Nov. 15	2072	477	85	1055
Hunter Arms Company. (See Jones, Walter G., assignor.)						
Hunter, Charles N., Versailles, Ind. Thill-coupling	615,990	Dec. 13	1407	329	85	1700
Hunter, David E., Cambridge, Mass. Library-shelving	597,186	Jan. 11	1268	297 298	82	263
Hunter, David E., Cambridge, Mass. Library shelving, stack, &c	605,291	June 7	448	99 100	83	1437
Hunter, David E., Cambridge, Mass. Machine for operating on cards	612,600	Oct. 18	1807	429 430	85	371
Hunter, David H., La Grange, Ga. Cotton-planter	608,456	Aug. 2	513	115	84	757
Hunter, F. E. (See Schairer, John J., assignor.)						
Hunter, George D. (See Reeves, John M., assignor.)						
Hunter, Henry C., Alameda, Cal. Combined body-blank and connecting-strip for packing-cans	604,394	May 24	2148	482	83	1087
Hunter, James A., et al. (See Armstrong, Harry Y., assignor.)						
Hunter, John A., Philadelphia, Pa. Converting cast-iron into steel or malleable iron	600,948	Mar. 22	2373		82	1723
Hunter, Joseph, A. Homewood, and R. Mahon, Philadelphia, Pa. Adjustable bicycle-handle	612,980	Oct. 25	2486	592	85	521
Hunter, Lytle J., Covington, Ky. Car-fender	604,395	May 24	2148	483	83	1087
Hunter, Lytle J., Covington, Ky., and W. F. Peters, Cincinnati, Ohio; said Peters assignor to said Hunter. Station-indicator	610,271	Sept. 6	230	52	84	1487
Hunter, Marjory, Edinburgh, assignor to R. R. Cockburn, Leith, Scotland. Bulkhead for ships, &c	608,047	July 26	2826	602	84	602
Hunter, Richard J., Goodwill Hill, Pa. Power-frame for pumps	602,849	Apr. 26	2190	497	83	460
Hunter, Rudolph M., Philadelphia, Pa. Electric railway	605,824	June 14	1406	322	83	1639
Hunter, Rudolph M., Philadelphia, Pa. Apparatus for dyeing	614,868	Nov. 20	2253	678 679	85	1248
Hunter, Samuel, Leechburg, Pa. Stair-rail	606,147	June 21	2058	472	83	1778
Hunter, Silas H., Cleveland, Ohio. Fog-whistle	606,668	July 5	59	12	84	14
Hunter, Victor E., Cleburne, Tex. Governor	614,388	Nov. 15	2071	477	85	1054
Hunter, Victor E., assignor of one-half to J. D. Olier, Cleburne, Tex. Automatic stopping mechanism for engines	597,198	Jan. 11	1289	301 302	82	267
Hunter, Walter. (See Pett, Frank S., assignor.)						
Huntington, Charles C., Memphis, Tenn. Sheet-iron stove	599,449	Feb. 22	2410	566	82	1118
Huntington, Thomas, and F. Heberlein, Pertusola, Italy. Treating sulfid ores of lead, &c., preparatory to smelting	600,347	Mar. 8	1331		82	1494
Huntley, William W., Silver Creek, N. Y. Separating-machine	616,189	Dec. 20	1810	418	85	1797
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake connection-rod	606,148	June 21	2059	472	83	1779
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	606,345	June 28	2445	567	83	1874
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake connection-rod	607,854	July 26	2467	523	84	531
Hunziker, Adolph A., St. Louis, Mo. File and binder	605,717	June 14	1204	278	83	1602
Hurd, Burdett L. (See Thorp, Thomas J., assignor.)						
Hurd, Samuel B., Earlville, Ill. Hay-rack	609,102	Aug. 16	1762	419	84	1025
Hurford, Alvin. (See Bowman, Newton K., assignor.)						
Hurford, Alvin, Canton, Ohio. Mine trap-door	615,276	Dec. 6	103	27, 28	85	1433
Hurlbut, Daniel N., New York, N. Y. Gas water-heater	613,999	Nov. 8	1359	309	85	898
Hurlbut, Daniel N., New York, N. Y. Rail-joint attachment	614,171	Nov. 15	1653	380	85	975
Hurlbut, Frank, assignor to A. C. Clark, Chicago, Ill. Dental spittoon. (Reissue)	11,696	Sept. 27	2685	620 621	84	2008
Hurlbut, George H., Belvidere, assignor to J. H. Smith, Chicago, Ill. Magazine-camera	616,107	Dec. 20	1634	382	85	1762
Hurlbut, Rufus H., Sudbury, Mass. Chuck	599,562	Feb. 22	2616	613 614	82	1157
Hurley, Daniel, assignor to C. Cooper, Bennington, Vt. Circular-knitting machine	607,798	July 19	2326	453 494	84	485
Hurley, Daniel J., assignor to New Haven Clock Company, New Haven, Conn. Clock-dial-fastening device	616,237	Dec. 20	1912	442	85	1817
Hurley, John, assignor of one-half to J. O'Rourke, Little Falls, N. Y. Tank for disinfecting razors	612,041	Oct. 11	891	198	85	167
Hurley, Timothy. (See Ellis, Wynn E., assignor.)						
Hurliman, Karl, Rankin, Ill. Grain-conveyer	599,785	Mar. 1	191	48	82	1251
Hurrell, James and R. W., Brooklyn, N. Y. Safety-check for elevators	602,944	Apr. 26	2357	538	83	493
Hurrell, Robert W. (See Hurrell, James and R. W.)						
Hurst, Daniel, Eccles, England. Water-closet	616,843	Dec. 27	3027	703 704	85	2056
Hurst, Edward, and A. J. E. Jones, Birmingham, England. Machine for assembling cycle or similar wheels	610,652	Sept. 13	927	214	84	1636
Hurst, Fred P., Aurora, Ore. Bicycle attachment	597,287	Jan. 11	1423	334	82	292
Hurst, Harris P., Summit, Miss. High-explosive shell and fuse therefor	608,125	July 26	2942	631	84	626
Hurst, John, Nelson, Wash. Device for removing broken drill-rods	604,327	May 17	2025	453	83	1043
Hurst, Willis T., assignor of two-thirds to B. A., E. C., and E. D. Baxter, Mansfield, Ohio. Track-cleaner	605,431	June 7	709	158	83	1489
Hurth, John A. (See Pearce, William J., assignor.)						
Huse, Frederick R., Winchester, assignor to North Carolina Mica Company, Boston, Mass. Lamp-chimney	613,277	Nov. 1	95	22	85	634
Huse, Frederick R., Winchester, assignor to North Carolina Mica Company, Boston, Mass. Lamp-chimney	613,278	Nov. 1	96	22	85	635
Huse, Warren D., Laconia, N. H. Bobbin-winding machine	602,583	Apr. 19	1711	389	83	353
Huse, Warren D., Laconia, N. H. Thread-tension device	614,268	Nov. 15	1853	428	85	1012
Husham, Carl, Osnabrück, assignor to Felten & Guilleaume, Mülheim-on-Rhine, Germany. Flexible metallic tube-conduit	607,932	July 26	2610	553	84	558
Huss, Theodore. (See Buck and Huss.)						
Hüssener, Albert, Essen-on-the-Ruhr, L. Holbeck, and J. Kirschfink, Uechedorf, Germany, assignors to said Hüssener. Horizontal coke-oven	615,709	Dec. 13	898	207 208 209	85	1602
Hussey, George B., Providence, R. I. Brush-holder	606,970	July 5	576	127	84	114
Hussey, George B., Providence, R. I. Handle, rod, and pole coupling	613,903	Nov. 8	1205	275	85	866



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Hussey, George B., Providence, R. I. Brush.....	615,853	Dec. 13	1148	268	85	1650
Hussey, John E., and A. I. Summers, Bristol, England. Back-pedaling brake.....	605,718	June 14	1205	278 279	83	1602
Hussey, Patrick L., Dayton, Ohio. Bicycle-wheel hub.....	611,787	Oct. 4	337	81	85	68
Hussey, Patrick L., Dayton, Ohio. Ball-bearing.....	612,647	Oct. 18	1878	445	85	383
Hussey, Patrick L., assignor to Davis Sewing Machine Company, Dayton, Ohio. Combination crank and shaft.....	612,499	Oct. 18	1595	381	85	330
Huston, Abram F., Coatesville, Pa. Boiler-brace.....	605,432	June 7	711	159	83	1490
Huston, Charles L., Coatesville, Pa. Machine for dishing plates.....	601,556	Mar. 29	3443	782	82	1958
Huston, Herman F. (See Pearson and Huston.)						
Huston, Wayman S., assignor of one-half to W. T. Hardesty, Blandinsville, Ill. Manger-guard.....	611,999	Oct. 4	709	171	85	139
Hutchens, Isaac C., <i>et al.</i> (See Hutchens, John F., assignor.)						
Hutchens, John F., assignor of three-fifths to W. and I. C. Hutchens, Pioneer, Mo. Bag-fastener.....	612,107	Oct. 11	919	224	85	190
Hutchens, John F., assignor of three-fifths to W. and I. C. Hutchens, Pioneer, Mo. Bag-fastener.....	612,108	Oct. 11	921	224	85	190
Hutchings, Wilson, <i>et al.</i> (See Hutchens, John F., assignor.)						
Hutches, Benjamin F., Jr., Galveston, Tex., assignor of one-fourth to H. M. Weaver, Mansfield, Ohio. Game apparatus.....	609,348	Aug. 16	2206	522	84	1114
Hutcheson, George C., assignor, by mesne assignments, of one-half to J. R. Elliott, St. Louis, Mo. Car-fender.....	605,284	June 7	431	97	83	1434
Hutchings, George S. (See Skinner, Ernest M., assignor.) (Reissue.)						
Hutchings, Harry, <i>et al.</i> (See Habermann, George J., assignor.)						
Hutchins, Charles A., Halifax, Canada. Attachment for buoy-cables.....	612,109	Oct. 11	923	224	85	191
Hutchins, Ellen, administratrix. (See Hutchins, Henry.)						
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shedding mechanism for looms.....	596,879	Jan. 4	737	173	82	144
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shedding mechanism for looms.....	605,825	June 14	1414	322 323	83	1641
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom.....	606,553	June 28	2825	650	83	1949
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom-temple.....	607,377	July 12	1395	297 298	84	286
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Swivel-loom.....	614,390	Nov. 15	2073	477 478 479	85	1055
Hutchins, Harry R. (See Hess and Hutchins.)						
Hutchins, Henry, deceased, Council Bluffs, Iowa; E. Hutchins, administratrix. Pillow-sham holder.....	597,417	Jan. 18	1658	385	82	355
Hutchinson, Daniel. (See Kay and Hutchinson.)						
Hutchinson, Edwin H., Jamestown, Ark. Saw.....	605,577	June 14	938	219	83	1554
Hutchinson, Ira C. (See Jolley, Benjamin C., assignor.)						
Hutchinson, James H., New York, N. Y. Radiator attachment.....	599,708	Mar. 1	59	13	82	1228
Hutchinson, Thomas F., Chicago, Ill., assignor to American Cotton Company, New York, N. Y. Multiple cotton-gin.....	616,466	Dec. 27	2327	542 543	85	1920
Hutchinson, Thomas H., Brooklyn, N. Y. Urinal-pan.....	602,080	Apr. 12	849	185	83	172
Hutchinson, Warren B. (See Mixer, William M., assignor.)						
Hutchison, Ephraim K., Denver, Colo. Automatic draft-regulator for steam-boilers.....	597,375	Jan. 11	1588	368	82	327
Hutchison, Ephraim K., Denver, Colo. Damper-regulator.....	608,966	Aug. 9	1460	345 346	84	956
Hutchison, Francis M., assignor to himself, W. W. Hutchison, and A. B. Hudspeth, Mayfield, Ky. Picker-stick attachment.....	615,220	Nov. 29	3658	839	85	1385
Hutchison, George D., Chicago, Ill. Telescope-bag.....	598,095	Feb. 1	45	11	82	612
Hutchison, Hugh B., <i>et al.</i> (See Tyler, William E., assignor.)						
Hutchison, John W., D. H. and L. Bumpus, Centre View, Ohio. Dispensing-case.....	614,000	Nov. 8	1361	309 310	85	894
Hutchison, Reese, assignor of three-fourths to J. H. Wilson and J. A. Maloney, Mobile, Ala. Controlling-switch for electric motors.....	612,203	Oct. 11	1075	257 258	85	220
Hutchison, Richard, Somerville, Mass. Steam-boiler.....	614,206	Nov. 15	1714	393 394	85	988
Hutchison, Thomas L., <i>et al.</i> (See Brooks, Milton G., assignor.)						
Hutchison, William W., <i>et al.</i> (See Hutchison, Francis M., assignor.)						
Huth, Alfred H., London, England. Spring-metal tire.....	598,994	Feb. 15	1584	375 376	82	938
Hutin, Maurice, and M. Leblanc, Paris, France. Electric-current leveler.....	613,205	Oct. 25	2844	671	85	592
Hutin, Maurice, and M. Leblanc, Paris, France. Method of and means for synchronizing.....	613,206	Oct. 25	2847	671 672	85	593
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Method of and apparatus for generating alternating currents.....	606,761	July 5	235	50	84	48
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Alternating-current dynamo.....	606,762	July 5	241	51	84	48
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Alternating-current-motor system and operating same.....	613,203	Oct. 25	2833	669 670	85	591
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Alternating-current asynchronous machine.....	613,204	Oct. 25	2839	670 671	85	592
Hutson, Henry A., Chicago, Ill. Nut and nut-lock.....	605,578	June 14	939	219	83	1554
Hutson, John T., Columbia, S. C. Machine for stirring and agitating ores.....	599,843	Mar. 1	317	71	82	1273
Hutson, Washington J., Flat Woods, Tenn. Boring and mortising machine.....	613,008	Oct. 25	2515	599	85	527
Hutton, George H. and George H., Jr., Baltimore, Md. Tilting dashboard.....	612,204	Oct. 11	1080	258	85	221
Hutton, George H. and George H., Jr., Baltimore Md. Tilting dashboard.....	612,205	Oct. 11	1081	259	85	221
Hutzel, Benedict, New York, N. Y. Billiard-cue.....	608,457	Aug. 2	514	115	84	758
Huxley, Charles E., Aurora, assignor of two-thirds to F. Wahl, Sr., and G. E. Ricker, Quincy, Ill. Valve-remodeling device.....	598,662	Feb. 8	1022	246 247	82	814
Huxley, Charles E., Aurora, assignor of two-thirds to F. Wahl and G. E. Ricker, Quincy, Ill. Implement for remodeling valve-seats.....	614,226	Nov. 15	1760	404	85	996
Hwass, Leonard, assignor to G. Buschgens & Sohn, Crefeld, Germany. Apparatus for dyeing, &c.....	597,716	Jan. 25	2170	507	82	472
Hyams, David. (See Ross, Archia L., assignor.)						
Hyatt, Charles M., Albany, N. Y. Game-board.....	611,453	Sept. 27	2416	554	84	1957
Hyatt Roller Bearing Company. (See Tellefsen, Theodore J., assignor.)						
Hyatt, Samuel W., assignor of one-half to J. W. Moninger, Greersville, Ohio. Lever mechanism.....	600,125	Mar. 1	968	214	82	1407



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Hyde, Alfred L., Newark, N. J. Gate-valve.....	608,681	Aug. 9	924	213	84	857
Hyde, Benjamin. (See Dietrich, Ludwig, assignor.)						
Hyde Fountain Company. (See Hyde and Buckley, assignors.)						
Hyde, George B., Grand Rapids, Mich. Loose-pulley lubricator.....	615,181	Nov. 29	3547	815	85	1364
Hyde, Hampden, and J. Buckley, assignors to Hyde Fountain Company, Rochester, N. Y. Drinking-fountain.....	615,182	Nov. 29	3548	816	85	1364
Hyde, John, Trenton, N. J. Track-cleaner.....	602,081	Apr. 12	850	185	83	173
Hyde, John W., assignor of one-half to W. F. Lawley, Bankston, Ala. Whiffletree.....	608,987	Aug. 9	1507	356	84	965
Hyde, Mary B. (See Lindh, Charles E., assignor.)						
Hyde, Theophilus R., Jr. (See Shipley and Hyde.)						
Hyde, Thomas, Albany, N. Y. House-ventilating system.....	606,417	June 28	2588	597	83	1902
Hyde, Walter H., assignor to L. H. Thomas, New York, N. Y. Automatic toy.....	615,277	Dec. 6	105	28	85	1434
Hydraulic Press Brick Company. (See Graves, Willis N., assignor.)						
Hyers, Reuben W., Plattsmouth, Nebr. Float-operated valve.....	596,880	Jan. 4	738	173	82	144
Hygienic Refrigeration Company (See Wood, William M., assignor.)						
Hyland, J. J., <i>et al.</i> (See Barrow, James E., assignor.)						
Hyman, David, <i>et al.</i> (See Jordan and Baum, assignors.)						
Hyman, David M. (See Hallett, Samuel I., assignor.)						
Hyman, Herbert H. (See Van Develde, John, assignor.)						
Hyman, Lena. (See Smyth, Charles, assignor.)						
Hynds, George A., Little Falls, N. Y. Tobacco-pipe.....	598,708	Feb. 8	1107	265	82	829
Hynes, Laurence, <i>et al.</i> (See Patton, Oliver C., assignor.)						
Hysert, Frank. (See Papineau and Hysert.)						
Hyslop, Peter S., Walmer, England. Heat-exchanger for fluids.....	609,676	Aug. 23	2821	658	84	1250
Hysore, Alphenas V., assignor of two-thirds to S. P. Mayo and W. J. Whitehurst, Richmond, Va. Apparatus for treating tobacco.....	601,654	Apr. 5	54	11	83	11
I. B. Kleinert Rubber Company. (See Squires, Arthur C., assignor.)						
I. L. Ellwood Manufacturing Company. (See Cary, Herbert O., assignor.)						
I. L. Ellwood Manufacturing Company. (See Lott, Edward C., assignor.)						
Iams, William T., Key, Ohio. Mustache-guard.....	600,152	Mar. 8	1017	228	82	1433
Ichthyl Gesellschaft, Cordes, Hermann & Co. (See Helmers, Ludwig O., assignor.)						
Ide, Addie F., <i>et al.</i> , executors. (See Ide, Albert L.)						
Ide, Albert L., deceased, Springfield, Ill.; A. F., F. P., and R. W. Ide, executors. Combined crank shaft and disk.....	601,965	Apr. 5	667	141	83	126
Ide, Francis P., <i>et al.</i> , executors. (See Ide, Albert L.)						
Ide, Roy W., <i>et al.</i> , executors. (See Ide, Albert L.)						
Ideal Couch and Casket Company. (See Lautner, William C., assignor.)						
Ievlev, Theodor, St. Petersburg, Russia. Explosive.....	598,096	Feb. 1	46	-----	82	612
Igoe, Andrew, <i>et al.</i> (See Parker, Theron N., assignor.)						
Igoe, Peter, <i>et al.</i> (See Parker, Theron N., assignor.)						
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Automatic stop-motion snap-switch.....	596,512	Jan. 4	90	20	82	19
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Compound brake for electric elevators.....	596,513	Jan. 4	91	20, 21	82	20
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Safety magnet-brake.....	596,514	Jan. 4	94	21	82	20
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Starting-box for electric motors.....	596,515	Jan. 4	96	22	82	21
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electric control device for elevators.....	598,097	Feb. 1	48	12	82	612
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Safety device for electric elevators.....	601,301	Mar. 29	3008	678 679	82	1873
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Means for controlling operation of electric motors.....	612,629	Oct. 18	1842	437	85	377
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Potential-switch.....	614,472	Nov. 22	2240	513	85	1100
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electric operation of elevators by three-button push systems.....	616,190	Dec. 20	1811	419	85	1797
Ihrig, Theodore E., assignor of one-half to L. Emanuel, Pittsburg, Pa. Machine for holding capsules.....	596,813	Jan. 4	632	145	82	122
Iler, Alonzo, Greer Depot, S. C. Steam-separator.....	598,630	Feb. 8	971	234	82	804
Iler, Joseph H., Troy, N. Y. Bicycle-support.....	605,433	June 7	712	159	83	1490
Ilg, Carl C., New York, N. Y. Safety apparatus for elevators.....	598,151	Feb. 1	129	30	82	627
Ill, Henry, <i>et al.</i> (See Ogden, Frederick H., assignor.)						
Illinois Refrigerator Company. (See Rainbow, Fred L., assignor.)						
Illmer, Louis, Jr. (See Hunter and Illmer.)						
Illmer, Louis, Jr., assignor to L. Illmer, Sr., Washington, D. C. Mute clavier.....	610,448	Sept. 6	573	126 127	84	1548
Illoway, Nettie, New York, N. Y. Umbrella.....	597,717	Jan. 25	2172	507	82	472
Ils, John G., San Francisco, Cal. Portable assay-furnace.....	606,149	June 21	2061	473	83	1779
Imhof, John, and S. Spring, Allegheny, Pa. Smoke-consuming furnace.....	608,862	Aug. 9	1274	297	84	921
Imler, Joseph, Kendallville, Ind. Steam piston-head.....	615,183	Nov. 29	3549	816	85	1364
Imperial Metal Company. (See Schrader, Frank C., assignor.)						
Improved Electric Glow Lamp Company. (See Joel and Fanta, assignors.)						
Improved Street Sweeper Company. (See Franz, William, assignor.)						
Incandescent Petroleum Lamp Company. (See Lucas, Paul, assignor.)						
Indiana Bicycle Company. (See White, Paul H., assignor.)						
Indiana Manufacturing Company. (See Cook, William H., assignor.)						
Indiana Manufacturing Company. (See McCutcheon, John B., assignor.)						
Indiana Manufacturing Company. (See Perry, Earle C., assignor.)						
Indiana Manufacturing Company. (See Seburn, William, assignor.)						
Indiana Manufacturing Company. (See Sharpe, Joseph K., Jr., assignor.)						
Industrial Manufacturing Company. (See Malsch, Frank, assignor.)						
Ingalls, Willis A. (See Baron and Ingalls.)						
Ingalls, Willis A., and T. S. Baron, assignors to Baron, Straus & Co., Brooklyn, N. Y. Circular-knitting machine.....	597,288	Jan. 11	1424	334	82	292
Ingersoll, Edwin C., Philadelphia, Pa. Floor-clamp.....	608,458	Aug. 2	515	116	84	758
Ingersoll, Frederick, <i>et al.</i> (See McKean, Samuel G., assignor.)						
Ingersoll, Le Grand, <i>et al.</i> (See McKean, Samuel G., assignor.)						
Ingersoll-Sergeant Drill Company. (See Sergeant, Henry C., assignor.)						
Ingerson, Harry F., Alameda, assignor of one-half to C. F. Briggs, San Francisco, Cal. Brick, tile, building-block, &c.....	614,655	Nov. 22	2556	-----	85	1156
Ingle, Jacob O., Thorp Spring, Tex. Coffee-pot.....	607,542	July 19	1870	388	84	401
Ingleby, John, Leeds, England. Machine for charging linoleum-molds.....	604,396	May 24	2152	483 484	83	1088
Ingler, William A. (See Sanford and Ingler.)						
Inglet, Andrew J., Winnfield, La. Sash-holder.....	609,810	Aug. 30	3040	711	84	1305



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Inglis, David. (See Howe, Solon G., assignor.)						
Ingman, Samuel S., Georgetown, S. C. Automatic stop-gage for cut-off saw-tables.....	615,991	Dec. 13	1408	329	85	1700
Ingoldsby, Frank S., Cripple Creek, Colo., assignor to Ingoldsby Wagon Manufacturing Company, of Colorado. Freight-car.....	613,279	Nov. 1	98	22, 23	85	635
Ingoldsby Wagon Manufacturing Company. (See Ingoldsby, Frank S., assignor.)						
Ingraham, Frederick E., Little Falls, N. Y. Handle-bar for bicycles.....	597,001	Jan. 11	955	226	82	202
Ingram, Harry, assignor of one-half to C. P. Fay and T. Firth, Jr., New York, N. Y. Hat-fastener.....	607,799	July 19	2342	494	84	489
Ingram, John R., Waxahachie, Tex. Plow.....	598,934	Feb. 15	1473	352	82	916
Ingram, Nathan D., Holyoke, Mass. Button.....	605,292	June 7	450	100	83	1438
Ingram, Nathan D., Holyoke, Mass. Combined pencil-case and comb-case.....	605,674	June 14	1134	263	83	1589
Ingrey, Charles, London, England. Folding box.....	598,344	Feb. 1	473	113	82	691
Ingrey, Charles, London, England. Weighing and recording apparatus for coal.....	607,855	July 26	2468	523, 524	84	531
Inman, Harry A., Amsterdam, N. Y. Corner-staying machine.....	599,563	Feb. 22	2618	614	82	1157
Innes, Robert W., Omaha, Nebr. Boiler.....	598,374	Feb. 1	521	126	82	701
Innis, Alonzo A., Milroy, Ind. Feeding-trough.....	608,863	Aug. 9	1275	297	84	921
Inskeep, James M., Cincinnati, Ohio, assignor to L. Inskeep. Automatic car-coupling.....	601,567	Mar. 29	3444	783	82	1958
Inskeep, James M., assignor of one-half to R. P. Overturf, Cincinnati, Ohio. Nut-lock.....	613,040	Oct. 25	2563	608	85	536
Inskeep, Louisa. (See Inskeep, James M., assignor.)						
Insull, Samuel. (See Turner, William B., assignor.)						
Interchangeable Brake Beam Company. (See Aglar, Francis B., assignor.)						
Interchangeable Last and Tree Company. (See Linfield, Moses A., assignor.)						
Interior Conduit and Insulation Company. (See Lundell, Robert, assignor.)						
Interior Conduit and Insulation Company. (See Ruete, William T., assignor.)						
International Automatic Car Coupler Company. (See Cox, Henry M., assignor.)						
International Color Photo Company. (See McDonough, James W., assignor.)						
International Register Company. (See Pratt, Charles E., assignor.)						
International Smoke Consumer Company. (See Perley, William H., assignor.)						
Internationale Hydro-Press-Gas-Compagnie. (See Rothgiesser, Georg, assignor.)						
Invention Developing Company. (See Gill, Edwin R., assignor.)						
Inventor's Novelty Manufacturing Company. (See Gartner, Alfred, assignor.)						
Inventor's Novelty Manufacturing Company. (See Mersereau, Charles H., assignor.)						
Invincible Grain Cleaner Company. (See Lanphere, Chauncey A., assignor.)						
Iowa Fence Company. (See Cundiff, Jacob H., assignor.)						
Ipson, George, <i>et al.</i> (See Davis, John A., assignor.)						
Ipson, George, Huntington, Utah. Non-refillable bottle.....	602,850	Apr. 26	2191	497	83	461
Irby, William H. (See Barnett, Shelton J., assignor.)						
Iredale, Joseph H. (See Horswill, John, Jr., assignor.)						
Iredale, Joseph H. (See Prangley, Alexander D., assignor.)						
Iredell, Charles, Elmira, N. Y. Apparatus for leaching tanbark.....	602,331	Apr. 12	1285	285	83	259
Ireland, A. Bertsell, Greene, N. Y. Governor.....	603,363	May 3	203	46	83	640
Ireland, Atwell M. (See Dinsmore and Ireland.)						
Ireland, Charles L. (See Wich and Ireland.)						
Ireland, Charles L., Manchester, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Metallic matrix for linotype-machines.....	613,818	Nov. 8	1069	243	85	840
Ireland, Charles L., deceased, (L. M. Ireland, New York, N. Y., administratrix), and F. J. Wich, Manchester, England, assignors to Mergenthaler Linotype Company, New York, N. Y. Vise-jaw for linotype-machines.....	614,550	Nov. 22	2354	539	85	1120
Ireland, Lottie M., administratrix. (See Ireland and Wich.)						
Ireland, Lottie M., administratrix. (See Wich and Ireland.)						
Ireson, Absalom S., Kelly, Va. Washboard.....	608,289	Aug. 2	209	49	84	696
Ireson, Charles L. (See Hall, Frank E., assignor.)						
Ireson, Charles L., Boston, Mass. Steam-packing.....	607,244	July 12	1153		84	238
Irish, Charles, Traverse City, Mich. Bin for powdered material.....	604,937	May 31	3117	716	83	1289
Irish, Lemuel E., Greenville, Mich. Bed-bottom casting.....	611,411	Sept. 27	2338	539	84	1943
Iron-Clad Asphalt Paving Company. (See Carson, Robert J., assignor.)						
Iron Clad Manufacturing Company. (See Haigh, Henry B., assignor.)						
Iron Clad Manufacturing Company. (See McGowan, James F., assignor.)						
Iron Clad Manufacturing Company. (See Peacock, Edward M., assignor.)						
Iron Clad Manufacturing Company. (See Reynolds, Henry S., assignor.)						
Ironclad Manufacturing Company. (See Comstock, Chester, assignor.)						
Irving, Frank K., Passaic, N. J., assignor to Ozonol Company, of New Jersey. Producing ozone.....	596,936	Jan. 4	837	198	82	162
Irwin, Charles A., <i>et al.</i> (See Crain, Sidney I., assignor.)						
Irwin, Harry T. (See Irwin, John W., R. L., and H. T.)						
Irwin, John W., R. L., and H. T., Washington, D. C.; said R. L. and H. T. Irwin assignors to said John W. Irwin. Automatic perpetual calendar.....	615,221	Nov. 29	3660	839	85	1386
Irwin, Joseph I. (See Brown, Philip C., assignor.)						
Irwin, Richard L. (See Irwin, John W., R. L., and H. T.)						
Irwin, Robert S., New York, N. Y. Hemmer.....	615,557	Dec. 6	638	146	85	1536
Irwin, Russell M., Nashville, Tenn. Portable bath-cabinet.....	601,891	Apr. 5	514	106	83	97
Isaac, Auguste P. L., Lyons, France. Apparatus for applying chenille to tulle.....	598,375	Feb. 1	522	127	82	701
Isaacs, Jacob L., St. Louis, Mo. Combination lady's toilet, tea, library, game, and work-table.....	614,722	Nov. 22	2687	612, 613	85	1181
Isaacson, Francis A., Omaha, Nebr. Waterproof trousers.....	608,126	July 26	2944	631	84	627
Isachson, Norman, Marion, Idaho. Hay-carrier.....	600,949	Mar. 22	2374	540	82	1724
Isachson, Norman, Marion, Idaho. Churn.....	608,404	Aug. 2	427	94	84	741
Isbister, William H., <i>et al.</i> , executors. (See Holman, William A.)						
Isenberg, Hermann H. (See Shelton, John J., assignor.)						
Isgrig, Jacob M. (See Smith and Isgrig.)						
Isham, Emma H., Cincinnati, Ohio. Washing-machine.....	612,110	Oct. 11	924	224	85	191
Isidor, Joseph S., New York, N. Y. Trunk-hinge.....	609,277	Aug. 16	2088	495	84	1090
Isler, Max H., Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Black substantive cotton-dyestuff.....	597,983	Jan. 25	2636		82	562
Islev-Petersen, Jens P., New York, N. Y. Filter.....	608,127	July 26	2945	631, 632	84	627
Ismay, Charles D., Newcastle-upon-Tyne, England. Making paint.....	609,936	Aug. 30	3255	760	84	1347
Israel, Adolf. (See Krekeler and Israel.)						
Israel, Adolf. (See Krekeler, Israel, and Blank.)						
Israel, Adolf. (See Krekeler, Martz, and Israel.)						
Israel, Adolf, and R. Kothe, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Disazo dye and making same.....	614,391	Nov. 15	2079		85	1055
Itasse, Gustave, Paris, France. Transferring drawings.....	611,687	Oct. 4	167	40	85	36
Ivers & Pond Piano Company. (See Dayfoot, John B., assignor.)						
Ivers, William H., Dedham, Mass. Pedal-action.....	601,018	Mar. 22	2493	567	82	1745



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Iverson, Joachim, and A. Reh, West Superior, Wis. Spike or nail extractor	616,618	Dec. 27	2607	605	85	1971
Ives, Benjamin, Chicago, Ill. Window-cupboard	597,718	Jan. 25	2173	508	82	472
Ives, Ellsworth D., Norfolk, Conn. Lubricating axle-arm	614,656	Nov. 22	2558	582	85	1156
Ives, Hobart B. (See Morton, William M., assignor.)						
Ives, Hobart B., New Haven, Conn. Sash-fastener	611,171	Sept. 20	1854	427 428	84	1833
Ivins, Ellwood, Philadelphia, Pa. Manufacture of seamless drawn tubes	601,966	Apr. 5	669	141	83	126
Ivins, Ellwood, Philadelphia, Pa. Fork side for bicycles	602,012	Apr. 5	734	157	83	139
Ivins, Ellwood, Philadelphia, Pa. Fork side for bicycles	602,013	Apr. 5	735	157	83	139
Ivins, Ellwood, Philadelphia, Pa. Machine for manufacturing seamless drawn tubes	609,147	Aug. 16	1833	434	84	1039
Ivory, James W. (See Harnden, Charles, assignor.)						
Ivory, James W., Philadelphia, Pa. Dental matrix-retainer	606,460	June 28	2659	612	83	1916
Ivy, Robert W., New London, N. C. Canopy frame for mosquito-nets	598,098	Feb. 1	51	12	82	612
Ivy, Robert W., New London, N. C. Canopy for mosquito-nets	614,473	Nov. 22	2242	514	85	1100
J. B. Fellows & Company. (See Fellows, Jerome B., assignor.)						
J. B. Renton Company. (See Howard, Charles B., assignor.)						
J. C. Russell Company. (See Henkel, George H., assignor.)						
J. C. Witter Company. (See Freret, Gustave, assignor.)						
J. E. Turney Drying Machinery Company. (See Hinken, John H., assignor.)						
J. H. Williams & Company. (See Booth and Amborn, assignors.)						
J. Hauff & Co., Gesellschaft mit Beschränkter Haftung. (See Bogisch, Alfred, assignor.)						
J. I. Case Plow Works. (See Sobey, William, assignor.)						
J. I. Case Threshing Machine Company. (See Dingee, William W., assignor.)						
J. L. Mott Iron Works. (See Hammann, Edward, assignor.)						
J. L. Mott Iron Works. (See Hammann and Hooper, assignors.)						
J. R. Clark Company. (See Mann, Henry L., assignor.)						
J. T. Perkins Company. (See Hanse, William F., assignor.)						
J. W. Sefton Manufacturing Company. (See Schmidt, Theodore F. W., assignor.)						
Jaberg, Frank A., assignor to J. and H. K. Arnold and Arnold, Putt & Co., New Philadelphia, Ohio. Riveting-machine	599,505	Feb. 22	2517	592	82	1137
Jacklin, Thomas G., assignor of one-half to J. J. Hendricks, W. W. Hubbard, and C. E. Collins, Ind. Ter. Metallic railway-tie	611,037	Sept. 20	1604	367	84	1785
Jackboice, Edward J. (See Gleason, Jackboice, and Waterson.)						
Jacks, Jonathan, Ipswich, England. Oliver	600,201	Mar. 8	1092	247 248 249	82	1448
Jackson, Albert E., and P. J. Britten, London, England. Bicycle-support	608,393	Aug. 2	401	89	84	735
Jackson, Albert R., Bound Brook, N. J. Tool for facing castings	611,254	Sept. 27	2017	465 466	84	1883
Jackson, Ambrose F., Oklahoma, Okla. Ter. Spike-extractor	602,048	Apr. 5	795	172	83	150
Jackson, Ambrose F., Oklahoma, Okla. Ter. Lock for wagon-brakes	607,749	July 19	2225	471	84	467
Jackson, Andrew, Indianapolis, Ind. Cistern-cleaner	598,250	Feb. 1	316	72	82	661
Jackson, Anthony W., assignor of one-half to J. F. Roberts, Paris, Tenn. Windlass-clamp device for raising wagon-beds	598,886	Feb. 8	1382	333	82	883
Jackson, Arthur L. (See Bundy and Jackson.)						
Jackson, Benjamin F., Cambridge, Mass. Heating apparatus	599,985	Mar. 1	564	130	82	1320
Jackson, Benjamin F., Cambridge, assignor of three-fourths to A. M. Child, Boston, Mass. Matrix-drying apparatus	603,879	May 10	1163	262	83	843
Jackson, C. H. S. (See Cobb, Ruric E., assignor.)						
Jackson, Calvin, Reading, assignor to Kelley Bros. & Spielman, Philadelphia, Pa. Gear	597,907	Jan. 25	2498	583	82	534
Jackson, Charles A., Elkhorn, Wis. Sign	612,500	Oct. 18	1596	381	85	331
Jackson, Charles J., Erie, Pa. Feed-water heater	604,249	May 17	1874	420	83	1013
Jackson, David, assignor to Jackson Patent Shell Roll Company, Pawtucket, R. I. Tobacco-cutting machine	597,148	Jan. 11	1207	283	82	251
Jackson, Dugald C. (See Frankenfield and Jackson.)						
Jackson, Dugald C., Madison, Wis., and W. B. Jackson, Grand Rapids, Mich., assignors of one-half to W. D. and J. W. Packard, Warren, Ohio. Transformer-stamping	614,474	Nov. 22	2244	514	85	1100
Jackson, E. Hilton, <i>et al.</i> , trustees. (See Cahill, Thaddeus, assignor.)						
Jackson, Edwin, <i>et al.</i> (See Jackson, Samuel, assignor.)						
Jackson, Ethel B., assignor to M. H. Jackson, Meeker, Colo. Clothes-washing device	613,632	Nov. 1	731	170	85	756
Jackson, Frederick, Karns City, Pa. Swab-valve	611,486	Sept. 27	2478	571	84	1968
Jackson, Frederick S., <i>et al.</i> (See Moon, Frank D., assignor.)						
Jackson, Harry, Kingston, N. Y. Lawn-mower	611,217	Sept. 20	1944	448	84	1849
Jackson, Herbert E., and J. A. Anderson, Barrow-in-Furness, assignors to W. H. Jackson, Bradford, England. Device for facilitating lighting of cycle or other lamps	608,154	July 26	2992	642	84	635
Jackson, Homer W., Cambridge, Ohio. Wire-and-picket-fence machine	598,785	Feb. 8	1221	296	82	851
Jackson, James, New York, N. Y. Door-lock	614,052	Nov. 8	1435	330	85	913
Jackson, Jesse W., Winston, N. C. Pinless clothes-line	610,906	Sept. 20	1374	315	84	1742
Jackson, John, London, England, assignor of one-half to A. S. Vose, Boston, Mass. Pressure and vacuum gage	608,199	Aug. 2	60	14	84	666
Jackson, John, and G. C. Boroughs, Battersea Rise, England. Apparatus for cutting cloth	603,851	May 10	1110	250	83	832
Jackson, John C., Nannie, Ga. Nailless horseshoe	598,152	Feb. 1	131	30	82	627
Jackson, John H., assignor to Staples & Hanford, Newburg, N. Y. Spring-bed work	608,048	July 26	2827	602	84	603
Jackson, John H., assignor of one-half to W. H. Streeter, Boston, Mass. Dental tool	614,723	Nov. 22	2689	613	85	1181
Jackson, John T., and F. J. Travers, Toronto, Canada. Radiator	601,655	Apr. 5	56	11	83	12
Jackson, John T., and F. J. Travers, Toronto, Canada. Steam or hot-water radiator	601,656	Apr. 5	58	12	83	12
Jackson, John W., Sharpville, Pa. Oil-can	599,389	Feb. 22	2289	540	82	1093
Jackson, Manetho C., assignor of one-half to H. D. Crippen, Denver, Colo. Rock-drill	604,152	May 17	1695	382	83	979
Jackson, Milton, and F. Soley, assignors to D. K. Miller Lock Company, Philadelphia, Pa. Knob-latch	601,077	Mar. 22	2586	589	82	1764
Jackson, Mountstuart H. (See Jackson, Ethel B., assignor.)						
Jackson Patent Shell Roll Company. (See Jackson, David, assignor.)						
Jackson, Robert F. (See Moody, Stephen P., assignor.)						
Jackson, Samuel, <i>et al.</i> , trustees. (See Jones, Lyman R., assignor.)						
Jackson, Samuel, assignor to G. D. M. R., and C. W. Grannis and E. Jackson, Syracuse, N. Y. Bucket hoisting and conveying machine	602,851	Apr. 26	2192	497	83	461
Jackson, Taylor, Kansas City, Kans. Clothes-drying apparatus	611,688	Oct. 4	169	41	85	36
Jackson, Thomas E., Brierfield, Ala. Cartridge-carrier	611,172	Sept. 20	1857	428 446 447 448	84	1834
Jackson, William, Traverse City, Mich. Basket-machine	607,689	July 19	2127	446 447 448	84	448
Jackson, William A., <i>et al.</i> (See Boyles, Hyson, assignor.)						
Jackson, William A., Elizabeth, N. J. Nut-lock	608,777	Aug. 9	1080	248	84	886
Jackson, William B. (See Jackson, Dugald C. and W. B.)						
Jackson, William E., Jr., Augusta, Ga. Automatic device for returning carriages for type-writing machines	606,669	July 5	60	13	84	14



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Jackson, William E. M., Chicago, Ill. Telephone-exchange system .....	614,207	Nov. 15	1717	394 395	85	989
Jackson, William H. (See Jackson and Anderson, assignors.)						
Jackson, William H., assignor to himself and W. F. Martin, Indianapolis, Ind. Automatic-locking switch .....	609,436	Aug. 23	2357	556	84	1162
Jacob, Charles H., Lyons, France. Apparatus for applying finishing substances to cotton fabrics .....	605,434	June 7	713	159 160	83	1490
Jacob, Chris. (See Poelman, Peter J., assignor.)						
Jacob, Ferdinand, Dinslaken, Germany. Sleeping-bag .....	598,995	Feb. 15	1584	376	82	938
Jacob, Frederick, Newark, N. J. Water-wheel .....	607,042	July 12	732	158	84	163
Jacob, Frederick, Newark, N. J. Sewing-machine .....	614,657	Nov. 22	2559	583	85	1156
Jacobs, Arthur I., Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Machine for forming nipples .....	611,634	Oct. 4	71	17, 18	85	16
Jacobs, Augustus G., Jonestown, Miss. Winding-indicator for watches .....	609,235	Aug. 16	2006	476	84	1075
Jacobs, Augustus G., Jonestown, Miss. Puzzle-map game .....	610,628	Sept. 13	891	204	84	1629
Jacobs, Edward D., Manchester, Pa. Straw-stacker .....	614,392	Nov. 15	2080	479 480	85	1056
Jacobs, Herman F. (See Cooper, George T., assignor.)						
Jacobs, Jacob, Brooklyn, N. Y. Illuminating-grating .....	596,881	Jan. 4	739	174	82	144
Jacobs, Jacob, Brooklyn, N. Y. Illuminating-grating .....	596,882	Jan. 4	740	174	82	145
Jacobs, Jacob, Brooklyn, N. Y. Illuminating-grating .....	596,883	Jan. 4	741	174	82	145
Jacobs, Jacob, Brooklyn, N. Y. Ventilating vault-cover .....	606,554	June 28	2826	651	83	1949
Jacobs, Jacob, New York, N. Y. Light for sidewalks, &c .....	614,327	Nov. 15	1963	453	85	1033
Jacobs, Peter J. (See Elker and Jacobs.)						
Jacobs, Price H., Laramie, Wyo. Car-coupling .....	614,551	Nov. 22	2357	539 540	85	1120
Jacobs, Thomas H., and J. T. Carmody, Cedar Rapids, Iowa. Hasp-fastener .....	614,552	Nov. 22	2358	540	85	1121
Jacobs, William A. (See Watters, Howdon, and Jacobs.)						
Jacobson, Charles, Erie, Pa. Gas-engine .....	607,566	July 19	1915	396 397	84	408
Jacobson, Jacob, assignor of one-half to M. Johnson and M. Anderson, Lead City, S. D. Submarine torpedo .....	597,289	Jan. 11	1426	334 335	82	293
Jacobson, Jesse A., Ottumwa, Iowa. Barrel .....	600,582	Mar. 15	1767	403	82	1594
Jacobson, John, Boston, Mass. Colored picture .....	611,380	Sept. 27	2281	527	84	1932
Jacobson, Paul, and H. Tigges, Berlin, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Oxydiamidodiphenyl and making same .....	604,049	May 17	1500	-----	83	942
Jacoby, Charles, Sr., Croton-on-Hudson, N. Y. Wrench .....	613,573	Nov. 1	637	148	85	737
Jacoby, Phillip I., San Francisco, Cal. Packing-box .....	601,568	Mar. 29	3446	783	82	1959
Jacquín, Emil, Morrison, Mo. Wood-sawing attachment for portable engines .....	607,618	July 19	2011	417	84	426
Jacquot, Jules M. J., Méhoncourt, France. Acetylene-gas generator .....	616,108	Dec. 20	1635	382	85	1762
Jaeger, Alexander and O., Philadelphia, Pa. Automatic vending-machine .....	614,553	Nov. 22	2359	540 541	85	1121
Jaeger, Charles L., Maywood, N. J. Electric recording instrument .....	605,548	June 14	882	206	83	1543
Jaeger, Otto. (See Jaeger, Alexander and O.)						
Jaenty, Victor, Paris, France. Electric battery .....	611,012	Sept. 20	1563	360	84	1777
Jaffe, Hermann. (See Sachs and Jaffe.)						
Jäger, Wilhelm, Känkendorf, Germany. Grain-lifter for mowing-machines .....	597,580	Jan. 18	1937	450	82	411
Jaggard, Samuel P., Blackwood, N. J. Jar, top, and wrench for preserving fruits or the like .....	605,482	June 14	781	179	83	1523
Jahn, Berthold, Hampshire, Ill. Lock .....	601,145	Mar. 22	2691	618	82	1784
Jahn, Max, Leipsic-Plagwitz, Germany. Stove .....	599,709	Mar. 1	60	14	82	1228
Jaixen, Joseph, and E. Harry, Buffalo, N. Y. Burial-casket .....	603,767	May 10	946	211	83	801
Jamer, Jacob and W. H., New York, N. Y. Valve .....	616,575	Dec. 27	2532	586	85	1958
Jamer, William H. (See Jamer, Jacob and W. H.)						
James, Albert A., Tecumseh, Okla. Ter. Well-curb .....	606,150	June 21	2062	473	83	1779
James, George G. (See Gilbert and James.)						
James, Jack W., Memphis, Tenn. Signal attachment for magazine-guns .....	600,787	Mar. 15	2102	481	82	1659
James, John H., London, England. Carpet-fastener .....	604,757	May 31	2819	644	83	1230
James, John W. (See Whitman and James.)						
James, John W. H., and T. R. Jordan, New York, N. Y., assignors to Anglo American Reduction Company, of West Virginia. Apparatus for treating auriferous or other ores .....	606,670	July 5	64	13	84	15
James, Joseph D., New York, N. Y. Trap .....	613,516	Nov. 1	547	124	85	719
James, Thomas S., Beaumont, Tex. Drawers-supporter .....	610,989	Sept. 20	1525	350	84	1770
James, Ulysses S., assignor to L. H. Graves, Helena, Mont. Ore-feeder .....	606,971	July 5	577	127	84	114
James, Will S., Mexia, assignor of three-fourths to J. D. Ham, W. E. Nabors, and J. L. Harvey, De Leon, Tex. Thill-coupling .....	611,320	Sept. 27	2153	498	84	1909
James, William, Birkenhead, assignor to D. A. McNeight, Liverpool, England. Velocipede .....	616,619	Dec. 27	2608	305	85	1972
James, William H., Tulse Hill, England. Pneumatic tire .....	607,043	July 12	734	158	84	163
James, William H., assignor to E. H. Huenefeld, Cincinnati, Ohio. Wood-burning stove .....	600,248	Mar. 8	1171	266	82	1463
Jameson, J. W. (See Brite, John B., assignor.)						
Jamieson, Alexander, <i>et al.</i> (See Sherrill, John G., assignor.)						
Jamieson, James, Hamilton, Canada. Sheet-metal vehicle-wheel tire .....	605,435	June 7	715	160	83	1491
Jamieson, Robert W., Rochester, N. Y. Sheet-delivery mechanism for printing-presses .....	597,114	Jan. 11	1157	272	82	241
Jamieson, Robert W., Rochester, N. Y. Cycle-saddle .....	608,682	Aug. 9	926	213	84	858
Jamieson, Robert W., Rochester, N. Y. Gearing .....	613,148	Oct. 25	2733	645	85	570
Jamieson, Robert W., Rochester, N. Y., assignor to H. A. Lozier, Cleveland, Ohio. Angle-gearing .....	596,884	Jan. 4	741	175	82	145
Jamison, Frank. (See Henis and Jamison.)						
Jamison, Robert W., Moore, Pa. Folding square .....	612,520	Oct. 18	1626	388	85	337
Jandro, Charles T., Paterson, N. J. Wagon-jack .....	602,259	Apr. 12	1165	256	83	235
Jandus Electric Company. (See Lean, George R., assignor.)						
Janell, Ida R., <i>et al.</i> (See Lawes, Walter, assignor.)						
Janes, George J. L., Chicago, Ill. Beverage compound .....	607,173	July 12	1010	-----	84	212
Janes, Henry E., New Rochelle, N. Y. Furnace .....	615,710	Dec. 13	899	209	85	1602
Janesville Machine Company. (See Sater, Hans H., assignor.)						
Janin, John V., assignor to himself and J. Giesen, Goldbasin, Wash. Suspender-clasp .....	605,719	June 14	1207	279	83	1602
Janofsky, Alexander M., assignor of one-half to H. Carstens, Chicago, Ill. Tire for vehicle-wheels .....	599,060	Feb. 15	1692	401	82	959
Janowski, John L., Chicago, Ill. Furniture-maker's clamp .....	600,617	Mar. 15	1816	416	82	1604
Jansen, Herman, Schiedam, Netherlands. Manufacture of yeast .....	613,149	Oct. 25	2734	645	85	571
Jansky, Cyril M., Au Sable, Mich. Carpet stretcher and tacker .....	604,987	May 31	3188	734	83	1303
Jaques, Joseph, St. Louis, Mo. Tobacco-pipe .....	615,027	Nov. 29	3265	749	85	1310
Jaques, Frank F., Chicago, Ill. Shipping and dispensing canister .....	611,487	Sept. 87	2480	572	84	1969
Jaquet, Jules, assignor of one-half to H. Hooker, Milwaukee, Wis. Fluid-receptacle .....	608,864	Aug. 9	1276	298	84	921



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Jaquish, Charles E. (See Keech, Samuel H., assignor.)						
Jarden, Frederick V., Philadelphia, Pa. Rail-joint	603,191	Apr. 26	2768	631	83	571
Jardine, Agnes, <i>et al.</i> (See Matthews, Marmaduke, assignor.)						
Jardine, Alexander, <i>et al.</i> (See Matthews, Marmaduke, assignor.)						
Jardine, John, Motherwell, England. Tubular boiler	615,711	Dec. 13	902	210	85	1603
Jardine, John S., Philadelphia, Pa. Stair-carpet fastener	604,585	May 24	2511	570	83	1153
Jarecki, Frederick C. (See Snow, Harlen P., assignor.)						
Jarmin, James B., Dayton, Ohio. Check-row corn-planter	596,516	Jan. 4	99	22, 23	82	21
Jarrett, John. (See Edwards, Davies, and Jarrett.)						
Jarvis, Charles M. (See Gammack, Alexander P. F., assignor.)						
Jarvis, Philip, Cedar Rapids, Nebr. Double-row cultivator	611,321	Sept. 27	2155	498	84	1909
Jarvis, Reuben P., Smith Centre, Kans. Rotary engine	602,703	Apr. 19	1933	439	83	396
Jarvis, Reuben P., Smith Centre, Kans. Rotary engine	614,001	Nov. 8	1362	310 311 312	85	898
Jarvis, William. (See Gwilliam and Jarvis.)						
Jassen, Bern, assignor of two-fifths to A. Fuchs, Newark, N. J. Self-oiling axle	605,826	June 14	1416	323	83	1641
Jauch, Joseph, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Air distributor or spreader	603,105	Apr. 26	2627	597	83	543
Jay Noble Water Clarifying Company. (See Noble, Jay, assignor.)						
Jeanesville Iron Works Company. (See Rood, Vernon H., assignor.)						
Jeanesville Iron Works Company. (See Shelhamer and Garner, assignors.)						
Jeansén, Carl F., Washington, D. C. Tongs for handling projectiles	604,758	May 31	2820	644	83	1231
Jebb, Thomas B., Orillia, Canada. Optometer	614,110	Nov. 15	1549	355	85	956
Jeffers, John G., Buffalo, N. Y. Paint-mixer	616,191	Dec. 20	1814	419	85	1797
Jefferson, Charles W. (See Smith, Edward C., assignor.)						
Jefferson, Eugene D. (See Shepard and Jefferson.)						
Jefferson, Mathews G. B. (See Jennings, William, assignor.)						
Jefferson, Rollin, Columbus, Ga. Fender for plows	601,376	Mar. 29	3127	706	82	1894
Jeffery, Henry, and J. Moxon, Stockbridge, England. Mud-guard stay for bicycles	614,954	Nov. 29	3132	718	85	1286
Jeffery, Jefferson, New Castle, Pa. Car-coupling	608,128	July 26	2947	632	84	627
Jeffery, Thomas B., Chicago, Ill. Wheel tire and felly	603,956	May 10	1289	294	83	867
Jeffery, Thomas B., Chicago, Ill. Pneumatic tire	607,245	July 12	1154	246	84	238
Jeffery, Thomas B., Chicago, Ill. Cover for pneumatic tires	614,393	Nov. 15	2082	480	85	1056
Jeffery, Thomas B., Chicago, Ill. Pneumatic tire	615,454	Dec. 6	445	105	85	1498
Jeffrey, Charles L., assignor to Steel Motor Company, Johnstown, Pa. Electric trolley device	612,132	Oct. 11	959	222	85	197
Jeffrey, James. (See Down, Thomas.)						
Jeffrey, Joseph A. (See Willson, Freeman R., Jr., assignor.)						
Jeffryes, George. (See Righter and Jeffryes.)						
Jellenik, Felix. (See Brognard, Henry A., assignor.)						
Jendis, Emil, Chicago, Ill. Shower-bath	615,48	Dec. 6	502	116	85	1509
Jenkins, Charles F., assignor of one-half to E. Berliner, Washington, D. C. Device for obtaining stereoscopic effects in exhibiting pictures	606,993	July 5	620	135	84	122
Jenkins, Charles S., assignor of one-half to F. P. Rhoades, Los Angeles, Cal. Device for suspending, opening, or closing gates	601,257	Mar. 29	2907	662	82	1852
Jenkins, Charles W., <i>et al.</i> (See Shaw, William C., assignor.)						
Jenkins, Charles W., assignor to W. F. Jenkins, Richmond, Va. Underground electric railway	612,344	Oct. 11	1333	321 322	85	267
Jenkins, David L. (See Jenkins, Rulif A. and D. L.)						
Jenkins, Edwin J., Elloree, S. C. Ax	605,878	June 21	1539	354	83	1683
Jenkins, Edwin J., Elloree, assignor of part to J. M. Oliver and H. H. Brunson, Orangeburg, S. C. Railway-switch	602,014	Apr. 5	737	157 158	83	140
Jenkins, Harry L. (See Moore, Jehiel T., assignor.)						
Jenkins, Herbert T., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Alarm device for button-machines	610,876	Sept. 13	1323	303	84	1717
Jenkins, Herbert T., assignor to Morley Button Manufacturing Company, Portsmouth, N. H. Automatic stop mechanism for wire-working machines	612,000	Oct. 4	711	171	85	139
Jenkins Iron and Tool Company. (See Jenkins, William R., assignor.)						
Jenkins, Isaac J., El Paso, Ill. Planting seed	614,002	Nov. 8	1367	312	85	899
Jenkins, Jay, Chicago, Ill. Supply-tank for gasolene-stoves	607,044	July 12	735	158	84	164
Jenkins, John E. (See Jenkins, William A., assignor.)						
Jenkins, McHenry. (See Vaughn and Jenkins.)						
Jenkins, Rulif A. and D. L., Camden, Mich. Sliding gate	613,009	Oct. 25	2517	599	85	527
Jenkins, Thomas M., Pittsburg, Pa. Hoisting-bucket	611,911	Oct. 4	551	134	85	109
Jenkins, Warner H., assignor, by mesne assignments, of one-half to V. W. Waters, Philadelphia, Pa. Construction of concrete floors for buildings	610,139	Aug. 30	3603	837	84	1418
Jenkins, William A., Jackson, assignor of one-half to J. E. Jenkins, McComb, Miss. Stock-oiler	613,150	Oct. 25	2737	646	85	571
Jenkins, William L., New Castle, Pa. Machine for doubling metal plates	598,663	Feb. 8	1025	247 248	82	814
Jenkins, William R., Bellefonte, assignor to Jenkins Iron and Tool Company, Howard, Pa. Stamping or punching press	612,001	Oct. 4	713	171	85	140
Jenkins, William R., Bellefonte, assignor to Jenkins Iron and Tool Company, Howard, Pa. Tool-head	612,002	Oct. 4	714	172	85	140
Jenkins, William R., Bellefonte, assignor to Jenkins Iron and Tool Company, Howard, Pa. Tool	613,207	Oct. 25	2852	672	85	593
Jenkins, William S., Licking, Mo. Lock attachment	605,720	June 14	1209	279	83	1603
Jenkins, Wilton F. (See Jenkins, Charles W., assignor.)						
Jenks, Albert H., assignor to T. H. Dennis and C. D. Shultz, Hornellsville, N. Y. Luggage-carrier	597,318	Jan. 11	1471	345	82	303
Jenks, Clinton E., assignor of one-half to E. D. Hughson, Lake Mills, Wis. Measuring apparatus for creameries	615,712	Dec. 13	903	210	85	1603
Jennings, George B. (See Jennings, William, assignor.)						
Jennings, Gregory. (See Klay, Jennings, and Ewing.)						
Jennings, Jacob C. (See Brown, Lewis S., assignor.)						
Jennings, John S., San Francisco, Cal. Antifrictional hank for sails	601,002	Mar. 22	2469	562	82	1741
Jennings, William, assignor of one-half to G. B. Jennings, Raytown, Mo. Vise	614,724	Nov. 22	2690	613	85	1181
Jennings, William, near Beechworth, assignor of one-half to M. G. B. Jefferson, Melbourne, Victoria. Centrifugal pump	616,576	Dec. 27	2533	586	85	1958
Jennings, William C., Camden, N. J., assignor to Watson & McDaniel Company, Philadelphia, Pa. Straightway valve	596,885	Jan. 4	743	175	82	145
Jennison, Francis J. (See Charlton and Jennison.)						
Jensen, Asmus, Louisville, Ky. Device for handling cans, &c	600,004	Mar. 1	593	136	82	1325
Jensen, Frederik, Seattle, Wash. Folding bed	610,057	Aug. 30	3475	806	84	1391
Jensen, Vilhelm A., Glasgow, Scotland. Means for coupling small pipes	609,509	Aug. 23	2506	586	84	1189



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Jeppesen, Christen J., Centreburg, Ohio. Grain-door for cars.....	612,420	Oct. 18	1464	354	85	306
Jepson, Eugene. (See Symonds, William H., assignor.)						
Jerome, Henry B. (See Enos, Albertus, assignor.)						
Jerram, Frederic O., Liverpool, England. Sewing-machine.....	602,988	Apr. 26	2427	552 553	83	505
Jeschke, Wladyslaus, Brooklyn, N. Y. Cover or binder for magazines, &c.....	602,452	Apr. 19	1495	341	83	314
Jessen, Henry L., Watsonville, Cal. Portable crushing-mill.....	602,221	Apr. 12	1103	242	83	222
Jessup, John K., F. W. and J. W. Wickham, Mound City, Kans. Tree-protector.....	600,645	Mar. 15	1856	424	82	1612
Jessup, Nathan, Indianapolis, assignor of one-half to J. A. Smith, Rossville, Ind. Metal- lic packing.....	604,474	May 24	2309	524	83	1116
Jessup, Robert W., assignor of one-half to F. H. Wheelan, San Francisco, Cal. Separ- tor.....	608,049	July 26	2828	603	84	603
Jessup, Robert W., assignor of one-half to F. H. Wheelan, San Francisco, Cal. Separ- tor.....	612,243	Oct. 11	1150	276	85	234
Jester, John R., Church Creek, Md. Toy cannon.....	608,200	Aug. 2	61	14	84	667
Jetley, Gustave. (See Jetley, Victor and G.)						
Jetley, Victor and G., London, England. Structure such as pavements, floors, &c.....	598,631	Feb. 8	972	235	82	805
Jetschick, Christian, Scranton, Pa. Bicycle-bell.....	604,884	May 31	3026	695	83	1271
Jeune, George N., Deer Wood, Minn. Vine-trimmer.....	610,449	Sept. 6	575	127	84	1549
Jewell, Edward W., Chicago, Ill. Graphite rheostat.....	597,002	Jan. 11	956	226	82	202
Jewell, Herbert S., Brooklyn, N. Y. Apparatus employed in closing boxes.....	600,348	Mar. 8	1332	305	82	1494
Jewell, Omar H., Chicago, Ill., assignor to O. H. Jewell Filter Company, of Illinois. Filter. (Reissue).....	11,672	June 28	2972	690	83	1977
Jewell, Omar H. and W. M., assignors to O. H. Jewell Filter Company, Chicago, Ill. Filter.....	612,421	Oct. 18	1466	354	85	306
Jewell, William M. (See Jewell, Omar H. and W. M.)						
Jewell, William M., assignor to O. H. Jewell Filter Company, Chicago, Ill. Controller ..	598,935	Feb. 15	1475	352	82	916
Jewett, Edwin H., Toledo, Ohio. Glass-gathering machine.....	605,483	June 14	782	180	83	1524
Jewett, George M., et al. (See Walkins, Louis E., assignor.)						
Jewett, Harvey. (See Weddel, Jewett, Taylor, and Bellis.)						
Jewett, Israel D., Greensburg, Ind. Compound for healing punctures in pneumatic tires.....	604,532	May 24	2414		83	1134
Jillson, Edwin M., West Carrollton, Ohio. Paper-feeding machine.....	609,437	Aug. 23	2360	556	84	1162
Jobbins, William F., assignor of one-half to J. Van Ruymbeke, Aurora, Ill. Apparatus for making caustic soda.....	605,102	June 7	61	18	83	1364
Jobson, Ada M., et al. (See Jobson, Edward C., assignor.)						
Jobson, Edward C., assignor of two-thirds to F. F. Williams and A. M. Jobson, San Fran- cisco, Cal. Burial apparatus.....	615,620	Dec. 6	743	172	85	1558
Jobson, George, Horncastle, assignor of one-half to J. B. Stone, London, England. Con- vertible quick or slow combustion stove.....	615,184	Nov. 29	3551	816 817	85	1365
Jocelyn, George B., assignor of one-half to H. F. Kirk, Arthur, Ill. Screw driver and drawer.....	604,250	May 17	1876	420	83	1014
Jocelyn, George L., Hannibal, Mo. Box-fastener.....	614,955	Nov. 29	3133	718	85	1286
Jodoin, Pierre, Worcester, Mass. Clothes-drier.....	606,060	June 21	1898	437	83	1748
Joel, Henry F., and F. Fanta, assignors to Improved Electric Glow Lamp Company, Limited, London, England. Electric incandescent lamp.....	616,620	Dec. 27	2610	606	85	1972
Johannet, Maxime. (See Dupont and Johannet.)						
Johannet, Maxime, Paris, France. Glass-beveling machine.....	614,811	Nov. 22	2834	652	85	1210
Johansson, Gustaf, assignor to himself, W. P. Smith, and D. Romaine, Jersey City, N. J. Valve.....	605,549	June 14	885	207	83	1544
John, Hugo. (See Werner, Wilhelm, assignor.)						
John O'Brien Boiler Works Company. (See O'Brien, John J., assignor.)						
John V. Rice, Jr., Company. (See Rice, John V., Jr., assignor.)						
Johnck, John, assignor of two-thirds to A. J. Penn and J. P. Kirby, Estherville, Iowa.) Hobby-horse.....	597,702	Jan. 18	2151	502 503	82	450
Johns, Will R., Rockford, Ill., assignor to Excelsior Automatic Knitting Machine Com- pany, Norristown, Pa. Thread-feeding mechanism for knitting-machines.....	600,788	Mar. 15	2103	481	82	1659
Johnsen, Adolf, Adelby, Germany. Velocipede driving-gear.....	610,236	Sept. 6	179	40	84	1476
Johnson, Adolph J., assignor of one-half to E. H. O. Nelson, Minneapolis, Minn. Horse- power bayonet.....	604,153	May 17	1697	382 383	83	980
Johnson, Alba B., et al. (See Austin, William L., assignor.)						
Johnson, Alba B., et al. (See Vauclain, Samuel M., assignor.)						
Johnson, Albin A. (See Burton, James L., assignor.)						
Johnson, Alfred, Philadelphia, Pa. Finger-gage for rings.....	603,957	May 10	1291	294	83	867
Johnson, Alfred, Minneapolis, Minn. Wheat separator and washer.....	615,713	Dec. 13	905	210 211	85	1603
Johnson, Alfred W. (See Reeves and Johnson.)						
Johnson, Andrew J., assignor of one-half to W. Kennard, Cleveland, Ohio. Automatic turret-head for lathes.....	603,484	May 3	439	98	83	686
Johnson, Andrew J., assignor to A. J. Johnson & Co., Cleveland, Ohio. Lathe-chuck.....	605,166	June 7	194	49	83	1387
Johnson, Anson S., Ithaca, N. Y. Type-writing-machine erasing-plate.....	602,559	Apr. 19	1670	379	83	346
Johnson, Asa, assignor of one-half to W. H. Johnson, New York, N. Y. Pneumatic de- spatch-tube system.....	600,586	Mar. 15	1690	385 386 387	82	1581
Johnson, August. (See Erickson and Johnson.)						
Johnson, August, and J. D. Cahill, assignors of one-third to A. F. Martin, McNeil, Tex. Tire-tightener.....	600,479	Mar. 8	1537	358 185	82	1535
Johnson, Axel, Oakland, Cal. Side-seam can-soldering machine.....	598,518	Feb. 8	772	186 186	82	766
Johnson, Axel, Oakland, Cal. Can-testing machine.....	598,519	Feb. 8	776	186 187	82	767
Johnson, Axel, San Francisco, Cal. Can-soldering machine.....	601,514	Mar. 29	3366	763	82	1942
Johnson, Axel S. (See Paine, Clinton J., assignor.)						
Johnson, Axel W., New York, N. Y. Pickax-socket.....	612,244	Oct. 11	1152	277	85	235
Johnson, Carroll H., Oak Grove, assignor of one-half to C. Bowling, Hiler, Mo. Hame- fastener.....	602,945	Apr. 26	2359	538	83	494
Johnson, Charles A., Everett, Mass. Bicycle-gearing.....	596,681	Jan. 4	393	88, 89	82	78
Johnson, Charles A., Sioux City, Iowa. Clevis for plows.....	610,968	Sept. 20	1479	338	84	1762
Johnson, Charles C., and J. Gravelot, Chebanse, Ill. Checking attachment for seed- planters.....	600,349	Mar. 8	1334	305	82	1494
Johnson, Charles E. (See Norling and Johnson.)						
Johnson, Charles H., Findlay, Ohio. Incubator.....	596,597	Jan. 4	249	55	82	49
Johnson, Charles H., Elmhurst, Cal. Trolley.....	598,937	Feb. 15	1477	353	82	916
Johnson, Charles M., New York, N. Y. Motor-vehicle.....	609,811	Aug. 30	3042	711 712	84	1305
Johnson, Charles S., Lynn, and G. W. Spaulding, Beverly, Mass.; said Spaulding assignor to said Johnson. Attachment for sole-leveling machines.....	604,885	May 31	3027	695	83	1271



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Johnson, Chet, and W. P. Guilfoyle, Binghamton, N. Y. Tooth-brush holder .....	615,357	Dec. 6	252	59	85	1463
Johnson, Chloe E., Springfield, Mass. Trunk-tray .....	609,349	Aug. 16	2209	522	84	1114
Johnson & Co., A. J. (See Johnson, Andrew J., assignor.)						
Johnson Company. (See Brown, William M., assignor.)						
Johnson Company. (See Du Pont, Thomas C., assignor.)						
Johnson Company. (See Entwisle, Edward B., assignor.)						
Johnson Company. (See Eyre, Richard, assignor.)						
Johnson Company. (See Moxham, Arthur J., assignor.)						
Johnson Company. (See Nather, Frank, assignor.)						
Johnson Company. (See Thomas, Joseph N., assignor.)						
Johnson Company. (See Thomas and Brown, assignors.)						
Johnson, Corydon M. and T. M., New Haven, Conn. Damper .....	613,151	Oct. 25	2739	646	85	572
Johnson, Curtis, River Falls, Wis. Thill-coupling pin and antirattler combined .....	612,042	Oct. 11	802	198	85	168
Johnson, Daniel, Ashland, Ohio. Cash-carrier apparatus .....	611,322	Sept. 27	2157	498 499	84	1910
Johnson, Edward J., assignor of one-half to A. Rambo, Sr., Austin, Pa. Wrench .....	599,844	Mar. 1	319	72	82	1273
Johnson, Eldridge R., <i>et al.</i> (See Royal, Belford G., assignor.)						
Johnson, Eldridge R., Camden, N. J. Gramophone and actuating device therefor .....	601,198	Mar. 22	2789	638	82	1802
Johnson, Eldridge R., Camden, N. J., assignor to New Jersey Wire Stitching Machine Company, of New Jersey. Stapling-machine .....	597,773	Jan. 25	2262	527 528 529 530	82	490
Johnson Electric Service Company. (See Johnson and Winkenwerder, assignors.)						
Johnson, Elisa M., Brooklyn, N. Y. Car-fender .....	603,728	May 10	877	194	83	788
Johnson, Ellery A., Rome, Ga. Hook and eye .....	610,710	Sept. 13	1025	237	84	1657
Johnson, Ernest G. (See Johnson, William L. and E. G.)						
Johnson, Ernest V., Chicago, Ill. Fireproof building .....	614,475	Nov. 22	2245	514	85	1100
Johnson, Eventine F., Nicholson, Pa. Border for flower-beds .....	606,151	June 21	2063	473	83	1779
Johnson, Everett W., Boston, and E. B. Marsh, Lexington, Mass. Coat and hat hook .....	614,476	Nov. 22	2247	515	85	1101
Johnson, Felix. (See Loudon and Shute, assignors.)						
Johnson, Ferdinand, New London, Pa. Wire-fence clamp .....	606,461	June 28	2660	612	83	1917
Johnson, Finis M. (See Gatewood, William F., assignor.)						
Johnson, Frank, Rhinelander, Wis. Adjustable handle-bar for bicycles .....	602,015	Apr. 5	738	159	83	140
Johnson, Frank, Seattle, Wash. Ship's galley .....	608,050	July 26	2831	603	84	604
Johnson, Frank A., Philadelphia, Pa., assignor to Johnson Typesetter Company, Portland, Me. Type setting and justifying machine .....	607,045	July 12	737	159 160 161 162 163	84	164
Johnson, Frank A., Philadelphia, Pa., assignor to Johnson Typesetter Company, Portland, Me. Type-justifying machine .....	607,046	July 12	751	163 164 164 165	84	166
Johnson, Frank A., Philadelphia, Pa., assignor to Johnson Typesetter Company, Portland, Me. Type setting and justifying machine .....	607,047	July 12	755	166 167 168 439	84	166
Johnson, Frank A., Philadelphia, Pa., assignor to Tachytype Manufacturing Company, Minneapolis, Minn. Machine for composing printed matter .....	611,203	Sept. 20	1906	440 441	84	1842
Johnson, Frank G., New York, N. Y. Crushing and pulverizing mill .....	615,278	Dec. 6	107	28, 29	85	1434
Johnson, Frank M., Union City, assignor of one-half to R. C. Warner, Naugatuck, Conn. Tagging-needle .....	604,759	May 31	2821	644	83	1231
Johnson, Frank O., North Clarendon, Pa. Nut-lock .....	605,788	June 14	1343	307	83	1627
Johnson, Frank P., Danville, Pa. Antirattler for thill-couplings .....	598,376	Feb. 1	525	127	82	701
Johnson, Franklin L., Valley Springs, Cal. Cork-puller .....	600,424	Mar. 8	1455	332	82	1516
Johnson, Franklin L., Valley Springs, Cal. Washing-machine .....	607,619	July 19	2012	417 418	84	426
Johnson, Frederic A., Binghamton, N. Y. Regulation of dynamo-electric machinery .....	597,418	Jan. 18	1659	385 386	82	355
Johnson, Frederic A., Binghamton, N. Y. Regulation of dynamo-electric machinery .....	597,419	Jan. 18	1662	386	82	356
Johnson, Frederick C., assignor of one-half to F. A. Bovey, Minneapolis, Minn. Ship-ping-book .....	612,928	Oct. 23	2391	569	85	501
Johnson, Frederick M. (See Davis, John T., assignor.)						
Johnson, G. Stewart. (See Annable, Warren W., assignor.)						
Johnson, George, and M. F. Smith, Allenport, assignors to themselves, and H. C. Drum, California, Pa. Automatic boiler-feeder .....	601,258	Mar. 29	2908	662	82	1852
Johnson, George E., Los Angeles, Cal. Trolley-wire hanger .....	605,251	June 7	371	84	83	1421
Johnson, George E., assignor to Peerless Fountain Cuspidor Company, Fort Wayne, Ind. Fountain-spittoon .....	597,359	Jan. 11	1550	362	82	318
Johnson, George E., assignor to Peerless Fountain Cuspidor Company, Fort Wayne, Ind. Supporting attachment for cuspidor-bowls .....	611,218	Sept. 20	1947	449	84	1850
Johnson, George H., Sisson, Cal. Momentum water-wheel bucket .....	607,246	July 12	1156	247	84	238
Johnson, Gust, New York, N. Y. Bicycle-lock .....	616,845	Dec. 27	3030	704	85	2057
Johnson, Gustaf, assignor of five-sixths to C. C., R. R., and M. D. Wentworth and P. Munson, Milwaukee, Wis. Vapor-burner .....	606,721	July 5	156	35	84	32
Johnson, Hans G., Waukon, Iowa. Pumping apparatus .....	600,425	Mar. 8	1456	332	82	1517
Johnson, Hans G., Waukon, Iowa. Washing-machine .....	605,721	June 14	1209	279	83	1603
Johnson, Hans G., Waukon, Iowa. Combination lock .....	613,280	Nov. 1	103	24	85	636
Johnson, Henry, Rahway, N. J. Pot signal .....	602,852	Apr. 26	2193	498	83	461
Johnson, Henry H., Morristown, N. J. Handle-bar for bicycles .....	602,016	Apr. 5	739	159	83	140
Johnson, Henry J., Fargo, N. D. Steam-boiler-flue cleaner .....	604,397	May 24	2154	484	83	1088
Johnson, Hilary C., Media, Pa. Marine velocipede .....	599,237	Feb. 15	1980	470 471	82	1011
Johnson, Hobart S., Madison, Wis. Tool-holder .....	604,009	May 10	1427	320	83	898
Johnson, Isaac L. (See Webb and Johnson.)						
Johnson, Ithuel M., Chicago, Ill. Permutation-padlock .....	596,596	Jan. 4	248	55	82	49
Johnson, Ithuel M., Chicago, Ill. Rotary engine .....	600,914	Mar. 22	2317	528	82	1712
Johnson, James, Birmingham, England. Slip-hook .....	608,683	Aug. 9	928	213	84	858
Johnson, James N., Hattiesburg, Miss. Vehicle-wheel .....	607,378	July 12	1396	298	84	287
Johnson, James T. (See Wantling and Johnson.)						
Johnson, Job, Glendale, N. Y. Composition of matter for pavements, roadways, &c .....	599,506	Feb. 22	2518	-----	82	1137
Johnson, Job, Glendale, N. Y. Composition for roadways, tiles, &c .....	602,082	Apr. 12	852	-----	83	173
Johnson, Johan, Washington, D. C. Steam-boiler .....	616,238	Dec. 20	1914	443	85	1817
Johnson, Johannes H., assignor of one-half to J. Fredrickson, North Cape, Wis. Saw .....	601,343	Mar. 29	3081	696	82	1885
Johnson, John, Hartford, Conn. Lock and wrench .....	598,203	Feb. 1	237	53	82	647



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Johnson, John, Tacoma, Wash. Band-saw	614,003	Nov. 8	1368	312	85	899
Johnson, John A., Madison, Wis. Sled-runner	600,812	Aug. 30	3045	712	84	1306
Johnson, John E. (See Duff, Robert D., assignor.)						
Johnson, John P., Westbrook, Minn. Wrench	601,146	Mar. 22	2692	618	82	1784
Johnson, John W., Circleville, Ohio. Ironing-machine	615,854	Dec. 13	1149	268	85	1650
Johnson, Joseph, trustee. (See Clay, Henry, assignor.)						
Johnson, Joseph D., <i>et al.</i> (See West, Wharton L., assignor.)						
Johnson, Joseph R. (See Simmons, James L., assignor.)						
Johnson, Josiah. (See Barfoot and Johnson.)						
Johnson, Justus, and W. V. Lukens, assignors to Burnham, Williams & Co., Philadelphia, Pa. Stay-bolt	602,402	Apr. 12	1409	318	83	284
Johnson, L. E. (See Barber, Melvin, assignor.)						
Johnson, Laban H., New York, N. Y. Measuring-faucet	616,671	Dec. 27	2727	634	85	1995
Johnson, Louis K., and A. A. Low, Brooklyn, N. Y. Type-setting apparatus	599,390	Feb. 22	2290	540 541	82	1094
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	596,598	Jan. 4	251	55, 56	82	49
Johnson, Margagreta, <i>et al.</i> (See Jacobson, Jacob, assignor.)						
Johnson, Olaus, and P. P. Holt, Northwood, N. D. Feed-regulator	613,574	Nov. 1	638	148	85	737
Johnson, Ole, Milwaukee, Wis. Apparatus for elevating, transporting, and discharging material	603,852	May 10	1111	250 251	83	833
Johnson-Parfitt Tool Company. (See Parfitt, Alfred, assignor.)						
Johnson, Paul J., assignor to himself and A. C. Calkins, Los Angeles, Cal. Rotary engine	600,723	Mar. 15	2004	456	82	1640
Johnson, Peter, Downer's Grove, Ill. Door-hanger	608,129	July 26	2949	632	84	627
Johnson, Peter, Boston, Mass. Tobacco-pipe	610,757	Sept. 13	1107	253	84	1672
Johnson, Reynolds H., Long Island, Kans. Car-door fastener	600,789	Mar. 15	2106	482	82	1660
Johnson, Samuel W., Duncannon, Pa. Nut-lock	596,517	Jan. 4	102	23	82	22
Johnson, Seward T., Noblesville, Ind. Bicycle driving-gear	599,061	Feb. 15	1693	401 402	82	959
Johnson, Seward T., Noblesville, Ind. Friction-clutch	599,966	Mar. 1	536	122 123	82	1314
Johnson, Sieve T., Trinidad, Cal. Circular saw	614,053	Nov. 8	1436	330	85	913
Johnson, Stephen O., Detroit, Mich. Convertible lawn mower and trimmer	616,846	Dec. 27	3031	705	85	2057
Johnson, Talbot B., Veedersburg, Ind. Basket	605,675	June 14	1135	263	83	1589
Johnson, Theodore M. (See Johnson, Corydon M. and T. M.)						
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Box-magazine firearm	597,908	Jan. 25	2499	584	82	534
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Cartridge-packet	600,366	Mar. 8	1361	311	82	1498
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Safety device for bolt-guns	606,972	July 5	579	127 128	84	115
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Box-magazine lever-gun	609,678	Aug. 23	2323	659	84	1250
Johnson, Thomas C., and H. Brewer, assignors to Winchester Repeating Arms Company, New Haven, Conn. Cartridge-packet	600,367	Mar. 8	1364	312	82	1499
Johnson, Tom J. (See Sayre and Johnson.)						
Johnson Typesetter Company. (See Johnson, Frank A., assignor.)						
Johnson Typesetter Company. (See McGrath, Patrick H., assignor.)						
Johnson, W. S. (See Blanding, Francis, assignor.)						
Johnson, Walter L., <i>et al.</i> (See Fugh, William J., assignor.)						
Johnson, Warren S. (See Gibbs, Johnson, and Winkenwerder.)						
Johnson, Warren S., and H. Winkenwerder, assignors to Johnson Electric Service Company, Milwaukee, Wis. Electric motor	607,247	July 12	1157	247	84	239
Johnson, William, Chicago, Ill. Slide-carrier	598,938	Feb. 15	1480	353	82	917
Johnson, William, Boston, Mass. Centrifugal separator	601,377	Mar. 29	3128	706	82	1895
Johnson, William A., Kahoka, Mo. Truck	607,048	July 12	771	169	84	168
Johnson, William C., Memphis, Tenn. Means for separating fiber from cotton-seed hulls	613,203	Oct. 25	2854	672 673	85	594
Johnson, William H. (See Johnson, Asa, assignor.)						
Johnson, William H., New Brunswick, N. J. Bandage	614,477	Nov. 22	2250	515	85	1101
Johnson, William H., assignor to C. A. Edgerton Manufacturing Company, Shirley, Mass. Suspender-buckle	597,240	Jan. 11	1355	316	82	278
Johnson, William L. and E. G., Buffalo, N. Y. Window-ventilator	604,618	May 24	2562	585	83	1164
Johnson, William O., Chicago, Ill. Sausage-casing machine	601,019	Mar. 22	2494	567 568	82	1745
Johnson, William R. (See Andrews and Johnson.)						
Johnson, William R. (See Rettew and Johnson.)						
Johnson, Willie H., Navasota, Tex. Mechanism for overcoming dead-centers	612,345	Oct. 11	1335	322 323	85	267
Johnsson, Axel A., Chicago, Ill. Convertible vehicle	598,936	Feb. 15	1476	353	82	916
Johnston, Abner, assignor of five-eighths to G. B. Fielder, Jersey City, N. J., and R. G. Foster, New York, N. Y. Bicycle	605,182	June 7	224	54	83	1393
Johnston, Albert J., Etna, Pa. Door-check	597,881	Jan. 25	2457	573	82	527
Johnston, Allen, Ottumwa, Iowa. Machine for milling bolsters of knives, &c	600,153	Mar. 8	1018	228	82	1433
Johnston, Allen, Ottumwa, Iowa. Apparatus for milling bolsters of knives or similar articles	600,426	Mar. 8	1458	333	82	1517
Johnston, Allen, Ottumwa, Iowa. Grinding-machine	611,323	Sept. 27	2160	499 500	84	1910
Johnston, Allen, Ottumwa, Iowa. Manufacture of table-knives	611,324	Sept. 27	2163	500	84	1911
Johnston, Allen, Ottumwa, Iowa. Machine for rolling knife-blanks, &c	614,111	Nov. 15	1550	355 356	85	956
Johnston, Augustus M. (See Downs and Johnston.)						
Johnston, David C., Marietta, Ohio. Pipe-wrench	610,450	Sept. 6	576	127	84	1540
Johnston, David C., Marietta, Ohio. Wrench	612,589	Oct. 18	1755	415	85	360
Johnston, Edward A. (See Pridmore and Johnston.)						
Johnston, Edward A., Chicago, Ill. Machine for cutting and lighting cigars	606,820	July 5	345	73	84	69
Johnston, George B., St. Thomas, Mo. Car-coupling	604,864	May 31	2997	688	83	1265
Johnston Harvester Company. (See Farrall, George A., assignor.)						
Johnston Harvester Company. (See Farrall and Pridmore, assignors.)						
Johnston Harvester Company. (See Pridmore, Edward, assignor.)						
Johnston, Hector M., and G. W. Mason, Eau Claire, Wis. Lumber-edger	604,661	May 24	2631	603	83	1176
Johnston, J. D. (See Coggeshall, Robert D., assignor.)						
Johnston, James B., and C. B. Little, Dayton, Ohio. Steam or hot-water boiler	604,886	May 31	3029	695	83	1271
Johnston, John A., and O. Sowers, St. Louis, Mo. Rubbing or polishing machine	615,621	Dec. 6	745	173	85	1559



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Johnston, John M. (See Vanorman, Oliver, assignor.)						
Johnston, John S., assignor of one-half to F. Sachse, New York, N. Y. Apparatus for developing photographic films	609,677	Aug. 23	2822	658	84	1250
Johnston, John S., Anniston, Ala., assignor of seven-twelfths to R. G. Green and F. P. Murphy, Chicago, Ill. Change-delivering device	608,778	Aug. 9	1081	249	84	886
Johnston, John S., assignor to Pottier & Stymus Company, New York, N. Y. Car-seat	605,059	May 31	3312	761	83	1326
Johnston, Jonathan, Morgan Park, assignor to H. O. Bennett, Chicago, Ill. Oil-burner	606,784	July 5	286	59	84	57
Johnston, Jonathan, Morgan Park, assignor to H. O. Bennett, Chicago, Ill. Hydrocarbon-burner	608,290	Aug. 2	211	50	84	697
Johnston, Lysander, assignor of one-half to G. I. Ladd and H. A. Buell, Chicago, Ill. Filter	605,046	May 31	3293	756	83	1322
Johnston, Mary E., Cleveland, Ohio. Extension-table	597,500	Jan. 18	1812	419 420	82	386
Johnston, Robert, River Falls, Wis. Hoisting apparatus	603,192	Apr. 26	2769	631 632	83	571
Johnston, Samuel, New York, N. Y. Manufacture of mold material and molds	598,633	Feb. 8	975		82	805
Johnston, Samuel, assignor to G. H. Sonneborn, trustee, New York, N. Y. Material suitable for molds, cores, &c.	598,632	Feb. 8	974		82	805
Johnston, Samuel J., Leesburg, Va. Wrench-jack	601,147	Mar. 22	2693	619	82	1785
Johnston, Samuel J., Leesburg, Va. Combination-tool	601,302	Mar. 29	3011	679	82	1873
Johnston, Samuel J., Leesburg, Va. Wrench-jack	607,439	July 19	1508	321	84	324
Johnston, William. (See Sundstrom, Carl A., assignor.)						
Johnston, William, Ellsworth, Wis. Neck-yoke	599,391	Feb. 22	2292	542	82	1094
Johnston, William, Jr., Somerville, Mass. Holder for penholders or pencils	612,775	Oct. 18	2104	499	85	426
Johnston, William A. (See Justice and Johnston.)						
Johnston, William A., and A. W. Browne, Prince's Bay, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Gas-administering apparatus	597,719	Jan. 25	2174	508	82	473
Johnston, William A., and A. W. Browne, Prince's Bay, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Gas-administering apparatus	601,057	Mar. 22	2555	582 583 584	82	1758
Johnston, William F., Philadelphia, Pa. Inkstand	614,869	Nov. 29	2957	679	85	1249
Johnston, William F., assignor of one-half to R. Walton, Philadelphia, Pa. Device for attaching stamps, sealing letters, &c.	602,806	Apr. 19	2109	476	83	429
Johnston, William H., Fairfield, Ohio. Thatching	614,478	Nov. 22	2250	515	85	1101
Johnston, William T. (See Crawley and Johnston.)						
Johnston, William T., Newport, Ky. Mechanism for braking steering apparatus	610,680	Sept. 13	969	224	84	1645
Johnstone, Arthur E., New York, N. Y. Flash-light apparatus	603,332	May 3	155	36	83	632
Johnstone, Huger W., Atlanta, assignor of one-half to P. H. Johnstone, Idylwild, Ga. Driving connection for bicycles	605,183	June 7	226	55	83	1393
Johnstone, John L., Footscray, Victoria. Machine for starting races	597,984	Jan. 25	2637	616	82	562
Johnstone, Paul H. (See Johnstone, Huger W., assignor.)						
Johnstone, Walter T., Macon, Ga. Fertilizer-distributor	600,079	Mar. 1	823	189	82	1375
Johnstown Fire Escape Company. (See Shires and Kennedy, assignors.)						
Joines, James J. (See Seward and Joines.)						
Jolley, Benjamin C., Chicago, Ill., assignor of one-half to I. C. Hutchinson, New York, N. Y. Match-safe	598,929	Feb. 15	1482	354	82	917
Jolly, Leslie C. (See Dewitt and Jolly.)						
Jolly, Morgan, Wynne, Ark. Railway time-indicator	609,619	Aug. 23	2716	634	84	1228
Jolly, William L., Arrowtown, New Zealand. Pneumatic tire	603,276	May 3	58	14	83	612
Jonas, Charles. (See Stelzmann and Jonas.)						
Jone, Friedrich A., Dresden, Germany. Flying-machine	605,579	June 14	940	219 220	83	1554
Jones, Albert A. (See Long and Jones.)						
Jones, Albert F., Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Machine for working hides or skins	601,808	Apr. 5	352	72	83	66
Jones, Albert F., Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Machine for working hides or skins	601,809	Apr. 5	358	73, 74	83	67
Jones, Alfred T., T. B. Smith, and C. Nilsson, Pocatello, Idaho. Trunk-strap	611,255	Sept. 27	2020	466	84	1884
Jones, Arthur. (See Weichelt, Grady, and Jones.)						
Jones, Arthur, assignor of one-half to J. P. Dommersnas, Chicago, Ill. Scroll-saw	598,729	Feb. 8	1141	274	82	836
Jones, Arthur J. E. (See Hurst and Jones.)						
Jones, Benjamin H. (See Jones, William H. and B. H.)						
Jones, Charles, Liverpool, England. Hydrant, stop-valve, or the like	601,967	Apr. 5	670	142	83	127
Jones, Charles B., assignor of one-half to F. L. Cowles, New Haven, Conn. Vehicle-brake	608,865	Aug. 9	1277	298	84	921
Jones, Daniel H., Lenoir City, Tenn. Wire-stretcher	599,610	Feb. 22	2711	634	82	1175
Jones, David S. (See Young, Josiah N., assignor.)						
Jones, Dexter J., Cleveland, Ohio. Tool for making fences	606,821	July 5	346	74	84	69
Jones, Dexter J., Cleveland, Ohio. Fence	616,538	Dec. 27	2472	573	85	1947
Jones, Dudley C. and J. M., St. John, Ky. Station-indicator	598,099	Feb. 1	52	12, 13	82	612
Jones, Edward C., Jr., San Antonio, Tex. Drinking-goblet, &c.	600,427	Mar. 8	1460	333	82	1517
Jones, Edward G., Cape Town, Cape Colony. Rail-track cleaner	604,865	May 31	2998	688 689	83	1265
Jones, Edwards P., Alameda, assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Water-wheel bucket	599,845	Mar. 1	320	72	82	1273
Jones, Edwin C. (See Jones, Frank L. and E. C.)						
Jones, Ellis T. (See Hommell, Philemon E., assignor.)						
Jones, Ellis T., Hoboken, N. J. Gas-burner	607,049	July 12	772	169	84	169
Jones, Ellis T., Hoboken, N. J., assignor to T. Adams, Jr., Brooklyn, N. Y. Gas-burner	597,319	Jan. 11	1475	345	82	304
Jones, Elsie D., Terrace Park, Ohio. Thread-cutter	599,238	Feb. 15	1983	471	82	1012
Jones, Florentine A., Malden, Mass. Pressure indicating and recording gage	596,599	Jan. 4	252	56	82	50
Jones, Frances E., Wilson, N. C. Hat-box	614,956	Nov. 29	3134	719	85	1286
Jones, Frank L. and E. C., assignors to Boston Check and Ticket Company, Boston, Mass. Perfecting platen-press	604,760	May 31	2823	645	83	1231
Jones, Frank M., et al. (See Bennum, George W., assignor.)						
Jones, Frank R., and F. S. Dearborn, Worcester, Mass. Hinge	607,050	July 12	774	169	84	169
Jones, Frank W. (See Morgan and Jones.)						
Jones, Frederick, and J. S. Brownson, Brooklyn, N. Y. Knob attachment	600,368	Mar. 8	1366	312	82	1499
Jones, Frederick G., Bristol, England. Centrifugal creamer	610,058	Aug. 30	3478	807	84	1392
Jones, George B. (See Jones, Harvey P., assignor.)						
Jones, George M., et al. (See Castle, Lewis D., assignor.)						
Jones, George P. (See Coleman, Clyde, assignor.)						
Jones, Graham P., Chicago, Ill. Car-door	609,813	Aug. 30	3046	712	84	1306
Jones, Harvey P., assignor of one-third to G. B. Jones, Chicago, Ill. Envelop moistening, sealing, and stamp-affixing machine	615,185	Nov. 29	3552	817	85	1365
Jones, Henry and J., Knoxville, Tenn. Automatic mast-gate for railway-crossings	600,873	Mar. 22	2249	512 513	82	1700



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Jones, Henry C. (See Stagman and Jones.)						
Jones, Herbert F., <i>et al.</i> (See Dallin, Bruce, assignor.)						
Jones, Howard C. (See Scherer, Loephus T., assignor.)						
Jones, Ira A., <i>et al.</i> (See Scott, William F., assignor.)						
Jones, Jacob M. (See Jones, Dudley C. and J. M.)						
Jones, James, Jr., Brooklyn, N. Y. Fusible cut-out	598,940	Feb. 15	1483	354	82	917
Jones, James A. (See Hudgins and Jones.)						
Jones, James C., Pine Village, Ind. Gate-hinge	611,325	Sept. 27	2164	500	84	1911
Jones, James E. (See Nelson and Jones.)						
Jones, James L., Starbuck, Wash. Drilling-machine	611,173	Sept. 20	1858	428	84	1834
Jones, James R., Waterford, Mich. Metal fabric for wire fences	604,398	May 24	2155	484	83	1088
Jones, Job E., and W. G. Hodge, Forbush, Iowa. Means for protecting car doors and sides.	610,990	Sept. 20	1527	351	84	1770
Jones, Jerome, Kansas City, Mo. Stovepipe-fastener	602,332	Apr. 12	1287	285	83	259
Jones, John, Liverpool, England. Bracket for supporting curtain-rods	606,152	June 21	2064	474	83	1779
Jones, John, and A. Gillies, assignors to J. E. Knox, Toronto, Canada. Street-sweeper	599,936	Mar. 1	493	111	82	1306
Jones, John, and A. Gillies, assignors to J. E. Knox, Toronto, Canada. Street-sweeper	599,937	Mar. 1	495	111	82	1307
Jones, John, and A. Gillies, assignors to J. E. Knox, Toronto, Canada. Street-sprinkler	599,938	Mar. 1	496	111 112	82	1307
Jones, John B., <i>et al.</i> (See Black, Thomas C., assignor.)						
Jones, John E., assignor of one-half to H. S. Folger, Kingston, Canada. Safety-buffer car-fender	601,441	Mar. 29	3244	731 732	82	1916
Jones, John P., assignor of one-half to J. W. Blower, Webster, Pa. Binding-post	615,455	Dec. 6	446	105	85	1498
Jones, Joseph. (See Jones, Henry and J.)						
Jones, Joseph F., Yellow Springs, Ohio. Safe-alarm	606,555	June 28	2828	651 652	83	1950
Jones, Joseph L., Rossburg, Fla. Wrench	608,866	Aug. 9	1278	298	84	921
Jones, Joseph R., Philadelphia, Pa., assignor to Union Switch and Signal Company, Swissvale, Pa. Compensating device for railway-signals, &c.	607,800	July 19	2343	494	84	489
Jones, Joseph R., assignor of one-half to L. A. Baldwin, Cornwall, Vt. Grist-mill	616,469	Dec. 27	2344	544 545	85	1924
Jones, Joseph W., assignor to himself and J. A. Vincent, Philadelphia, Pa. Sound-recording and reproducing instrument	600,315	Mar. 8	1278	291 292	82	1483
Jones, Joseph W., assignor to himself and J. A. Vincent, Philadelphia, Pa. Gramophone-needle	602,453	Apr. 19	1497	341	83	314
Jones, Joseph W., assignor to himself and J. A. Vincent, Philadelphia, Pa. Sound-reproducing machine	604,829	May 31	2929	670	83	1252
Jones, Joseph W., assignor to himself and J. A. Vincent, Philadelphia, Pa. Sound-reproducing machine	605,484	June 14	786	180 181	83	1524
Jones, Joshua W., Harrisburg, Pa. Change-carrier	601,259	Mar. 29	2910	663	82	1853
Jones & Laughlins. (See Nurick, Alexander, assignor.)						
Jones, Luzerne, Denver, Colo. Hand rock-drill	607,412	July 12	1453	308 309	84	296
Jones, Lyman R., assignor to S. Jackson and W. Potter, Jr., trustees, Boston, Mass. Electrical device for propelling boats	600,874	Mar. 22	2252	513	82	1701
Jones, M. H. (See Rice, Frank H., assignor.)						
Jones, Milton L. (See Allen and Jones.)						
Jones, Milton L., Troy, assignor of one-half to R. N. Page, Biscoe, N. C. Rotary steam-engine	609,028	Aug. 16	1602	381 382	84	997
Jones, Nathaniel M. (See MacCall, Charles R., assignor.)						
Jones, Orville D., <i>et al.</i> (See Powell, Noah M., assignor.)						
Jones, Oscar J., Alexandria, Ohio. Bolt for thill-couplings	612,731	Oct. 18	2021	479	85	411
Jones, Oscar J., and M. B. Kerr, Winfield, Kans. Hat-fastener	601,657	Apr. 5	61	12	83	13
Jones, Otis T., Kingsville, Ohio. Steam shoveling, dredging, and excavating machinery	600,583	Mar. 15	1768	403 404	82	1595
Jones, Paul, Cincinnati, Ohio. Car-fender	597,216	Jan. 11	1318	307 308	82	272
Jones, Pembroke. (See Schule, Friedrich H., assignor.)						
Jones, Richard O. (See Lloyd and Jones.)						
Jones, Richard T., Baltimore, Md. Foot-support	613,904	Nov. 8	1207	276	85	867
Jones, Robert O., assignor to himself, R. G. and W. S. Gregson-Ellis, Ruthin, England. Fitting for aerated-water siphons.	609,392	Aug. 16	284	540	84	1129
Jones, Rollin R., East Bethlehem, Pa. Plow-cultivator	609,886	Aug. 30	3172	742	84	1332
Jones, Samuel H., Newark, N. J. Tide-motor	616,467	Dec. 27	2330	543	85	1921
Jones, Samuel H., Newark, N. J. Wave-motor	616,468	Dec. 27	2337	544	85	1923
Jones, Samuel P., <i>et al.</i> (See Ogden, Otto G., assignor.)						
Jones, Seneca. (See Stone, John H., assignor.)						
Jones, Sidney B., Brighton, Ill. Churn	598,996	Feb. 15	1585	376	82	988
Jones, Silas A. (See Hoffman, William M., assignor.)						
Jones & Son, J. (See Lowe, Ernest A., assignor.)						
Jones, Sylvester B., Ashville, N. Y. Double-acting lift and force pump for Artesian wells	614,172	Nov. 15	1654	380	85	975
Jones, Sylvester H., assignor to Hoosier Drill Company, Richmond, Ind. Rake-head	611,127	Sept. 20	1777	407	84	1819
Jones, Sylvester H., and J. A. Carr, assignors to Hoosier Drill Company, Richmond, Ind. Grain-drill	611,912	Oct. 4	552	135	85	110
Jones, T. F. (See Ritchie, Robert L., assignor.)						
Jones, T. J. (See Barber, Jesse, assignor.)						
Jones, Theodore E., Cheyenne, Wyo. Brush for cleaning cuspidors	614,305	Nov. 15	1908	440	85	1022
Jones, Thomas E., Cincinnati, Ohio. Pumping apparatus	615,992	Dec. 13	1409	329	85	1700
Jones, Thomas M., Portland, Oreg., assignor of three-fourths to M. Friedlich, Bowling Green, Ohio. Step-ladder	596,779	Jan. 4	574	132	82	111
Jones, Thomas R., Sacramento, Cal. Pneumatic dredger	609,350	Aug. 16	2209	523	84	1115
Jones, Tilford J., Mandeville, Mo. Neck-yoke	613,374	Nov. 1	280	64	85	671
Jones, Townsend E., New Haven, Conn. Button-fastener	613,373	Nov. 1	279	64	85	671
Jones, Van G. (See Reynolds and Jones.)						
Jones, Walter G., New York, N. Y. Shoring	613,517	Nov. 1	550	124 125	85	720
Jones, Walter G., Manchester, N. H., assignor to Hunter Arms Company, Fulton, N. Y. Bicycle-handle-bar clamp	614,004	Nov. 8	1370	312	85	899
Jones, Walter M., Santa Monica, Cal. Repair-kit for single-tube bicycle-tires	607,379	July 12	1398	298	84	287
Jones, Whitfield E., Brooklyn, N. Y. Bicycle support and lock	604,050	May 17	1502	337	83	942
Jones, William E., assignor of one-third to J. A. Michaud, St. Louis, Mo. Hose-coupling	615,279	Dec. 6	110	29	85	1434
Jones, William H., Liberty, Ind. Wire-coiling machine	600,790	Mar. 15	2107	482	82	1660
Jones, William H., Liberty, assignor to A. L. and D. M. Kitselman, Ridgeville, Ind. Wire-stretcher	607,750	July 19	2227	471	84	467
Jones, William H. and B. H., Wolverhampton, England. Gear-case for cycles	613,152	Oct. 25	2740	646	85	572
Jones, William H. P., Highland, Cal. Prospecting-wheel	616,335	Dec. 20	2079	484 485	85	1850



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Jones, William M. C. (See Wiehl, Joseph H., assignor.)	603,853	May 10	1119	252	83	834
Jones, William O., Marcy, N. Y. Spoke-socket	611,326	Sept. 27	2165	500	84	1911
Jones, William T., Cedar Rapids, Iowa. Hay-press feeding-fork						
Jonkhoff, Jan A., Dresden, assignor to A. Grunert, New Gruna, Germany. Stringed instrument	604,761	May 31	2825	645	83	1232
Jönköpings Tändsticks-Fabriks Aktiebolag. (See Lagerman, Alexander, assignor.)						
Jonson, Julius, assignor to R. Jonson, New York, N. Y. Machine for cutting corks	601,892	Apr. 5	516	107	83	97
Jonson, Rose. (See Jonson, Julius, assignor.)						
Jonte, Peter N., Cincinnati, Ohio. Hoisting and conveying apparatus for excavating, &c.	608,405	Aug. 2	427	94, 95	84	741
Jordan, A. B. (See Weltner, Rora C., assignor.)						
Jordan, Alfred, London, England. Crusher	604,762	May 31	2826	646	83	1232
Jordan, Dennis, assignor to M. L. McNamara, San Francisco, Cal. Building submerged stone and concrete structures, &c.	604,235	May 17	1845	413	83	1008
Jordan, Dennis, and J. W. Duncan, San Francisco, Cal. Construction of levees, &c.	600,832	Mar. 15	2178	496	82	1673
Jordan, George B., <i>et al.</i> (See Ansley, George W., assignor.)						
Jordan, George E. (See Edmunds, John, assignor.)						
Jordan, James G., Des Moines, Iowa. Earth-auger	600,875	Mar. 22	2254	514	82	1701
Jordan, Mary A. (See Hannon and Jordan.)						
Jordan, Oliver S., Newark, N. J., and E. F. Baum, Harrisburg, Pa., assignors of one-half to H. D. Fuller, New York, and D. Hyman, Rochester, N. Y. Envelop-sealing machine.	607,174	July 12	1011	220	84	212
Jordan, Thomas R. (See James and Jordan.)						
Jordan, Thomas R., assignor to Anglo-American Reduction Company, New York, N. Y. Ore-drier	613,518	Nov. 1	552	125	85	720
Jordan, Thomas R., assignor to Anglo-American Reduction Company, New York, N. Y. Apparatus for treating auriferous or other ores	613,767	Nov. 8	974	223	85	822
Jordan, Thomas T., Wilcox, Nebr. Wagon-wheel	597,647	Jan. 18	2045	478	82	433
Jordan, Wallace, assignor of one-half to S. E. Lindfield, Emerald, Wis. Board-clamp	607,567	July 19	1918	397	84	408
Jordan, William B. M. (See Bogart, Adrian L., assignor.)						
Jordan, William H., Brooklyn, N. Y. Device for turning off commutators of dynamos or motors	603,061	Apr. 26	2539	577	83	526
Jordan, William H., Brooklyn, N. Y. Signal for electric railways	604,866	May 31	2999	689	83	1265
Jorgensen, Joseph M. (See Christensen and Jorgensen.)						
Jorgenson, Lars, Brownsdale, Minn. Detachable calk	601,260	Mar. 29	2911	663	82	1853
Jose, Alfred J., Philipsburg, Mont. Non-refillable bottle and seal	604,328	May 17	2026	454	83	1043
Joseph, S. L. (See Love, John A., assignor.)						
Joseph, Sheldon, Pataskala, Ohio. Fire-extinguisher	609,584	Aug. 23	2636	617	84	1213
Joseph Turner & Company. (See Schidrowitz and Rosenheim, assignors.)						
Josephs, Adolf, Scranton, assignor of two-fifths to M. Rosenbluth, Wilkes-Barré, Pa. Ironing-table	612,905	Oct. 25	2356	561	85	494
Joslin, Omar T., New York, N. Y., and H. B. Schmidt, Cincinnati, assignors of one-half to Black & Clawson Company, Hamilton, Ohio. Machine for thickening liquids	603,085	Apr. 26	2596	590	83	536
Joslin, Omar T., New York, N. Y., and H. B. Schmidt, Cincinnati, assignors of one-half to Black & Clawson Company, Hamilton, Ohio. Machine for thickening liquids	603,086	Apr. 26	2597	590	83	536
Joslin, Omar T., New York, N. Y., and H. B. Schmidt, Cincinnati, assignors of one-half to Black & Clawson Company, Hamilton, Ohio. Machine for thickening liquids	603,087	Apr. 26	2598	590	83	536
Journeay, James, New Hope, Cal. Combination stretcher, neck-yoke, and singletree	614,957	Nov. 29	3135	719	85	1286
Joveite Manufacturing Company. (See Blomén, Jonas E., assignor.)						
Joy, Adin P., New Market, N. H. Wrench	598,819	Feb. 1	442	105 106	82	685
Joy, Arthur W., Bangor, Me. Nozzle	598,873	Feb. 8	1360	328	82	878
Joy, Edward E., Dexter, Kans. Car-coupling	603,062	Apr. 26	2541	577	83	526
Joy, John M., assignor to Printing Telegraph News Company, New York, N. Y. Combined transmitter and receiver	604,533	May 24	2415	549 550 551	83	1134
Joy, Robert, Oswego, N. Y. Steam-boiler	610,681	Sept. 13	971	224 225	84	1645
Joy, Sam S., New Market, N. H. Horse-hitching device	609,548	Aug. 23	2566	601	84	1201
Joyce-Cridland Company. (See Brooks, Frank C., assignor.)						
Joyce, Horace W. (See Myer and Joyce.)						
Joyce, James A., Cleveland, Ohio. Coal or ore bucket	603,143	Apr. 26	2697	612	83	558
Joyce, John. (See Deuther, James A., assignor.)						
Joyce, John. (See Muslar, Nelson, assignor.)						
Joyce, John H., Baltimore, Md. Wagon-body	613,448	Nov. 1	426	97, 98	85	698
Joyner, Isaac, Anderson, Ind. Mop-wringer	609,351	Aug. 16	2211	523	81	1115
Judd, Carl K., Bushong, Kans. Forceps	602,946	Apr. 26	2361	538	83	494
Judd, Charles B., Detroit, Mich. Mechanical movement	604,010	May 10	1429	320	83	898
Judd, Mortimer N., and A. McManus, New Britain, Conn. Back-band buckle	597,501	Jan. 18	1813	420	82	386
Judd, Samuel N., Luray, Va. Cut-off for cisterns	612,165	Oct. 11	1019	245	85	209
Judge, Charles R., St. Louis, Mo. Marker's record for laundrymen, &c.	598,520	Feb. 8	780	187	82	767
Judge, John S., Peterborough, Canada. Window-shade	604,329	May 17	2027	454	83	1043
Judge, Joseph H., assignor to J. W. Suetterle, Milwaukee, Wis. Automatic distributing-nozzle	599,846	Mar. 1	322	72	82	1273
Judson, Charles W., assignor to Eagle Lock Company, Terryville, Conn. Mirror-hinge	608,459	Aug. 2	517	116	84	758
Judson, George W., <i>et al.</i> (See Crane, Uzal O., assignor.)						
Juhel, Jean B. A., Neuilly, France. Back-pedaling brake	611,966	Oct. 4	639	156	85	125
Julian, Henry F., Teignmouth, England. Wheel for vehicles	604,154	May 17	1699	383	83	980
Julian, Henry F., Teignmouth, England. Wheel for vehicles	604,155	May 17	1701	383	83	981
Julien, Jules, Brussels, Belgium. Making soluble metal electrodes for accumulators	600,693	Mar. 15	1954	-----	82	1630
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye	609,352	Aug. 16	2212	-----	84	1115
Jump, Walter H., Audubon, Iowa. End-gate	602,853	Apr. 26	2194	498	83	461
Jungbluth, Johann, Cologne, Germany. Apparatus for constructing insulating-blocks	614,725	Nov. 22	2692	613	85	1182
Junghans, Arthur, and C. A. Hirth, Schramberg, Germany. Alarm-clock	608,867	Aug. 9	1279	298 299	84	922
Jungkurth, Samuel B., Philadelphia, Pa. Automatic damper for registers	596,709	Jan. 4	452	102	82	88
Junkins, Leander D., Somerville, Mass. Pneumatic tire	603,605	May 3	659	147	83	730
Junkins, Leander D., assignor of one-half to A. F. Munro, Boston, Mass. Wheel-rim	602,020	Apr. 5	745	160	83	141
Junod, Paul, assignor of one-half to G. Austin, Celina, Ohio. Trolling-spoon	613,519	Nov. 1	553	125	85	720
Jurschina, Franz, Vienna, Austria-Hungary. Filtering material and making same	597,678	Jan. 18	2103	492	82	442
Justen, Lawrence J., Fond du Lac, Wis. Toy bank	612,732	Oct. 18	2022	480	85	411
Justeson, Henry F. S. (See Nelson and Justeson.)						
Justice, Alfred R. (See Doolittle, Elbridge C., assignor)						
Justice, Bernard W., and W. A. Johnston, Narrows, Va. Vehicle-axle	598,786	Feb. 8	1223	296	82	851
Justice Leather Measuring Machine Company. (See Ayer, Albert E., assignor.)						
K. Karlander's Natmaskinsaktiebolag. (See Karlander, Karl V., assignor.)						
Kaczander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricating apparatus for locomotive-engines	615,993	Dec. 13	1410	330	85	1700



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Kaczander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Boiler-tester.....	616,539	Dec. 27	2473	573	85	1948
Kaeding, Albert, Halberstadt, Germany. Apparatus for changing bed-sheets for sick-beds.....	614,870	Nov. 29	2958	679	85	1249
Kaemmerling, Herman, Girard, Kans. Furnace for smelting ore.....	610,540	Sept. 13	743	169	84	1598
Kaemmerling, William J. (See Hart, John W., assignor.)						
Kaestner, Charles, assignor to C. Kaestner & Co., Chicago, Ill. Barrel-cleaner.....	601,658	Apr. 5	63	12	83	13
Kaestner, Charles, assignor to C. Kaestner & Co., Chicago, Ill. Barrel-washer.....	605,879	June 21	1541	354 355	83	1683
Kaestner, Charles, assignor to C. Kaestner & Co., Chicago, Ill. Machine for pitching barrels.....	616,847	Dec. 27	3033	705 706	85	2058
Kaestner & Co., Charles. (See Kaestner, Charles, assignor.)						
Kafader, Charles D. (See Kafader, James O. and C. D.)						
Kafader, James O. and C. D., Fort Bidwell, Cal. Nut-lock.....	608,607	Aug. 9	785	180	84	830
Kaganovsky, Harry, Biddeford, Me. Folding horse.....	598,100	Feb. 1	55	13	82	613
Kahl, Otto D. (See Humphrey and Kahl.)						
Kahle, George L., Council Bluffs, Iowa, assignor to F. W. Whitcher, Boston, Mass. Bi-cycle-support for railway-cars.....	603,509	May 3	497	109	83	697
Kahlenberg, Ernst L. K. F., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Starting resistance for alternating-current motors.....	614,394	Nov. 15	2084	480	85	1056
Kahlert, William, Washington, D. C. Composition for sizing walls.....	615,714	Dec. 13	907		85	1604
Kahn, Abraham, Frankfort-on-the-Main, assignor of one-half to Heilbronner Copier-bucher Fabrik C. Holzwarth, Heilbronn, Germany. Letter-press book.....	603,729	May 10	878	195	83	788
Kahn, Felix, New York, N. Y. Heat-retainer.....	608,684	Aug. 9	929	213	84	859
Kahn, Maximilian. (See Esmond, William V., assignor.)						
Kahn, Myrtil, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, New York, N. Y. Violet dye.....	602,540	Apr. 19	1641		83	341
Kahn, Myrtil, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, New York, N. Y. Violet azo dye.....	603,008	Apr. 26	2461		83	512
Kahn, Myrtil, and F. Runkel, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Bluish-red dye.....	603,009	Apr. 26	2462		83	512
Kahn, Myrtil, and K. Heidenreich, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, of New York. Black disazo dye and making same.....	605,103	June 7	64		83	1364
Kail, Wilbert S., Scio, Ohio. Syringe.....	609,353	Aug. 16	2213	523	84	1115
Kailor, John N. (See Reeves and Kailor.)						
Kailor, John N. (See Reeves, Kailor, and Clay.)						
Kaiser, George G., Johnson, Wash. Farm-gate.....	612,565	Oct. 18	1717	407	85	353
Kaiser, John, Seneca Falls, N. Y. Hydrant.....	601,378	Mar. 29	3129	706	82	1895
Kaiser, Marguerite, St. Louis, Mo. Kitchen-rack.....	601,753	Apr. 5	253	50	83	48
Kalamakowski, Stanislaw, New York, N. Y. Fireproof calcimine.....	603,693	May 10	822		83	777
Kalischer, Georg, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Black dye and making same.....	610,541	Sept. 13	746		84	1598
Kalker Werkzeugmaschinen-Fabrik, L. W. Breuer, Schumacher & Co. (See Rothe, Moritz, assignor.)						
Kalle & Co. (See Alt and Culmann, assignors.)						
Kalle & Co. (See Elbel and Rosenberg, assignors.)						
Kalle & Co. (See Reinhardt, Heinrich, assignor.)						
Kalle & Co. (See Rosenberg, Ignaz, assignor.)						
Kalle & Co. (See Rosenberg and Elbel, assignors.)						
Kalle & Co. (See Rosenberg and Helmert, assignors.)						
Kalle & Co. (See Rosenberg and Krecke, assignors.)						
Kamerer, George B., West Newton, Pa. Valve or faucet.....	613,041	Oct. 25	2564	609	85	536
Kanally, Morris E., Somerville, Mass. Seal-lock.....	606,418	June 28	2589	597	83	1902
Kandle, Furman M., Philadelphia, Pa. Drawer attachment.....	608,130	July 26	2950	633	84	628
Kandó, Koloman de. (See Bláthy and Kandó.)						
Kane, John P., Dawson, Pa. Leveling-tool.....	598,101	Feb. 1	55	13	82	613
Kane, Maurice, Austin, Ill. Harvester-elevator.....	598,377	Feb. 1	525	128	82	701
Kane, Maurice, Austin, Ill. Mower.....	601,261	Mar. 29	2912	663	82	1853
Kane, Thomas H., Shreveport, La. Pipe and flue cleaner.....	606,013	June 21	1808	417	83	1731
Kane, William, Philadelphia, Pa. Automatic flue-opening device.....	609,278	Aug. 16	2089	495	84	1091
Kanne, Frederick F., Waterville, Minn. Elevator or conveyor.....	599,101	Feb. 15	1752	416	82	971
Kanski, Roman T., New York, and E. S. Freeman, New Rochelle, N. Y. Incubator.....	602,017	Apr. 5	740	159	83	140
Kantz, W. A. (See Burke, Stephen E., assignor.)						
Kappler, Carl R., Gochsheim, and F. Schunk, Schweinfurt, Germany. Machine for grinding cast-steel balls.....	610,059	Aug. 30	3480	807	84	1392
Kapp, Gisbert, Berlin, Germany, assignor to H. C. Townsend, trustee, New York, N. Y. Electric meter.....	597,985	Jan. 25	2639	616 617	82	562
Karges, Julius J., Kansas City, Mo. Label or stamp affixing machine.....	597,720	Jan. 25	2175	509	82	473
Karges, Julius J., Kansas City, Mo. Moistening device.....	603,768	May 10	947	211	83	801
Karlander, Karl V., Stockholm, Sweden, assignor to K. Karlander's Natmaskinsaktiebolag. Machine for making nets.....	597,909	Jan. 25	2502	584 585 586	82	535
Karner, Joseph C., Mexia, Tex. Combination-tool.....	604,830	May 31	2931	670	83	1252
Karns, William E., Parker's Landing, Pa. Forming-die.....	609,029	Aug. 16	1604	382	84	998
Karr, Burton A., L. Koenig, and L. A. Woods, Omaha, Nebr. Mechanical railway-signal.....	599,656	Feb. 22	2808	652	82	1195
Karr, George L., Brooklyn, N. Y. Combined insect-trap and vase.....	598,521	Feb. 8	782	187	82	768
Karraker, Calvin, Dongola, Ill. Grader and scraper.....	609,679	Aug. 23	2826	660	84	1251
Karrer, Frank H., Roslyn, Wash. Chair.....	604,156	May 17	1703	383	83	981
Karsner, Adam E., Chillicothe, Mo. Lock.....	601,442	Mar. 29	3246	732	82	1917
Karsner, Adam E., Chillicothe, Mo., assignor to D. N. Macdonald, Chicago, Ill. Lid-holder and kettle-drainer.....	612,422	Oct. 18	1467	354	85	306
Karst, Bernard W., assignor of one-half to G. E. Miller, Harlansburg, Ind. Match box or safe.....	602,333	Apr. 12	1288	285	83	260
Karyscheff, Alexander, St. Petersburg, Russia. Method of and apparatus for reducing oxid of iron.....	608,779	Aug. 9	1082	249 250 321 322	84	887
Kaselowsky, Emil, Berlin, Germany. Automatic steering device for torpedoes.....	607,440	July 19	1510		84	325
Kaslinke, John. (See King and Kaslinke.)						
Kasperek, Frank. (See Friske and Kasperek.)						
Kassmayer, Morris, assignor of one-half to J. Dohnal and S. Cohn, New York, N. Y. Folding top for vehicles.....	600,724	Mar. 15	2005	456	82	1640
Kassner, Georg, Münster, Germany. Separating sugars from molasses.....	611,381	Sept. 27	2283		84	1932
Kastle, Joseph H., M. L. Ravitch, and A. S. Lowenhart, Lexington, Ky. Vaporizer.....	608,967	Aug. 9	1463	346	84	957
Katz, Adolf, Stuttgart, Germany. Apparatus for forming artificial stone.....	599,786	Mar. 1	192	48	82	1252
Katzenberger, Fredrick. (See Loeble and Katzenberger.)						
Katzenstein, Gustav, Berlin, Germany. Wool-washing machine.....	611,432	Sept. 27	2333	547	84	1950



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Katzenstein, Gustav, Berlin, Germany. Filter	611,488	Sept. 27	2481	572	84	1969
Katzenstein, Gustav, Berlin, Germany. Decanting apparatus for filters	611,489	Sept. 27	2483	572	84	1969
Kauffman, Milton H., Chicago, Ill. Acetylene-gas generator	612,648	Oct. 18	1879	445	85	384
Kauffman, Orrin F. (See Kauffman, Conkell, and Kauffman.)						
Kauffman, William J., E. W. Conkell, and O. F. Kauffman, Canton, Ohio. Trolley-wire system	600,202	Mar. 8	1094	249	82	1448
Kauffmann, Nickolas, Dubuque, Iowa. Catch-basket for lawn-mowers	607,380	July 12	1400	298	84	287
Kaufholz, John N., Cleveland, Ohio. Brick-machine	607,856	July 26	2472	299	84	532
Kaufman, Morris. (See Berkovitz, Charles, assignor.)						
Kaufmann, Charles S., assignor to American Battery Company, Chicago, Ill. Storage battery	601,471	Mar. 29	3292	744	82	1926
Kaufmann, Julius. (See Bernhardt, Charles, assignor.)						
Kaufmann, Sophie, Jeannette, Pa. Cooking utensil	608,868	Aug. 9	1280	299	84	922
Kaulhausen, Wilhelm, Aachen, Germany. Machine for scarf-jointing leather	609,549	Aug. 23	2567	601	84	1201
Kautz, George, Albany, N. Y. Dumping-wagon	601,659	Apr. 5	64	12	83	18
Kautz, Joseph, Detroit, Mich. Boat	603,469	May 3	404	90	83	679
Kavanaugh, George H., Middletown, Conn. Flexible broom-handle	603,694	May 10	822	181	83	777
Kay, James H. (See Hall and Kay.)						
Kay, John F., Passaic, and D. Hutchinson, Bound Brook, N. J., assignors to Diamond Match Company, Chicago, Ill. Machine for cutting and assembling match-splints	601,893	Apr. 5	520	107	83	97
Kay, Joseph W. (See Lambert, Frank, assignor.)						
Kay, William, and J. C. Adams, Jonesborough, Ind. Reheating and finishing machine for glass articles	608,427	Aug. 2	468	105	84	748
Kaye, Joseph, London, England. Sliding-door lock	600,584	Mar. 15	1771	106	82	1595
Kaylor, Jacob F. (See Kaylor, John and J. F.)						
Kaylor, John, Decatur, and J. F. Kaylor, Pekin, Ill. Bicycle-brake	607,857	July 26	2478	404	82	1595
Kayser, Julius. (See Lindner, Arthur E., assignor.)						
Keany, James B. (See Thurell, John, assignor.)						
Kearney & Foot Company. (See Turner, James, assignor.)						
Kearns, William F., Boston, Mass. Partition-frame	603,402	May 3	272	61	83	652
Keaster, Daniel K., Lancaster, Iowa. Gate	597,721	Jan. 25	2178	509	82	474
Keating, John D. (See Clapp, Frank L., assignor.)						
Keating, Robert M., Springfield, Mass. Wheel	607,175	July 12	1012	220	84	213
Keating, Robert M., Springfield, Mass. Adjustable handle-bar	607,543	July 19	1871	389	84	401
Keator, Charles E., Brooklyn, assignor of one-half to Dunlap & Company, Brooklyn and New York, N. Y. Machine for sizing hat-bodies	603,906	May 10	1210	274	83	851
Keavy, Thomas E., Philadelphia, Pa. Buffer for shoe or other buffing machines	610,758	Sept. 13	1108	253	84	1672
Keavy, Thomas E., Philadelphia, Pa. Buffing-machine	610,759	Sept. 13	1110	253	84	1673
Keavy, Thomas E., Philadelphia, Pa. Roll of abrading material	610,761	Sept. 13	1114	254	84	1673
Keavy, Thomas E., Philadelphia, Pa. Buffing-pad	610,762	Sept. 13	1115	254	84	1674
Keavy, Thomas E., assignor to Standard Buffing Machine Company, Limited, Philadelphia, Pa. Buffer for shoe or other buffing machines	610,760	Sept. 13	1112	254	84	1673
Kécheur, Adolphe. (See Dalla-Décimas, Kécheur, and Chagnaud.)						
Keck, Lewis C., Washta, Iowa. Traction-wheel	597,774	Jan. 25	2268	530	82	491
Keck, Philip. (See Miner, James W., assignor.)						
Keeble, Arthur J. (See Moulton and Keeble.)						
Keech, Samuel H., assignor of one-half to C. E. Jaquish, Kansas City, Kans. Safety-door for elevator-shafts	615,222	Nov. 29	3662	839	85	1386
Keefe, James E., Chicago, Ill. Dental disk-mandrel	604,355	May 17	2083	467	83	1054
Keeler, Charles S., Van Buren, assignor of two-thirds to J. Healy and D. Liddle, Bairdstown, Ohio. Self-adjusting stuffing-box	612,003	Oct. 4	715	172	85	140
Keeler, Henry C., Waterville, Wash. Current-motor	608,131	July 26	2951	633	84	628
Keeler, Walter E., assignor to E. H. Stone and J. B. Forsyth, Boston, Mass. Folding box	614,005	Nov. 8	1371	634	85	900
Keeling, Henry. (See Lloyd and Keeling.)						
Keeling, Henry H. (See Baginski, Ferdinand, assignor.)						
Keen, Marshal G. and P. P., Keensburg, Ill. Grain-reel for reaping-machines	606,346	June 28	2447	567	83	1875
Keen, Peter P. (See Keen, Marshal G. and P. P.)						
Keenan, Nellie T., et al. (See Fennan, William T., assignor.)						
Keenan, Thomas, Allegheny, Pa. Core-bar	614,958	Nov. 29	3136	719	85	1286
Keenan, William J. (See Perrin, Summerfield M., assignor.)						
Keenan, William P., Columbus, Ohio. Vent-plug	604,399	May 24	2157	484	83	1088
Keene, George A., Saugus, Mass. Combined measure and funnel	606,927	July 5	516	113	84	102
Keene, George C., Cincinnati, Ohio. Lock-fold attachment for cornice-brakes	601,303	Mar. 29	3013	679	82	1873
Keene, Joseph, Chicago, Ill. Spring-hinge	609,585	Aug. 23	2638	617	84	1214
Keeney, Mayro, Somersville, Conn. Tower-windmill	614,812	Nov. 22	2835	653	85	1211
Keep, William J., assignor to Michigan Stove Company, Detroit, Mich. Stove	612,004	Oct. 4	716	172	85	140
Keep, William J., and W. V. Robinson, assignors to Michigan Stove Company, Detroit, Mich. Stove-damper	600,080	Mar. 1	824	190	82	1375
Keepers, William M., et al. (See Murphy, John M., assignor.)						
Kees, Harvey, Iowa Falls, Iowa. Wire-fence stay and lock	611,913	Oct. 4	554	135	85	110
Keesee, Frank P., assignor of one-half to Taylor, Scott & Co., Toronto, Canada. Carpet-sweeper	598,602	Feb. 8	914	219	82	794
Keesee, Frank P., Toronto, assignor of one-half to D. H. McDermid, London, Canada. Vending-machine	610,542	Sept. 13	747	170	84	1598
Kehm, Frank A. and P. H., Mason City, Iowa. Thill-coupling	601,796	Apr. 5	332	67	83	63
Kehm, Phillip H. (See Kehm, Frank A. and P. H.)						
Keifel, Frederick W., Jr., Louisville, Ky., and J. Zipp, New Albany, Ind., assignors to E. Scanlan, Louisville, Ky. Damper for grates	599,335	Feb. 22	2173	516	82	1070
Keighley, William B., Vineland, N. J. Shoe-buffer	604,051	May 17	1503	338	83	943
Keil, Francis and H. F., New York, N. Y. Combined door hinge and check	607,858	July 26	2479	526	84	533
Keil, Francis and H. F., New York, N. Y. Combined hinge and door-check	608,334	Aug. 2	307	68	84	717
Keil, Friedrich, Arnstadt, Germany. Lasting-machine	601,148	Mar. 22	2696	619	82	1785
Keil, Henry F. (See Keil, Francis and H. F.)						
Keil, John. (See Arnold and Keil.)						
Keilholtz, Richard W., Toledo, Ohio. Expanding tap	614,395	Nov. 15	2086	480	85	1056
Keimer, Ferdinand A., Brooklyn, N. Y. Stopper for bottles	600,725	Mar. 15	2007	457	82	1641
Keiper, Henry B., Lancaster, Pa. Gearing	604,534	May 24	2418	550	83	1134
Keiper, Henry B., Lancaster, Pa. Gearing	604,662	May 24	2633	603	83	1177
Keiper, Henry B., Lancaster, Pa. Gearing	605,722	June 14	1211	280	83	1603
Keiper, Henry B., assignor of one-half to J. Hertzer, Lancaster, Pa. Ball-retainer for antifriction-bearings	604,678	May 24	2664	610	83	1183



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Keiser, Milton D., Prairie City, Iowa. Acetylene-gas generator	615,558	Dec. 6	639	146	85	1536
Keiter, Franklin, T. L. (See Hartman, Andrew J., assignor.)						
Keith, Alexander, and J. H. Byrne, Toronto, Canada. Acetylene-gas generator	608,460	Aug. 2	518	116	84	758
Keith, Alexander E., J. and C. J. Erickson, Chicago, Ill., assignors to Strowger Automatic Telephone Exchange, of Illinois. Calling device for telephone-exchanges	597,062	Jan. 11	1060	249	82	223
Keith, Charles D., Cherokee, Ark. Corn-planter	609,354	Aug. 16	2214	523	84	1115
Keith, Darius S. (See O'Brien and Keith.)						
Keith, Jacob C., Ellwood City, Pa. Post-office-box cabinet	606,556	June 28	2831	652	83	1951
Keith, James, London, England. Radiator	599,611	Feb. 22	2713	634	82	1175
Keith, Jeremiah, assignor to Simmons & Paye, Providence, R. I. Bicycle-bell	604,356	May 17	2085	467	83	1055
Keith, Jesse M., Murray, Iowa. Fence	613,449	Nov. 1	427	98	85	698
Keith, Myron L., Brockton, Mass. Machine for reinforcing inner soles	609,103	Aug. 16	1763	420	84	1025
Keith, Myron L., Brockton, Mass. Lip-turning machine	610,326	Sept. 6	356	76	84	1509
Keith, Nathaniel S., Chester, England. Obtaining gold and silver from auriferous and argentiferous materials	597,820	Jan. 25	2354	551	82	507
Keithley, Herbert R., New York, N. Y. Rail-joint	601,262	Mar. 29	2914	663	82	1854
Keithley, Herbert R., New York, N. Y. Combined rail joint and bond	601,263	Mar. 29	2916	664	82	1854
Keithly, Willie C., San Francisco, Cal. Insulator and hanger for electric railways	612,929	Oct. 25	2392	570	85	502
Kelch, Wallace M. (See Kelly and Kelch.)						
Keller, Alfred, Leipsic, Germany. Mechanical musical instrument	599,710	Mar. 1	62	14	82	1228
Keller, David K., Montgomery, Ohio. Pipe-coupling	609,030	Aug. 16	1606	382	84	998
Keller, Frank F., Toledo, Ohio. Clothes-wringer	599,787	Mar. 1	194	48	82	1252
Keller, Henry, assignor of one-half to W. B. Flickinger, Erie, Pa. Machine for setting up, drilling, and pinning bicycle-frames	602,623	Apr. 19	1785	407	83	367
Keller, Henry, assignor of one-half to A. A. Meyer, New York, N. Y. Gas-generator	611,490	Sept. 27	2485	573	84	1970
Keller, John, Philadelphia, Pa. Car-fender	601,968	Apr. 5	671	142	83	127
Keller, Julius. (See Briegel, Johan G., assignor.)						
Keller, Julius, Philadelphia, Pa. Engine	603,788	May 10	984	220	83	808
Keller, Julius, and C. H. Haeseler, Philadelphia, Pa. Engine	607,859	July 26	2481	526	84	533
Keller, Louis B., Minneapolis, Minn. Portable stove-hood	603,730	May 10	879	527	83	788
Keller, Sidney A. (See Campi, Luigi F., assignor.)						
Keller, Thomas H., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	606,168	June 21	2097	195	83	1786
Kellerman, Charles H., assignor to Chicago Brass Company, Kenosha, Wis. Riveted metal article	599,903	Mar. 1	438	97	82	1296
Kellerman, Ellsworth D., Montesano, Wash. Attachment for hose-nozzles	597,648	Jan. 18	2047	478	82	433
Kellerman, Ellsworth D., Montesano, Wash. Match-box	613,575	Nov. 1	640	148	85	737
Kellerman, Ellsworth D., and B. C. Crane, assignors of one-half to E. C. Story, Montesano, and W. I. Agnew, Olympia, Wash. Fire-hose nozzle	603,144	Apr. 26	2698	612	83	558
Kelley, Alexander, assignor of two-thirds to W. B. Clerk, Wilmington, and J. E. Addicks, Claymont, Del. Match-making machine	606,994	July 5	621	135	84	123
Kelley, Benjamin F., Brooklyn, N. Y. Feed-water heater	600,480	Mar. 8	1558	136	82	1535
Kelley Bros. & Spielman. (See Jackson, Calvin, assignor.)						
Kelley, Daniel H. (See Campbell and Kelley.)						
Kelley, Henry J., Carnegie, Pa. Refrigerator for meat-wagons	611,491	Sept. 27	2487	137	84	1970
Kelley, John, Philadelphia, Pa. Spoke-expander and wheel-tightener	606,014	June 21	1809	138	83	1731
Kelley, John C., New York, N. Y. Piston of nutating-piston meters	615,392	Dec. 6	330	574	85	1477
Kelley, John R., Reelfoot, Tenn. Hoe	609,355	Aug. 16	2215	524	84	1116
Kelley, John R., Reelfoot, Tenn. Boiler-feeding apparatus	611,967	Oct. 4	641	157	85	125
Kelley, John W., McDonald, Tenn. Gate	601,078	Mar. 22	2587	590	82	1764
Kelley, Peter, assignor of one-half to J. Franklin, Montreal, Canada. Boot-last	597,882	Jan. 25	2458	574	82	527
Kelley, Wilbur S., Ayr, Neb. Traction-engine tender	611,635	Oct. 4	74	19	85	17
Kelling, Georg E., Dresden, Germany. Bent rotatable gastroscope	598,787	Feb. 8	1225	297	82	852
Kelling, Georg E., Dresden, Germany. Surgical instrument	616,672	Dec. 27	2729	634	85	1995
Kellner, Carl, Vienna, Austria-Hungary. Apparatus for preparing cellulose for manufacturing spun fabrics	603,333	May 3	158	36	83	632
Kellner, Franklin L., and G. S. Barrows, Philadelphia, Pa., assignors to Welsbach Light Company, Gloucester City, N. J. Electrical attachment for gas-lights	603,334	May 3	160	37	83	632
Kellogg, Henry W., et al. (See Worth, William O., assignor.)						
Kellogg, John H., Battle Creek, Mich. Producing alimentary products	604,493	May 24	2348	161	83	1122
Kellogg, John H., Battle Creek, Mich. Inhaler	605,436	June 7	716	161	83	1491
Kellogg, Lucy M., Port Jervis, N. Y. Support and compressor for jelly-bags, &c	600,203	Mar. 8	1096	249	82	1449
Kellogg, Luke L., Leon, N. Y. Hobby-horse	613,375	Nov. 1	281	64	85	672
Kellogg, Marie L. (See Stearns, Theron C., assignor.)						
Kellogg, Milo G., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone circuit and apparatus	605,580	June 14	943	220	83	1555
Kellogg Switchboard and Supply Company. (See Kellogg, Milo G., assignor.)						
Kellogg, Thomas E., assignor of one-third to H. A. Reynolds, Walla Walla, Wash. Thill-coupling	604,494	May 24	2349	533	83	1122
Kellogg, William L. (See Wallace and Kellogg.)						
Kellogg, William P., Troy, N. Y. Trace-carrier	606,347	June 28	2448	567	83	1875
Kellogg, William S., Little Rock, Ark. Bicycle driving-gear	602,162	Apr. 12	1005	220	83	202
Kellom, Charles F., assignor of one-half to K. E. Bennett, Delair, N. J. Measuring-faucet	598,345	Feb. 1	474	113	82	691
Kellum, Seth, Milford, assignor of one-third to A. W. Bascom, Dickinson county, Iowa. Hay-rack loader	609,148	Aug. 16	1834	434	84	1040
Kelly, Bengel J., Corvallis, Oreg. Railway-switch and means for operating same	599,847	Mar. 1	324	73	82	1274
Kelly, Charles, Passaic, N. J., assignor to Read Holliday & Sons, Limited, New York, N. Y. Acetylene-gas generator	608,869	Aug. 9	1282	299	84	922
Kelly, Christopher M., and O. J. Linendoll, assignors to Phoenix Industrial Company, Grand Rapids, Mich. Brush	615,559	Dec. 6	641	146	85	1537
Kelly, Clarence E., and A. J. Haworth, Greentown, Ind. Tool for repairing elastic tubing	616,109	Dec. 20	1636	383	85	1763
Kelly, David. (See Appleby, John F., assignor.)						
Kelly, David L., Buffalo, N. Y. Fork for bicycles	609,937	Aug. 30	3256	761	84	1348
Kelly, Edward, and H. B. Weaver, Port Oram, N. J. Blast-furnace	602,947	Apr. 26	2362	539	83	494
Kelly, Eugene H., Buffalo, N. Y. Sound-deadening wall for buildings	612,733	Oct. 18	2023	480	85	411
Kelly, George, Mineral Point, Wis. Boiler-covering	602,454	Apr. 19	1498	342	83	314
Kelly, George, Mineral Point, Wis. Brake-shoe	610,327	Sept. 6	358	76	84	1509
Kelly, George, assignor of one-half to P. Allen, Mineral Point, Wis. Illuminating-torch	613,819	Nov. 8	1071	243	85	840
Kelly, George J. (See Horspool, Francis L., assignor.)						
Kelly, Henry, Waterloo, Iowa, assignor to himself and O. B. Taneyhill. Grinding-mill	612,776	Oct. 18	2104	499	85	426



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Kelly, John D., Providence, R. I. Foot-rest for chairs .....	611,327	Sept. 27	2165	501	84	1911
Kelly, John F. (See Chesney, Cummings, C., assignor.)						
Kelly, John F., Pittsfield, Mass. Electrostatic measuring instrument .....	608,132	July 26	2953	634	84	628
Kelly, John F., Pittsfield, Mass. Electric safety device .....	615,186	Nov. 29	3551	817 818	85	1365
Kelly, John F., Pittsfield, Mass., assignor to Stanley Electric Manufacturing Company, of Massachusetts. Means for preventing stray magnetism in dynamo-electric machines .....	608,133	July 26	2954	634	84	628
Kelly, John F., assignor of one-half to C. C. Chesney, Pittsfield, Mass. Lightning-arrester .....	608,685	Aug. 9	930	213	84	859
Kelly, John L., <i>et al.</i> (See Roure, Edmond V., assignor.)						
Kelly, John P. (See Guyer, Kelly, and Kissell.)						
Kelly, John T., <i>et al.</i> (See Castle, Lewis D., assignor.)						
Kelly, John T., assignor of one-half to J. M. Collins, Albany, N. Y. Handle for buckets, &c.	614,173	Nov. 15	1656	380	85	976
Kelly, Joseph A. (See Kelly, William J., T. F., P. H., and J. A.)						
Kelly, Joseph N., and W. M. Kelch, Dayton, Ohio. Gas-engine .....	610,682	Sept. 13	973	225 226	84	1646
Kelly, Michael, Buffalo, N. Y. Bicycle-support .....	603,769	May 10	949	212	83	801
Kelly, Michael, Bloomington, Ill. Draft device for locomotives .....	608,870	Aug. 9	1284	300	84	923
Kelly, Oliver S. (See Krotz, Alvaro S., assignor.)						
Kelly, Oliver S. (See Krotz, Allen, and Kelly.)						
Kelly, Peter H. (See Kelly, William J., T. F., P. H., and J. A.)						
Kelly, Robert, Jr. (See Shanks and Kelly.)						
Kelly, Robert W., Atchison, Kans. Letter-box .....	597,420	Jan. 18	1663	386	82	356
Kelly, Thomas F. (See Kelly, William J., T. F., P. H., and J. A.)						
Kelly, Timothy. (See Gardner, Edwin P., assignor.)						
Kelly, William J., Boston, Mass. Electric switch .....	616,110	Dec. 20	1637	383	85	1763
Kelly, William J., Boston, Mass. Arc-light regulator .....	616,111	Dec. 20	1640	383 384	85	1763
Kelly, William J., T. F., P. H., and J. A., Clinton, Iowa. Upholstering apparatus .....	599,239	Feb. 15	1984	471	82	1012
Kelly, William J., T. F., P. H., and J. A., Clinton, Iowa. Upholstering apparatus .....	599,240	Feb. 15	1986	472	82	1012
Kelly, William J., T. F., P. H., and J. A., Clinton, Iowa. Tufting apparatus for upholsterers .....	612,734	Oct. 18	2024	480	85	411
Kelsey, Frank W., New York, N. Y. Holdback for curtains .....	609,965	Aug. 30	3320	772	84	1361
Kelso, Robert, and M. Rosenbaum, Philadelphia, Pa. Flexible metallic sheathing for tubes and ropes .....	606,557	June 28	2832	653	83	1951
Kelso, William, assignor to McConway & Torley Company, Pittsburg, Pa. Uncoupling-lever and lever-lock for car-couplings .....	601,020	Mar. 22	2496	568	82	1746
Kemery, Charles L., Pittsburg, Pa. Electric railway .....	613,418	Nov. 1	377	87	85	687
Kemp, Alice S., New York, N. Y. Window-cleaner .....	613,683	Nov. 8	804	185	85	790
Kemp, Charles E. (See Kemp, Clarence M. and C. E.)						
Kemp, Clarence M., Baltimore, Md. Water-heater .....	608,291	Aug. 2	213	50	84	697
Kemp, Clarence M. and C. E., Baltimore, Md. Pipe-testing machine .....	602,289	Apr. 12	1223	269	83	246
Kemp, Joseph S., Syracuse, N. Y. Manure-spreader .....	616,621	Dec. 27	2612	606	85	1972
Kemp, William A., Toronto, Canada. Pipe-elbow-bending machine .....	606,785	July 5	288	59	84	57
Kemp, William A., Toronto, Canada. Corrugated-pipe-compressing machine .....	606,786	July 5	290	60	84	58
Kemp, William A., Toronto, Canada. Pipe-elbow .....	607,620	July 19	2013	418	84	427
Kempenaar, Jeremiah. (See Bosanko, Alexander, assignor.)						
Kemper, Charles, Brussels, Belgium. Device for opening or closing bottles .....	615,487	Dec. 6	503	116 117	85	1509
Kemper, James P., New Orleans, La. Apparatus for storing and feeding sugar-cane on cane-carriers .....	601,149	Mar. 22	2698	620	82	1786
Kempf, John, assignor of one-half to J. M. Hoffman, Baltimore, Md. Water-indicator for steam-boilers .....	601,617	Mar. 29	3521	803	82	1973
Kempen, Arthur E. (See Griffith, Kempen, and Coppée.)						
Kempshall, Eleazer, Newton, Mass. Pneumatic tire .....	611,594	Sept. 27	2684	620	84	2008
Kempshall, Eleazer, Newton, Mass., assignor to Smooth Point Pen Company, of Maine. Pen .....	598,730	Feb. 8	1142	274	82	836
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Throat for nailing-machines .....	599,078	Feb. 15	1717	408	82	964
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Apparatus for delivering lacing-studs, &c. ....	599,904	Mar. 1	438	97	82	1296
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet .....	600,126	Mar. 1	969	214	82	1407
Kempshall, Eleazer, Newton, assignor to Boston Fast Color Eyelet Company, Boston, Mass. Mold for making lacing-hooks .....	599,905	Mar. 1	440	97	82	1297
Kempshall, Eleazer, Newton, assignor to Boston Fast Color Eyelet Company, Boston, Mass. Lacing-guide .....	599,906	Mar. 1	441	98	82	1297
Kempshall, Eleazer, Sharon, assignor to Boston Fast Color Eyelet Company, Boston, Mass. Eyelet .....	606,061	June 21	1899	437	83	1748
Kempshall, Eleazer, Sharon, assignor to Boston Fast Color Eyelet Company, Boston, Mass. Eyelet .....	612,848	Oct. 25	2261	539	85	475
Kempster, Daniel E., Boston, Mass. Automatic ball-grinding machine .....	611,968	Oct. 4	642	157	85	125
Kendall, Charles B., Boston, Mass., assignor to American Automatic Banjo Company, of New Jersey. Pneumatic action for musical instruments .....	606,219	June 28	2207	506 507	83	1826
Kendall, Charles B., and J. P. Tirrell, Boston, Mass., assignors to American Automatic Banjo Company, of New Jersey. Picker device for stringed musical instruments .....	606,220	June 28	2209	507	83	1827
Kendall, Edmund G., Harborne, assignor to Kendall's Patent Reversible Window Sash Company, Limited, Birmingham, England. Window sash and frame .....	614,554	Nov. 22	2362	541	85	1121
Kendall, Hubert A., Kansas City, Mo. Ice-creeper attachment for horseshoes .....	612,206	Oct. 11	1082	259	85	221
Kendall, John A., and J. B. Kester, Cameron, Mo. Oil can and pump .....	611,828	Sept. 27	2167	501	84	1912
Kendall, John B., Washington, D. C. Ball-bearing .....	596,886	Jan. 4	745	175 176	82	145
Kendall Rubber Tire Company. (See Kendall, Webber G., assignor.)						
Kendall, Webber G., Providence, R. I. Cushion-tire for vehicle-wheels .....	597,612	Jan. 18	1991	464	82	422
Kendall, Webber G., assignor to Kendall Rubber Tire Company, Providence, R. I. Cushion-tire .....	604,663	May 24	2634	603	83	1177
Kendall, Webber G., assignor to Kendall Rubber Tire Company, Providence, R. I. Cushion-tire .....	614,054	Nov. 8	1437	330	85	913
Kendall, Webber G., assignor to Kendall Rubber Tire Company, Providence, R. I. Cushion-tire .....	614,055	Nov. 8	1439	331	85	913
Kendall's Patent Reversible Window Sash Company. (See Kendall, Edmund G., assignor.)						
Kendrick, Arthur B., assignor to J. R. Kendrick, Philadelphia, Pa. Elastic stocking .....	609,031	Aug. 16	1607	383	84	998
Kendrick, James R. (See Kendrick, Arthur B., assignor.)						
Kendrick, Matthew B., Newport, Ky., assignor of one-half to F. B. Rampe, Cincinnati, Ohio. Tie-holding collar .....	611,578	Sept. 27	2649	611	84	2002
Kendrick, Thomas, Glenwood Springs, Colo. Folding car-step .....	608,335	Aug. 2	309	68	84	717



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Kendrick, William M., Duxbury, Mass. Cranberry-picker	600,204	Mar. 8	1097	249	82	1449
Kenevel, Jeannot W., Chicago, Ill. Apparatus for coking and desulfurizing bituminous coal	596,753	Jan. 4	530	121 122	82	102
Kenfield, Stephen B., and C. Elvidge, San Francisco, Cal. Loading appliance	608,142	July 26	2970	637 638	84	681
Kenisell, John E. (See Grimshaw and Kenisell.)						
Kenna, John T., <i>et al.</i> (See De Forest, Charles D., assignor.)						
Kenna, Thomas M., assignor of one-half to J. J. Sullivan, New Haven, Conn. Saw-filing machine	612,423	Oct. 18	1469	355	85	306
Kennard Manufacturing Company. (See Knobloch, Frank, assignor.)						
Kennard, Walter. (See Johnson, Andrew J., assignor.)						
Kennedy, Albert H., Rockport, Ind., assignor to Cleveland School Furniture Company, Cleveland, Ohio. School-desk	601,876	Apr. 5	495	102	83	93
Kennedy, Charles A., Coaticook, Canada. Combined support and luggage-carrier	611,256	Sept. 27	2021	466	84	1884
Kennedy, Charles M. (See Browne and Kennedy.)						
Kennedy, Charles W., assignor to S. Y. Heebner, Rutledge, Pa. Electric motor and controlling same	616,673	Dec. 27	2730	634 635	85	1995
Kennedy, Edward S. T., Larchmont, N. Y., and J. H. Williamson, Bethel, Conn., assignors to Hazelton Boiler Company, New York, N. Y. Steam-boiler setting	611,219	Sept. 20	1948	449 450	84	1850
Kennedy, Frank M., Celina, Ohio, assignor of one-half to J. W. Stone, Brooklyn, N. Y. Wood molding and sawing machine	602,507	Apr. 19	1578	361 362	83	330
Kennedy, Henry A., assignor to J. Smith, Providence, R. I. Billiard-cue tip	614,006	Nov. 8	1372	313	85	900
Kennedy, Henry A., and F. S. Salisbury, Providence, R. I. Combined car seal and tag	601,344	Mar. 29	3082	696	82	1886
Kennedy, James, Allentown, Pa. Smelting-furnace	598,709	Feb. 8	1107	265 266	82	829
Kennedy, James H. (See McKay, George F., assignor.)						
Kennedy, Jerome, <i>et al.</i> (See Barton, Richard T., assignor.)						
Kennedy, John E., Montreal, Canada. Shoe-lace fastener	602,905	Apr. 26	2281	520	83	477
Kennedy, John E., Montreal, Canada. Shoe-sole. (Reissue.)	11,694	Sept. 20	1968	454	84	1854
Kennedy, John E., Montreal, Canada. Ventilated boot or shoe	616,112	Dec. 20	1644	384	85	1764
Kennedy, John E., Montreal, Canada. Lasting apparatus for rubber footwear	616,113	Dec. 20	1646	384	85	1764
Kennedy, John E., Montreal, Canada. Rubber-soled leather shoe	616,470	Dec. 27	2347	545	85	1925
Kennedy, John Q. A. (See Shires and Kennedy.)						
Kennedy, John W., South Chicago, Ill. Car-door	599,507	Feb. 22	2519	593	82	1137
Kennedy, John W., assignor of one-half to M. A. Saxton, Willingham, Ga. Piston-packing	611,433	Sept. 27	2384		84	1950
Kennedy-McGregor, John A., Chicago, Ill. Caster	606,462	June 28	2661	612 613	83	1917
Kennedy, Michal, Pompey, N. Y. Propelling mechanism for ice-boats	613,281	Nov. 1	105	24	85	636
Kennedy, Richard, Highland, Wis. Wire fence	615,855	Dec. 13	1150	268	85	1650
Kennedy, Thomas, Salt Lake City, Utah. Combined stool and foot-rest	601,021	Mar. 22	2498	568	82	1746
Kennedy, Thomas R., assignor to Co-Operative Foundry Company, Rochester, N. Y. Cooking-stove	596,710	Jan. 4	453	102	82	88
Kennedy, Thomas R., assignor to Co-Operative Foundry Company, Rochester, N. Y. Stove or range	597,320	Jan. 11	1477	345 346	82	304
Kennedy, Willis D., Easton, Pa. Circuit-closer	604,157	May 17	1704	384	83	981
Kennell, William H. (See Bower and Kennell.)						
Kennelly, John J., assignor to J. H. Haggerty, New York, N. Y. Wrench	613,153	Oct. 25	2742	646	85	572
Kenney, Augustine, assignor of one-half to J. E. Wilson, Los Angeles, Cal. Water-wheel	603,770	May 10	952	212	83	802
Kenney, Charles H., New London, Conn. Steam-generator	611,412	Sept. 27	2340	539	84	1943
Kenney, David T., North Plainfield, N. J. Water-closet	613,802	Nov. 8	1039	236 237	85	835
Kenney, David T., North Plainfield, N. J. Valve for water-closets	615,622	Dec. 6	746	173	85	1559
Kenny, George F., Hyde Park, Mass. Self-oiling loose pulley	607,690	July 19	2133	448	84	449
Kenny, James V., Lincoln, Nebr. Steam-boiler furnace	598,997	Feb. 15	1587	376 377	82	938
Kenosha Crib Company. (See Hannahs, Fred C., assignor.)						
Kent, George H., Cambridge, Mass. Paper-holder	602,186	Apr. 12	1050	229	83	211
Kent & Sons, Ambrose. (See Parkinson, John M., assignor.)						
Kent, Thomas W., executor. (See Hann, Bromley, Price, Smith, and Radclyffe.)						
Kent, William, Passaic, N. J. Furnace for steam-boilers	604,158	May 17	1705	384 385	83	981
Kentch, George, Stilwell, Kans. Wire-fence-building appliance	608,608	Aug. 9	786	180	84	830
Kenvin, Thomas H., Homestead, Pa. Window-fixture	596,887	Jan. 4	746	176	82	146
Kenworthy, Abel, assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Machine for rolling rods or wire	599,336	Feb. 22	2175	516 517	82	1070
Kenworthy, Abel, assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Machine for rolling rods or wire	599,337	Feb. 22	2177	517 518	82	1071
Kenworthy, Abel, assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Machine for rolling rods or wire	599,338	Feb. 22	2180	518 519	82	1071
Kenworthy, John. (See Coates, Thomas, assignor.)						
Kenyon, James, and G. Whewell, Blackburn, England. Construction of bicycle-frames	599,450	Feb. 22	2412	566	82	1118
Kenyon, Perry B., Westerly, R. I. Nut-lock	603,819	May 10	1045	233	83	821
Keogh, John, <i>et al.</i> (See Anderson, Jens, assignor.)						
Keogh, John W. (See Ward, Ezra H., assignor.)						
Keough, John, <i>et al.</i> (See Anderson, Jens, assignor.)						
Keough, Lancelot R. (See Mace and Keough.)						
Kepler, Orlando S., Patterson, Pa. Sleeve-holder	597,883	Jan. 25	2458	574	82	527
Keplinger, George B., Chicago, Ill. Brooch	604,763	May 31	2827	646	83	1232
Kepner, Solomon, Pottstown, Pa. Device for preventing bagging of trousers at the knee	610,060	Aug. 30	3481	807	84	1398
Kepp, Ferdinand, Allegheny, and G. Mesta, Pittsburg, Pa.; said Kepp assignor to said Mesta. Gear-molding machine	614,813	Nov. 22	2837	653 654	85	1211
Keppeler, Anton, Butte, Mont. Saw filing and setting machine	595,280	Dec. 6	111	30, 31	85	1435
Kerbs, Emilio, and A. Armellini, Milan, Italy. Apparatus for producing acetylene	599,241	Feb. 15	1988	472	82	1013
Kerkerbusch, Wilhelm, assignor to Gebrüder Kleinmann, Berlin, Germany. Corset-stiffener	599,042	Feb. 15	1666	394	82	955
Kerl, John, New Freedom, Pa. Horse hay-rake	611,382	Sept. 27	2286	527 528	84	1932
Kermode, John J., Liverpool, England. Apparatus for burning liquid fuel in steam-generators, &c	614,959	Nov. 29	3137	719 720	85	1287
Kern, Gottlieb, Riverdale, Ill. Bed-roller guide or track	600,915	Mar. 22	2320	528	82	1713
Kern, John, Columbus, Ohio. Water-heater for bath-tubs	599,339	Feb. 22	2184	519	82	1072
Kern, Ottmar, Paris, France. Incandescent gas-burner	611,914	Oct. 4	555	135	85	110
Kerner, Charles, Jr., Chicago, Ill. Pedal for bicycles	598,788	Feb. 8	1226	297	82	852
Kerr, Benjamin S., Monroe, Wis. Washing-machine	600,585	Mar. 15	1773	405	82	1595
Kerr, Edward, Pittsburg, Pa. Bosh-plate for furnaces	615,456	Dec. 6	447	105	85	1498



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Kerr, James G., assignor of one-half to H. W. Smith, Niagara, and C. Fry, Copetown, Canada. Acetylene-gas apparatus	596,937	Jan. 4	838	198 199	82	163
Kerr, James H. S. (See Cartledge, Wright R., assignor.)						
Kerr, John, Dayton, Ky., assignor to Singer Manufacturing Company, of New Jersey. Two-needle sewing-machine	598,346	Feb. 1	475	113	82	691
Kerr, Milton B. (See Jones and Kerr.)						
Kerr, William S., Ada, Ind. Ter. Can-opener	602,455	Apr. 19	1499	342	83	314
Kersey, Thomas P., and E. W. Leach, Pulaski, Tenn. Thill-coupling	602,989	Apr. 26	2429	554	83	506
Kershaw, Charles S., Sherburne, N. Y. Block and tackle	609,498	Aug. 23	2361	557	84	1163
Kershaw, Francis A., Kenosha, Wis. Velocipede	613,282	Nov. 1	106	25	85	636
Kershaw, Francis A., Kenosha, Wis. Chainless bicycle	614,250	Nov. 15	1824	422	85	1006
Kershaw, Francis A., Kenosha, Wis. Bevel-gear	614,251	Nov. 15	1826	422	85	1006
Kershaw, Francis A., Kenosha, Wis., assignor to Sterling Cycle Works, Chicago, Ill. Machine for grinding cup and cone bearings	614,249	Nov. 15	1822	420 421	85	1006
Kershaw, John, Hebden Bridge, England. Apparatus for cutting pile of velvets, &c.	611,257	Sept. 27	2024	467	84	1885
Kershner, Ferdinand. (See Kershner, Sturgeon, assignor.)						
Kershner, Sturgeon, Blue Hill, Nebr., assignor of one-fourth to F. Kershner, Marion, Iowa. Rotary engine	602,456	Apr. 19	1501	342	83	315
Kerst, John G., assignor of two-fifths to H. C. and I. J. Bell, Springfield, Ill. Cutlery-scourer	598,789	Feb. 8	1228	297	82	853
Kersten, Emil, Richmond, Va. Means for racking beer	616,336	Dec. 20	2083	485	85	1851
Kersting, Joseph, Berlin, Germany. Automatic air-pump for tires	615,187	Nov. 29	3556	818	85	1365
Kersteter, Charles W., assignor to Niagara Fire Extinguisher Company, Akron, Ohio. Automatic sprinkler	597,115	Jan. 11	1159	272	82	242
Kersteter, Charles W., assignor to Niagara Fire Extinguisher Company, Akron, Ohio. Duplex induction-valve for automatic sprinklers	606,787	July 5	292	60	84	58
Kervick, Emily T., Baltimore, Md. Pew-guard	604,236	May 17	1848	414	83	1008
Kespohl, William. (See Donaldson and Kespohl.)						
Kesselman, William H. (See Kiser, Frank M., assignor.)						
Kesseling, Friedrich, Sterling, N. J. Spindle for quilling-machines	606,890	July 5	464	99	84	91
Kessinger, William F., Blanchard, Pa. Hat-pin securer	603,830	May 10	1075	240	83	825
Kessler, Martin C., Gilead, Ind. Rotary engine	602,334	Apr. 12	1289	285 286	83	260
Kessler, William F., Auburn, Ind. Electric cigar-lighter	598,489	Feb. 1	714	173	82	738
Kester, Henry J., Napoleon, Ohio. Fodder-bundler	606,287	June 28	2336	541	83	1853
Kester, Julius B. (See Kendall and Kester.)						
Ketchum, Louie E., Jerseyville, Ill. Fence-post	606,558	June 28	2834	653	83	1951
Ketelair, Jean B. (See Loquet and Ketelair.)						
Ketelhodt, Hans F. von, Ober Ehrenbreitstein, Germany. Lamp-holder for bicycles	609,149	Aug. 16	1835	435	84	1040
Kethley, L. W., et al. (See Barron, James E., assignor.)						
Ketterly, John. (See Wickes and Ketterly.)						
Keuffel, Willie L. E., Hoboken, N. J. Slide-rule	603,695	May 10	823	181	83	777
Keukelaere, Gustave de, Alost, Belgium. Machine for depilating skins	607,654	July 19	2079	433 434	84	439
Keunen, Everard, Eindhoven, Netherlands, and R. Högfeldt, Dusseldorf, Germany. Box-making machine	608,201	Aug. 2	62	15 16 17	84	667
Key, John T., Sandal Magna, England. Process of and apparatus for manufacturing coke	609,150	Aug. 16	1836	435 436	84	1040
Keyes-Baker Cigar Rolling Machine Company. (See Baker, Charles A., assignor.)						
Keyes, Frank R., Binghamton, N. Y. Cigar-bunch-rolling machine	607,051	July 12	775	169 170	84	169
Keyes, Herbert L., Hackensack, N. J., assignor to himself, and H. C. Norton, Newburg, N. Y. Window-shade carrier	603,403	May 3	273	61	83	652
Keyes, James A., New York, N. Y. Fare-register	609,938	Aug. 30	3257	761	84	1348
Keyes, James A., New York, N. Y. assignor to N. S. Perkins, New London, Conn. Machine for doubling silk or other threads	600,726	Mar. 15	2008	457 458	82	1641
Keyes, Malcolm S. (See Spencer and Keyes.)						
Keyless Lock Company. (See Holton, Winfred B., assignor.)						
Keyless Lock Company. (See Holton, Winfred B., assignor.) (Reissue.)						
Keys, Frank W. (See Cooper and Keys.)						
Keys, Jesse S., Madison, N. J. Packing-receptacle	613,520	Nov. 1	554	125	85	720
Keys-Lee-Huewe Company. (See Huewe, George A., assignor.)						
Keystone Electric Company. (See Powell, William H., assignor.)						
Keystone Seal and Press Company. (See Schofield, Albert B., assignor.)						
Keystone Watch Case Company. (See Mink, Fritz, assignor.)						
Kholodkowski, Andrew, Kiev, Russia. Safety apparatus for air-brakes	600,537	Mar. 15	1694	387 388	82	1581
Kibin, John, New York, N. Y. Pulley or sheave	597,063	Jan. 11	1064	249	82	224
Kibling, George F., Hanover, N. H. Mining apparatus	604,330	May 17	2029	454	83	1043
Kibling, George F., Hanover, N. H. Hydraulic dredge for mining purposes	610,763	Sept. 13	1116	255	84	1674
Kidd, John S., Des Moines, Iowa. Sprocket-wheel and chain	599,612	Feb. 22	2714	635	82	1175
Kidd, Walter J., South Orange, assignor to Albo-Carbon Light Company, Newark, N. J. Carbureting-lamp	613,419	Nov. 1	379	88	85	687
Kidder Press Manufacturing Company. (See Meisel, Francis, assignor.)						
Kiddier, Herbert, Nottingham, England. Mud-guard for cycles	614,007	Nov. 8	1372	313 314	85	900
Kieckhefer Brothers Company. (See Walter, Sebastian, assignor.)						
Kiefaber, George A., Philadelphia, Pa. Combined manicuring device and cigar-cutter	612,990	Oct. 25	2487	592	85	522
Kiefer, Charles C., and L. J. Evert, Blue River, Wis.; said Evert assignor to said Kiefer. Washing-machine	616,114	Dec. 20	1648	384	85	1764
Kiehl, F. O. (See Kiehl, Louis E., assignor.)						
Kiehl, Louis E., assignor of one-half to F. O. Kiehl, Reedsville, Wis. Harness-buckle	602,508	Apr. 19	1583	362	83	331
Kieley, Timothy J. (See Mueller, Frederick T., assignor.)						
Kienast, Hermann, Berlin, Germany. Measuring device	613,684	Nov. 8	804	185	85	790
Kierakowicz, Teodor, and J. Lucas, Chicago, Ill. Hub for vehicle wheels	614,726	Nov. 22	2693	614	85	1182
Kiernan, Thomas J., Boston, Mass. Water-faucet	612,947	Oct. 25	2418	576	85	507
Kieth, Marshall D. (See Ferguson, Anson A., assignor.)						
Kievit, Louis, Albany, N. Y. Bottle	599,711	Mar. 1	64	15	82	1228
Kight, William K., assignor of one-half to H. D. Williams, Poplar Bluff, Mo. Car-coupling	613,768	Nov. 8	975	223	85	823
Kilbourn, Washington H., Greenfield, Mass. Feeding device for sanders	613,861	Nov. 8	1135	260	85	853
Kilby, Joseph F., and J. Taylor, Cleveland, Ohio; said Taylor assignor to said Kilby. Sugar-crystallizer	599,392	Feb. 22	2294	542	82	1094
Kilduchevsky Mega-Telephone Syndicate. (See Kilduchevsky, Paul de, assignor.)						
Kilduchevsky, Paul de, assignor to Kilduchevsky Mega-Telephone Syndicate, Limited, London, England. Long-distance telephone	607,801	July 19	2345	494 495	84	490



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Kile, John W. (See Graham and Kile.)						
Kile, William A., Putnam, Tex. Combined cotton-seed and corn planter	609,279	Aug. 16	2090	495	84	1091
Kilgore, Thad S., Henderson, Iowa. Clamp	601,569	Mar. 29	3447	783	82	1959
Killars, John, Stonington, Conn. Knife-sled motion for plush or velvet looms	610,711	Sept. 13	1027	237	84	1657
Killeen, Michael, Braddock, Pa. Blast-furnace casting apparatus	608,143	July 26	2974	638	84	632
Killeen, Michael, Braddock, Pa. Twyer-cooler	613,042	Oct. 25	2566	609	85	537
Killen, Edward B., Belfast, Ireland. Driving apparatus for cycles	609,151	Aug. 16	1838	436 437	84	1041
Killen, Edward B., Belfast, Ireland. Axle for cycles or like vehicles	612,735	Oct. 18	2026	481	85	412
Killen, Edward B., Belfast, Ireland. Driving-back for cycles	615,715	Dec. 13	908	211	85	1604
Killian, John F., Stockton, Cal. Vehicle-jack	597,167	Jan. 11	1242	292	82	258
Killing, Carl, Dusseldorf, Germany, assignor, by mesne assignments, to United States Nomatch Light Company, of West Virginia. Mantle for incandescent gas-burners	614,555	Nov. 22	2363		85	1122
Killing, Carl, Dusseldorf, Germany, assignor, by mesne assignments, to United States Nomatch Light Company, of West Virginia. Mantle for incandescent gas-burners	614,556	Nov. 22	2365		85	1122
Killing, Carl, Dusseldorf, Germany, assignor, by mesne assignments, to United States Nomatch Light Company, of West Virginia. Gas-lighting attachment	614,557	Nov. 22	2368	542	85	1122
Killinger, John, Wayne, assignor, by mesne assignments, to W. H. Hart, Jr., Philadelphia, Pa. Garment or other hook	598,710	Feb. 8	1109	266	82	830
Killion, Richard M., Rosedale, Kans., and E. M. Perdue, Kansas City, Mo. Ink-well	599,423	Feb. 22	2357	556	82	1107
Killip, John D. (See Perkins and Killip.)						
Killman, Thomas A., and H. A. Bratten, Liberty, Tenn., assignors, by mesne assignments, to American Computing Scale Company, New York, N. Y. Computing-scale	604,535	May 24	2419	550	83	1134
Kilmer, William A., Des Plaines, Ill. Mesh-wire-fence fabric	615,281	Dec. 6	113	31	85	1435
Kilmer, William A., Des Plaines, Ill. Picket-forming machine for wire fences	616,116	Dec. 20	1655	386 387	85	1765
Kilmer, William A., Joliet, Ill. Wire-fence machine	616,115	Dec. 20	1650	385 386 307	85	1764
Kimball, Robert E., Cleveland, Ohio. Adding-machine	605,789	June 14	1343	308 309	83	1627
Kimball, William D., Milwaukee, Wis. Transferring strip and scale	603,088	Apr. 26	2600	591	83	537
Kimball, William H., Jonesville, Mich. Gate	613,010	Oct. 25	2518	599	85	528
Kimball, William H., assignor of one-half to D. Darling, Jonesville, Mich. Fence-post	602,807	Apr. 19	2110	476	83	429
Kimbel, Charles A., Louisville, Ky. Fly-catcher	602,083	Apr. 12	853	185	83	173
Kimberling, William. (See Hill, Charles L., assignor.)						
Kimble, Samuel, Manhattan, Kans. Educational appliance	602,222	Apr. 12	1105	243	83	222
Kimble, Z. Ellis. (See Guernsey, James W., assignor.)						
Kimburg, Peter A., assignor of one-third to W. T. Block, Chicago, Ill. Water-heater for locomotive-boilers	616,541	Dec. 27	2476	574	85	1948
Kimes, Hugh W., Dayton, Ohio. Pump	616,849	Dec. 27	3039	706	85	2059
Kimes, Hugh W., assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Pump	614,396	Nov. 15	2088	481	85	1057
Kimmel, Charles H., Concordia, Kans. Plow	598,874	Feb. 8	1361	328 329	82	879
Kimmey, Peter M. (See Sandiford, William, assignor.)						
Kimsey, James C., Little Rock, Ark., assignor to Philadelphia Camera Company, Limited, Philadelphia, Pa. Photographic-plate carrying and transferring case	607,052	July 12	778	170	84	170
Kimsey, James C., assignor to Philadelphia Camera Company, Limited, Philadelphia, Pa. Photographic-plate magazine	607,053	July 12	780	170	84	170
Kimsey, James C., assignor to Philadelphia Camera Company, Limited, Philadelphia, Pa. Photographic-plate holder	607,054	July 12	783	171	84	171
Kincaid, Barron P. (See Hettinger and Kincaid.)						
Kincaid, John G., Greenock, and W. Crockett, Glasgow, Scotland. Separator	612,207	Oct. 11	1083	259 260	85	221
Kincaid, Joseph W., assignor to Reading Crane and Hoist Works, Reading, Pa. Chain hoist	609,939	Aug. 30	3261	762	84	1349
Kinch, Lewis E., et al. (See Smith, Frank S. and S. J., assignors.)						
Kincheloe, Charles F., Washington, D. C. Horse-detacher	606,419	June 28	2592	598	83	1902
Kinder, Joseph J. de, and A. C. Wood, Philadelphia, Pa. Boiler and furnace	603,089	Apr. 26	2601	591 592	83	537
Kindermann, Friedrich, Oregon, Ill. Attachment for pianos	609,966	Aug. 30	3321	773	84	1361
Kindl, Frederick H., Pittsburg, Pa. Side frame for car-trucks	614,269	Nov. 15	1854	429	85	1012
Kindleberger, Jefferson. (See Bradt and Kindleberger.)						
Kindt, Gustave F., assignor of one-half to C. E. Von Stege, Woodbury, N. J. Lock for prison-cells	603,277	May 3	59	15	83	612
King, Adelmour W., Brooklyn, N. Y. Pneumatic grip or handle	599,131	Feb. 15	1806	430	82	980
King Bridge Company. (See Fuller, Harry, assignor.)						
King, Charles, assignor of one-half to W. E. Moore, Grand Rapids, Mich. Carpet-sweeper	616,870	Dec. 27	3130	725	85	2077
King, Charles H., Granite Falls, Minn., assignor to F. J. Cressy. Blowpipe	601,208	Mar. 22	2807	642	82	1806
King, Charles K., and G. A. Mead, Mansfield, Ohio; said Mead assignor to Ohio Brass Company, of Ohio. Insulated supporter for electric or other wires	614,270	Nov. 15	1855	429	85	1013
King, Charles L., assignor of one-half to A. E. and E. J. Camblin, Stella, Nebr. Wheeled cultivator	614,727	Nov. 22	2694	614	85	1182
King, Charles N., et al. (See Walkins, Louis E., assignor.)						
King, Charles W., deceased, Newton, Mass.; E. H. King and J. H. Caldwell, executors, assignors to Puritan Lasting Machine Company, Portland, Me. Lasting-machine	612,346	Oct. 11	1337	323 324 325	85	268
King, Clifford G., Attleborough, Mass., assignor to A. H. Clark, Providence, R. I. Cuff-fastener	597,679	Jan. 18	2105	493	82	442
King, Edward M., and J. Kaslinke, Jackson, Mich. Lubricator	612,736	Oct. 18	2027	481	85	412
King, Emma H., et al., executors. (See King, Charles W.)						
King, Ferdinand, New York, N. Y. Syringe-nozzle	609,280	Aug. 16	2091	496	84	1091
King, Frank S. and H. A., Chicopee, Mass. Miter-box	612,111	Oct. 11	926	225	85	191
King, Frederick B., New York, N. Y. Section-ruler	598,875	Feb. '8	1363	329	82	879
King, George H., Kansas City, assignor of one-fourth to A. J. Prudot, Hermann, Mo. Toy	616,239	Dec. 20	1914	443	85	1817
King, George H., Kansas City, assignor of one-fourth to A. J. Prudot, Hermann, Mo. Combination-toy	616,240	Dec. 20	1916	443	85	1817
King, George R., New York, N. Y., and A. Raymond, Chicago, Ill. Roller pulverizing-mill	600,876	Mar. 22	2259	515	82	1702
King & Hamilton Company. (See Gilman, John H., assignor.)						
King, Henry C. (See Dillon, Peter, assignor.)						
King, Herbert A. (See King, Frank S. and H. A.)						
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Paper-folding machine	602,990	Apr. 26	2430	554	83	506



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King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Paper-folding machine	612,245	Oct. 11	1153	{ 277 278 279	{ 85	235
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Paper-folding machine	612,246	Oct. 11	1162	{ 279 280 281	{ 85	236
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Chilian mill	612,247	Oct. 11	1170	281	85	237
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Sheet-piling device	612,248	Oct. 11	1173	282	85	238
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Cut-off mechanism for brick-machines	612,249	Oct. 11	1175	282	85	238
King, James M., Nebraska City, Nebr. Hair-clipper	614,960	Nov. 29	3139	720	85	1287
King, James M., assignor to C. A. Van Pelt, Blue Springs, Nebr. Seed press-drill	612,043	Oct. 11	803	{ 198 199	{ 85	168
King, John. (See Baker and King.)						
King, John, London, England. Heating feed-water and circulation	604,052	May 17	1505	{ 338 339	{ 83	943
King, John, assignor to J. King, Sidney, Ohio. Game toy	615,188	Nov. 29	3558	819	85	1366
King, John C., San Francisco, Cal. Tone-modifying attachment for pianos	602,135	Apr. 12	939	205	83	190
King, John H. (See Smith, William P., assignor.)						
King, John T., Madison, Wis. Printing-press	599,102	Feb. 15	1753	{ 416 417 418	{ 82	971
King, Joseph. (See Hill, Frederick, assignor.)						
King, Joseph. (See Hill, Royal V., assignor.)						
King, Joseph. (See King, John, assignor.)						
King, Joseph D., Menominee, Mich. Bicycle handle-bar	596,814	Jan. 4	633	146	82	122
King, Joseph D., and M. A. Burns, Menominee, Mich. Key-fastener	607,381	July 12	1401	299	84	287
King, Joseph D., and M. A. Burns, Menominee, Mich. Adjustable handle-bar	613,633	Nov. 1	732	170	85	756
King, Joseph G. (See Deadman, Arthur, assignor.)						
King, Josiah A., et al. (See Matteson, Rufus S., assignor.)						
King, Patrick J., et al. (See Hodges, John D., assignor.)						
King Revolving Advertiser Company. (See King, Thomas J., assignor.)						
King, Richard N., Montreal, Canada. Ticket-carrier	612,906	Oct. 25	2357	561	85	494
King, Rufus D., Bowman, Ga. Saw-jointer	605,550	June 14	887	207	83	1544
King, Rufus D., Bowman, Ga. Self-rocking cradle	611,174	Sept. 20	1861	429	84	1834
King, Theophilus. (See Reenstierna, Gustaf L., assignor.)						
King, Theophilus, trustee. (See Kempshall, Eleazer, assignor.)						
King, Thomas A., Jersey City, N. J. Pressure-valve	615,623	Dec. 6	751	174	85	1560
King, Thomas E. (See Foster, Edwin L., assignor.)						
King, Thomas J., Richmond, Va. Seed-drill	596,600	Jan. 4	254	56	82	50
King, Thomas J., assignor to King Revolving Advertiser Company, Knoxville, Tenn. Advertising-vehicle	613,634	Nov. 1	734	171	85	756
King, Thomas W., Maryland Line, Md. Shield for cultivators	596,660	Jan. 4	358	79	82	71
King, Walter H. G., Denver, Colo. Bicycle driving-gear	602,906	Apr. 26	2281	521	83	477
King, Wiley S., Darlington, S. C. Portable jail	614,008	Nov. 8	1374	{ 314 315	{ 85	900
King, William, Eccles, England. Wrench	616,540	Dec. 27	2475	{ 573 574	{ 85	1948
King, William A., Pierre, S. D. Cream-saver	616,192	Dec. 20	1815	419	85	1797
King, William E., Chase, Mich. Magazine-firearm	604,764	May 31	2829	{ 646 647	{ 83	1232
King, William H. (See Mims and Dunkle, assignors.)						
King, William J., Bavington, Pa. Hay-sling	599,144	Feb. 15	1829	434	82	984
King, William T., Tallapoosa, Ga. Washing-machine	609,550	Aug. 23	2569	602	84	1201
Kingdon, Zachary H., London, assignor to D. A. McNeight, Liverpool, England. Velocipede	614,174	Nov. 15	1657	381	85	976
Kingsbury, Harry T., Keene, N. H. Wheel lacing and truing chuck	597,613	Jan. 18	1992	464	82	423
Kingsbury, Herbert N. (See Merriman, Francis E., assignor.)						
Kingsland Manufacturing Co. (See Kingsland, Philip S., assignor.)						
Kingsland, Philip S., assignor to Kingsland Manufacturing Co., St. Louis, Mo. Door-catch for baling-presses	613,154	Oct. 25	2743	647	85	572
Kingsland, William, Llandudno, England. Electrical traction	609,188	Aug. 16	1899	452	84	1051
Kingsley, James A., Rochester, N. Y. Folding box	616,848	Dec. 27	3038	706	85	2059
Kingsley, Lewis J., Binghamton, N. Y. Reducing-press	605,167	June 7	195	49, 50	83	1388
Kinkade, John R., Sonora, Ky. Wagon-brake	605,551	June 14	888	207	83	1545
Kinnard, Frederick G., Paterson, N. J. Brush attachment for bicycle chains	608,609	Aug. 9	788	181	84	830
Kinnard Manufacturing Company. (See Kinnard, Will M., assignor.)						
Kinnard Manufacturing Company. (See Knobloch, Frank, assignor.)						
Kinnard, Will M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper vessel	615,716	Dec. 13	909	{ 211 212	{ 85	1604
Kinnard, Will M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper vessel	616,471	Dec. 27	2348	{ 545 546	{ 85	1925
Kinnard, Will M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Germ-proof package	616,472	Dec. 27	2350	546	85	1925
Kinne, Theodore Y., and A. Gartner, Paterson, N. J. Compressible tube	610,355	Sept. 6	411	88	84	1519
Kinnear, William R., Columbus, Ohio. Fireproof blind or curtain	602,602	Apr. 19	1744	{ 397 398	{ 83	360
Kinnear, William R., Columbus, Ohio. Metal door, partition, &c	603,106	Apr. 26	2628	597	83	543
Kinnear, William R., Columbus, Ohio. Rolling fireproof curtain	610,543	Sept. 13	751	171	84	1599
Kinney, Edwin R. (See Bowman and Kinney.)						
Kinney, Israel, Detroit, Mich., assignor to J. S. Stockwell, E. M. Weatherhead, F. W. Durrant, and E. F. H. Pearson. Combined foot scraper and wiper	605,552	June 14	890	207	83	1545
Kinney, Richard R., and G. P. Barnard, assignors of one-third to W. L. Barth, Coldwater, Mich. Burial apparatus	606,722	July 5	157	35	84	32
Kinraide, Thomas B., Boston, Mass. Electric break for induction-coils	607,176	July 12	1013	220	84	213
Kinraide, Thomas B., Boston, Mass. Electric break and induction apparatus	607,177	July 12	1016	221	84	213
Kinraide, Thomas B., Boston, Mass. High-frequency apparatus	615,652	Dec. 6	803	187	85	1571
Kinraide, Thomas B., Boston, Mass. High-frequency induction apparatus	615,653	Dec. 6	805	187	85	1571
Kinsbruner, Samuel L., Berlin, Germany. Roller-skate	602,704	Apr. 19	1936	440	83	397
Kinsbruner, Samuel L., Friedenau, assignor to Staubschutz, Gesellschaft mit Beschränkter Haftung, Berlin, Germany. Vehicle for collecting household refuse or other material	614,009	Nov. 8	1376	315	85	901
Kinsey, Ernest U., New York, N. Y. Cabinet for phonograph-cylinders	615,856	Dec. 13	1151	{ 268 269	{ 85	1650



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			Spec.	Dr'g.	Vol.	Page.
Kinsey, Henry H., Shoshone, Idaho. Collapsible box	602,290	Apr. 12	1224	270	83	246
Kinnear, William R., Columbus, Ohio. Horseshoe	599,712	Mar. 1	65	15	82	1229
Kinsey, Isaac, and J. Kirby, Jr., Dayton, Ohio. Vapor or gas stove	600,833	Mar. 15	2179	496	82	1673
Kinsman, John H. (See Cole and Kinsman.)						
Kinsman, Thomas H., St. Louis, Mo. Ironing-board	606,788	July 5	294	61	84	59
Kintner, Charles J. (See Bunnell and Kintner.)						
Kintner, Charles J., New York, N. Y. Bicycle-handle	599,564	Feb. 22	2620	614	82	1158
Kintner, Charles J., New York, N. Y. Permutation-lock	599,565	Feb. 22	2622	615	82	1158
Kinyon, Alonzo G., Elgin, Ill. Triple valve for air-brake mechanism	601,304	Mar. 29	3014	630	82	1874
Kinyon, Alonzo G., Chicago, Ill. Triple valve for air-brakes	610,237	Sept. 6	179	40	84	1476
Kinzel, John W., <i>et al.</i> (See Melcher, John E., assignor.)						
Kinzer, John J., Jr., assignor to Kinzer & Jones Manufacturing Company, Pittsburg, Pa. Last-support	613,862	Nov. 8	1137	260	85	853
Kinzer & Jones Manufacturing Company. (See Kinzer, John J., Jr., assignor.)						
Kipling, Joseph. (See Flood and Kipling.)						
Kirby, Charles K., San Francisco, Cal. Continuous wine-press	603,880	May 10	1164	263	83	843
Kirby, Edmund B., Denver, Colo. Keyboard for type-writing machines	597,775	Jan. 25	2269	530	82	491
Kirby, Edmund B., Denver, Colo. Keyboard for type-writing machines	597,776	Jan. 25	2277	532	82	492
Kirby, J. P., <i>et al.</i> (See Johnck, John, assignor.)						
Kirby, John, Jr. (See Kinsey and Kirby.)						
Kirby, John, Jr. (See Tesseyman and Kirby.)						
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Berth curtain-rod fixture	603,643	May 10	739	165	83	760
Kirby, John, Jr., Dayton, Ohio, assignor to United States Head-Light Company, Utica, N. Y. Glass-holder	608,610	Aug. 9	788	181	84	830
Kirby, Stephen R., New York, N. Y. Great-circle course-indicator	615,857	Dec. 13	1152	269	85	1651
Kirby, Thomas B., Chicago, Ill. Car-lock	605,880	June 21	1546	355	83	1685
Kirby, William A., New York, N. Y. Combined boat and sled	613,576	Nov. 1	641	149	85	738
Kirchhahn, Charles. (See Lecher and Kirchhahn.)						
Kirchhoff, Theodor, Milwaukee, Wis. Expansible pulley	601,660	Apr. 5	65	13	83	14
Kirchmer, Jacob, Jr., Cincinnati, assignor of one-third to H. C. Staps, Elmwood Place, Ohio. Window-cleaner	606,995	July 5	639	138	84	127
Kirchner, Louis. (See Molloy and Kirchner.)						
Kirchoff, Theodor, assignor of two-thirds to S. Kraus and S. Wertheim, Milwaukee, Wis. Axle-nut	601,264	Mar. 29	2917	664	82	1854
Kirk, Howard, <i>et al.</i> (See Stanton, Henry, assignor.)						
Kirk, Hugh F. (See Jocelyn, George B., assignor.)						
Kirk, Leonard G., New York, N. Y. Automatic air-valve for steam-radiators	605,315	June 7	492	110	83	1446
Kirk, Robert S., Dresden, Tex. Cattle-yoke	600,950	Mar. 22	2376	540	82	1724
Kirker-Bender Fire Escape Company. (See Logan, William H., assignor.)						
Kirkham, John, assignor of one-half to J. von Wyl, Oakland, Cal. Acetylene-gas generator	609,189	Aug. 16	1902	453	84	1051
Kirkpatrick, Otto B., Aspen, Colo. Seal-lock	613,928	Nov. 8	1242	282	85	874
Kirkpatrick, Otto B., and G. L. Banks, Colorado Springs, Colo. Seal-lock	607,512	July 19	1814	377	84	391
Kirkpatrick, Percy W., Belleair, Fla. Bicycle-stand	610,061	Aug. 30	3482	807	84	1393
Kirkpatrick, Thomas J., Springfield, Ohio. Cycle-saddle	603,789	May 10	987	221	83	809
Kirkpatrick, Thomas J., Springfield, Ohio. Bicycle-saddle	605,689	June 14	1150	268	83	1594
Kirkwood, Hugh, Minneapolis, Minn. Sales-book	600,369	Mar. 8	1367	312	82	1499
Kirkwood, John. (See Paul and Kirkwood.)						
Kirkwood, John, Lenox, Mass. Steam-boiler feeder	597,884	Jan. 25	2459	574	82	527
Kirkwood, John, Lenox, Mass. Photographic-plate washer	608,871	Aug. 9	1285	300	84	923
Kirkwood, John, Lenox, Mass. Nut-lock	608,872	Aug. 9	1287	300	84	923
Kirschen, Paul, assignor to K. A. Lingner, Dresden, Germany. Disinfecting apparatus	615,858	Dec. 13	1154	269	85	1651
Kirschfink, Joseph. (See Hüssener, Holbeck, and Kirschfink.)						
Kirshman, Thomas, California, and L. M. Medlin, Latham, Mo. Baling-press	600,791	Mar. 15	2109	482	82	1661
Kiser, Alvie V., Springfield, Ohio. Rubber tire	605,881	June 21	1547	355	83	1685
Kiser, Frank M., assignor to W. H. Kesselman, Parkersburg, W. Va. Device for removing drilling-tools from wells	614,814	Nov. 22	2839	654	85	1211
Kisinger, John T. T., Stilwell, Kans. Wire-fence-building appliance	610,489	Sept. 6	646	145	84	1562
Kissell, Aaron. (See Guyer, Kelly, and Kissell.)						
Kissell, Aaron, assignor of one-half to F. M. Loe and N. Guyer, Cygnet, Ohio. Automatic pulverizing-harrow	604,352	May 17	2080	466	83	1053
Kissell, Aaron, and I. J. Space, Cygnet, Ohio. Stove-leg	602,335	Apr. 12	1291	286	83	260
Kitchel, Simon B., Coldwater, Mich. Cartridge-loading implement	615,282	Dec. 6	115	31	85	1436
Kitchen, John G. A., assignor to Manchester Cycle Components, Limited, Manchester, England. Lamp	598,490	Feb. 1	716	173	82	738
Kitchin, Samuel B., Scotland Neck, N. C. Automatic flexible coupling for train-pipes	608,406	Aug. 2	430	95	84	742
Kitselman, Alva L., <i>et al.</i> (See Jones, William H., assignor.)						
Kitselman, Alva L., Ridgeville, Ind. Fence-machine	606,420	June 28	2593	598	83	1903
Kitselman, Alva L., Ridgeville, Ind. Woven-wire fencing	606,421	June 28	2597	598	83	1904
Kitselman, Alva L., Ridgeville, Ind. Wire-stretcher	607,751	July 19	2229	471	84	468
Kitselman, Davis M., <i>et al.</i> (See Jones, William H., assignor.)						
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Charleston, W. Va. Vapor-burning apparatus	598,491	Feb. 1	717	174	82	738
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. Vapor-burning apparatus	600,792	Mar. 15	2113	483	82	1661
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Charleston, W. Va. Vapor-burning apparatus	601,199	Mar. 22	2791	639	82	1803
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. System and apparatus for distributing fluid	602,223	Apr. 12	1107	243	83	223
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. Vapor-burning apparatus	607,995	July 26	2716	579	84	578
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. Vapor-burning apparatus	607,996	July 26	2717	579	84	579
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. Vapor-burning apparatus	608,051	July 26	2832	603	84	604
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. Vapor-burning apparatus	613,685	Nov. 8	806	185	85	791
Kitson Hydrocarbon Heating and Incandescent Lighting Company. (See Kitson, Arthur, assignor.)						
Kitson, Thomas, Stroudsburg, Pa. Time-operating valve	613,155	Oct. 25	2744	647	85	573
Kittelsen, Nils M., and M. Walker, Chicago, Ill. Window frame and sash	603,597	May 3	641	143	83	726
Kittle, Charles R., Los Angeles, Cal. Hydrocarbon-burner	605,200	June 7	257	60	83	1399



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kittredge, Anson O. (See Brown and Kittredge.)						
Kittredge, Charles H. (See Wilson, Volney M., Jr., assignor.)						
Kittson, Alfred B., Boston, and A. B. Browne, Cambridge, assignors of one-third to C. M. Reed, Boston, Mass. Pigment for paints.	602,163	Apr. 12	1007		83	203
Kitzelman, Gustave, Chicago, Ill. Wheel.	608,292	Aug. 2	215	50	84	697
Kizer, Joseph L., Louisiana, Mo. Cash-register.	598,876	Feb. 8	1364	329	82	879
Kjoer, Lauritz P. J. V., Copenhagen, Denmark. Arm-support for dentists.	602,084	Apr. 12	853	186	83	173
Klahn, Emil, West Hoboken, N. J. Ball-retaining device for ball-bearings.	611,689	Oct. 4	172	41	85	36
Klahn, Emil, West Hoboken, N. J., assignor to Manufacturers and Merchants Warehouse Company, Chicago, Ill. Machine for assembling ball-retainers for ball-bearings.	308,611	Aug. 9	790	181 182 183	84	831
Klar, August A., Cincinnati, Ohio. Automatic cut-off and strainer for cisterns.	609,439	Aug. 23	2363	557	84	1163
Klatte, Otto, Dusseldorf, Germany. Coupling shackle or link.	612,501	Oct. 18	1597	381	85	331
Klauder, Clara L., Philadelphia, Pa. Game apparatus.	605,723	June 14	1212	280	83	1603
Klauder, Johannes, Dessau, Germany. Ring game.	611,915	Oct. 4	557	136	85	110
Klausman, Oscar, Bridgeport, Conn. Harness-saddle loop.	610,403	Sept. 6	505	110	84	1536
Klay, Abraham B., G. Jennings, and F. Ewing, West Cairo, Ohio. Machine for pressing clay shingles, roofing-tiles, bricks, &c.	615,560	Dec. 6	641	147	85	1537
Klay, Andrew, Bluffton, Ohio. Milling-cutter for metal-working machines.	602,291	Apr. 12	1226	270	83	246
Kleber, Emil, assignor to E. Scherff and G. Roscher, Berlin, Germany. Self opening or closing umbrella.	604,495	May 24	2351	533	83	1123
Kleber, Frank. (See Cable, Daniel J., assignor.)						
Kleckner, Asaph M., Findlay, Ohio. Pipe-wrench.	608,202	Aug. 2	65	17	84	668
Klein, Daniel, Glen, Nebr., assignor of one-half to De Laval Separator Company. Milk-ing apparatus.	598,423	Feb. 1	620	152	82	720
Klein, Eugene, assignor to P. Klein, Grand Rapids, Mich. Composition for impregnating wood and fiber.	605,060	May 31	3317		83	1327
Klein, George, Jr., New York, N. Y. Alarm mechanism for cars.	614,871	Nov. 29	2959	679	85	1249
Klein, Henry, New Lexington, Ohio. Display-stand.	614,479	Nov. 22	2251	515	85	1101
Klein, John S., Oil City, Pa. Supply-controlling mechanism for gas-engines.	613,284	Nov. 1	110	26	85	637
Klein, John S., Oil City, Pa. Supply-controlling mechanism for gas-engines.	615,393	Dec. 6	332	78, 79	85	1477
Klein, Louis, Jersey City, N. J. Leveling-rod.	599,242	Feb. 15	1990	473	82	1013
Klein, Pauline. (See Klein, Eugene, assignor.)						
Klein, Steven J., Pittsburg, Pa. Gate.	609,680	Aug. 23	2828	660	84	1251
Klein, William H., assignor to Wisconsin Furniture Company, Milwaukee, Wis. Extension-table.	602,509	Apr. 19	1585	363	83	331
Kleinmann Gebrüder. (See Kerkenbusch, Wilhelm, assignor.)						
Kleinschmidt, Henry F. A., Johnstown, Pa., assignor to Lorain Steel Company, of Ohio. Electric welding.	616,436	Dec. 20	2267	529	85	1889
Kleinschmidt, Henry F. A., Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Electric welding.	616,437	Dec. 20	2268	529	85	1889
Kleinstuber, John, New York, N. Y. Hook for chatelaine or other bags.	603,145	Apr. 26	2700	613	83	558
Klemm, Hermann A., assignor of three-fourths to J. Mettau, New York, and F. E. Glatz, Brooklyn, N. Y. Bicycle-brake.	605,047	May 31	3295	756	83	1323
Klemm, Hermann A., assignor of one-half to C. Engelhardt, New York, N. Y. Overedge seam.	613,577	Nov. 1	644	149	85	738
Klever, Friedrich W., Cologne, assignor to E. T. Pearson, Hamburg, Germany. Ointment-base and making same.	608,612	Aug. 9	793		84	831
Klimmek, Otto, assignor of one-half to A. E. Palmer, Chicago, Ill. Oxyethylacetanilid.	606,288	June 28	2337		83	1853
Kline, Charles D. (See Prendergast, William H., assignor.)						
Kline, John, Nescopeck, Pa. Railway-tie.	601,810	Apr. 5	362	74	83	68
Kline, Lewis. (See Carroll, Fenton, Kline, and Seltzer.)						
Kline, Norman S., Brooklyn, N. Y. Car-seal.	600,916	Mar. 22	2322	529	82	1713
Kling, Isaac, Louisville, Ky. Sprocket driving mechanism.	601,570	Mar. 29	3448	783	82	1959
Kling, Peter M., St. Louis, Mo. Transom-sign.	614,397	Nov. 15	2090	481	85	1057
Klinger, Harry T. (See Strauser and Klinger.)						
Klingler, Aloysius H., Ridley Park, Pa. Brake for trolley-cars.	605,485	June 14	788	181	83	1524
Klingler, Gottlieb J., Santa Cruz, Cal. Table.	599,243	Feb. 15	1991	473	82	1013
Klock, Henry H. (See Mullen, Charles R., assignor.)						
Klock, William H. (See McDonald and Klock.)						
Kloeber, Charles E., Jr. (See Sharratts, David E., assignor.)						
Klogel, Karl S., New York, N. Y. Sewing-machine.	597,802	Jan. 25	2331	544 545	82	503
Kloman, Theodore W., New York, N. Y. Apparatus for starting and controlling electric motors.	610,712	Sept. 13	1028	237	84	1657
Klose Ball Caster Company. (See Klose, Karl A., assignor.)						
Klose, Karl A., Des Plaines, Ill. Ball-caster.	612,849	Oct. 25	2262	539	85	475
Klose, Karl A., assignor of one-half to W. K. Seward and R. Bolman, Butte, Mont. Sash lift and fastener.	597,199	Jan. 11	1291	302	82	267
Klose, Karl A., Des Plaines, assignor to Klose Ball Caster Company, Chicago, Ill. Ball-caster.	604,400	May 24	2158	485	83	1089
Klots, Henry D., Garden City, N. Y., assignor to Pendleton Manufacturing Company, Carbondale, Pa. Bobbin.	602,260	Apr. 12	1166	256	83	235
Klotz, Sidney, assignor of one-half to M. B. Simon, Chicago, Ill. Color-printing press.	606,891	July 5	465	99 100	84	92
Klunter, John, Phillipsburg, N. J. Convertible chair.	597,581	Jan. 18	1938	451	82	412
Kluze, Paul F. (See Kühn and Kluge.)						
Knaack, Rudolph, Stockton, Iowa. Water-regulator.	601,263	Mar. 29	2918	664	82	1854
Knap, Conrad C. S., London, England. Water-tube boiler.	606,155	June 21	2065	474	83	1780
Knap, John, and C. W. Duke, assignors to Grand Rapids Cycle Company, Grand Rapids, Mich. Crank-shaft bearing for bicycles.	607,055	July 12	785	171	84	171
Knapp, Edwin C., Syracuse, N. Y. Governor for steam-engines or other motors.	603,193	Apr. 26	2772	632	83	571
Knapp, Ewald, assignor to Kölner Wassermesser Werk, Gesellschaft mit Beschränkter Haftung, Cologne, Germany. Pneumatic gas-lighter.	615,717	Dec. 13	912	213	85	1604
Knapp, Fred H., and C. W. Blackstone, assignors to Cornell & Knapp Company, Adrian, Mich. Bottle-labeling machine.	613,686	Nov. 8	808	186 187	85	791
Knapp, George W., Baltimore, Md. Egg-poacher.	611,843	Oct. 4	438	105	85	87
Knapp, Judson N., Syracuse, N. Y. Tapping apparatus.	602,510	Apr. 19	1586	363	83	331
Knapp, Miland A., Minneapolis, Minn. Teeth-regulator.	597,582	Jan. 18	1941	451	82	412
Knapp, Philip, Jeannette, Pa. Skirt-supporter.	598,320	Feb. 1	443	106	82	686
Knapp, William H., Galesburg, Mich. Boat-propeller.	596,754	Jan. 4	532	122	82	103
Knause, John W., Providence, R. I. Combined collar-button and tie-retainer.	612,970	Oct. 25	2458	586	85	516
Knebel, Christian, St. Louis, Mo. Baker's peel.	604,619	May 24	2564	585	83	1164
Knecht, Arthur, et al. (See Parks, James H., assignor.)						
Knecht, Louis, Philadelphia, Pa. Heddle.	597,149	Jan. 11	1208	283	82	251
Knechtel, Jacob S., and R. G. Vincent, Hanover, Canada. Wire spring-mattress.	614,010	Nov. 8	1377	316	85	901



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Knee, Allison W., and J. W. Robinson, Humboldt; said Knee assignor to H. S. Sanders, Fort Dodge, Iowa. Eight-horse evener	611,492	Sept. 27	2488	574	84	1970
Kneedler, John D., Sioux City, Iowa, assignor of one-half to J. H. Ball, Oakland, Nebr. Coin-operated mechanism	606,463	June 28	2662	613	83	1917
Kneeland, Charles L., <i>et al.</i> (See Hartmann, William C., assignor.)						
Kneeland, Edwin J., Lansing, Mich. Refrigerator	611,013	Sept. 20	1565	360	84	1778
Kneeland, Remus A., Benton Harbor, Mich. Wheelbarrow	605,316	June 7	493	110	83	1446
Kneisly, Daniel W., Johnsville, Ohio. Mowing-machine	604,353	May 17	2081	466	83	1054
Knerr, Reuben, <i>et al.</i> (See Bonus, Peter, assignor.)						
Knetzger, Leonard, Du Quoin, Ill. Sprayer	613,905	Nov. 8	1208	276	85	867
Knickerbacker, John. (See Sulzman, Charles A., assignor.)						
Knickerbacker, John, Troy, N. Y. Multiple gate-valve	601,472	Mar. 29	3293	745	82	1926
Knieriemen, George, Camden, N. J. Dust-guard for bottle-stoppers	601,058	Mar. 22	2559	584	82	1759
Kniffin, Allen J., Schenectady, N. Y. Router	609,681	Aug. 23	2829	661	84	1251
Knight, Abraham H., Chapel, assignor of one-third to H. M. and H. W. Moyers, Shock, W. Va. Pruning implement	612,347	Oct. 11	1314	325	85	269
Knight, Alfred J. (See Thomas, Jesse B., assignor.)						
Knight, Alfred W., Cuckfield, England. Carriage-gear	613,803	Nov. 8	1044	237	85	836
Knight, David W., Newman, Ill. Safety attachment for elevators	603,644	May 10	742	165	83	761
Knight, Edward M., Brooklyn, N. Y. Filtering medium and making same	596,518	Jan. 4	103	23	82	22
Knight, Edward M., New York, N. Y. Combined filter and cooler	607,513	July 19	1815	377 378	84	391
Knight, Edward S., <i>et al.</i> (See Sabin, Chauncey R., assignor.)						
Knight, Ellwood T., assignor of two-thirds to J. T. Ahrens and R. G. Harmon, Wilmington, Del. Bottle-stopper	597,852	Jan. 25	2409	561	82	518
Knight, Frank B., Brooklyn, N. Y. Conveying apparatus	602,085	Apr. 12	854	186	83	174
Knight, Henry H., Jane Lew, W. Va. Metal egg-case	601,661	Apr. 5	67	13	83	14
Knight, Joseph P., Philadelphia, Pa. Bridle-bit	615,283	Dec. 6	117	31	85	1436
Knight, Thomas G., New York, N. Y. Account-keeping book	610,451	Sept. 6	578	128	84	1540
Knight, William B., <i>et al.</i> (See Sabin, Chauncey R., assignor.)						
Knights, Frederic J. (See Armstrong and Knights.)						
Knispel, Christian, W., and J. C., Newark, N. J. Cooling device for bars or refrigerators	600,227	Mar. 8	1132	258	82	1456
Knispel, John C. (See Knispel, Christian, W., and J. C.)						
Knispel, William. (See Knispel, Christian, W., and J. C.)						
Knittel, David G., Pittsburg, Pa. Package-carrier for bicycles	610,404	Sept. 6	506	110	84	1536
Knobeloch, Frank, assignor, by mesne assignments, to Kennard Manufacturing Company, Dayton, Ohio. Paper box	606,671	July 5	66	14	84	15
Knobeloch, Frank, assignor, by mesne assignments, to Kinnard Manufacturing Company, Dayton, Ohio. Paper box	616,473	Dec. 27	2352	546	85	1925
Knoble, Andrew M. (See Kuersten, Hugo E., assignor.)						
Knoble, John F. (See Snedeker, Charles H., assignor.)						
Knobloch, Johann F. R., Hamburg, Germany. Tidal motor	608,203	Aug. 2	66	17, 18	84	668
Knoblock, John C., South Bend, Ind. Pulley	605,104	June 7	65	19	83	1364
Knoedler, Fred, Economy, Pa. Rotatable book-rest or desk	611,916	Oct. 4	558	136	85	110
Knoll, Jonas L., Lebanon, Pa. Bicycle-support	610,186	Sept. 6	65	13	84	1453
Knoll, William, Jersey City, N. J. Device for chalking tips of billiard-cues	602,541	Apr. 19	1642	374	83	341
Knoop, Josiah, Casstown, Ohio. Animal-trap	607,691	July 19	2134	448	84	449
Knoop, Josiah, Casstown, Ohio. Harrow	612,112	Oct. 11	928	225	85	192
Knopping, Louis H., New York, N. Y. Bicycle tool-case	604,988	May 31	3190	734	83	1303
Knorpp, Philip, Jr., Chicago, Ill. Pneumatic vehicle-tire	610,606	Sept. 13	858	197	84	1622
Knorr, Ludwig, Jena, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Morpholin and making same	615,488	Dec. 6	504		85	1509
Knottnerus, Henry E., assignor to H. C. Neun, St. Louis, Mo. Automatic gaging-faucet	606,559	June 28	2835	653	83	1951
Knowles, Edward R. (See O'Connor and Knowles.)						
Knowles, Elmer L. (See Meigs, Nathan J., assignor.)						
Knowles, John H., Philadelphia, Pa. Mechanism for separately removing sheets of paper, &c	601,266	Mar. 29	2919	665 666 667	82	1855
Knowles, Mary A., Baildon, England. Car-coupling	604,586	May 24	2512	571	83	1153
Knowlton, Dallas, Washington, D. C. Match-safe	602,624	Apr. 19	1787	408	83	368
Knox, Bryce M., Kilbirnie, Scotland. Winding machinery for thread, yarn, &c	607,692	July 19	2135	449	84	449
Knox, George F., Chicago, Ill., assignor of one-half to Confectioners Machinery and Manufacturing Company, Minneapolis, Minn. Fluid-pressure regulator	596,601	Jan. 4	255	57	82	50
Knox, James E. (See Jones and Gillies, assignors.)						
Knox, William S., Conesville, Iowa. Churn	612,737	Oct. 18	2028	482	85	412
Knudsen, Harald E., <i>et al.</i> (See Knudsen, Jacob B., assignor.)						
Knudsen, Henning M., Anaconda, Mont. Bench-vise	599,613	Feb. 22	2716	635	82	1176
Knudsen, Jacob B., assignor of one-half to F. H. Taylor and H. E. Knudsen, Chicago, Ill. Means for operating electric switches and extinguishing sparks thereof	597,150	Jan. 11	1210	283	82	251
Knudsen, Karsten, assignor to American Electric Vehicle Company, Chicago, Ill. Truss-frame for electric vehicles	611,258	Sept. 27	2026	467 468	84	1885
Knudsen, Karsten, assignor to American Electric Vehicle Company, Chicago, Ill. Electric vehicle	613,420	Nov. 1	380	88	85	688
Knudtson, Thomas, Malta, assignor of one-half to T. O. Berg, Lee, Ill. Disk-sharpening device	614,112	Nov. 15	1554	356	85	957
Knupp, Michael, assignor of one-half to S. S. Frederick, Toledo, Ill. Thill-coupling	609,510	Aug. 23	2507	586	84	1189
Knutson, Alfred M., Galesburg, Ill. Electric-arc lamp	603,383	May 3	235	53	83	646
Koblentz, Martin. (See Fuchs, Gustav, assignor.)						
Koch, Alexander, Vienna, Austria-Hungary, assignor of three-fourths to E. W. Gillett and I. H. Brown, Chicago, Ill. Lock or guard for wheels of vehicles	599,848	Mar. 1	327	73	82	1274
Koch, Alphonse, <i>et al.</i> (See Plaut, Louis, assignor.)						
Koch, Christian H. C., Chicago, Ill. Lubricating device	602,854	Apr. 26	2196	498	83	462
Koch, Elias, <i>et al.</i> (See Plaut, Louis, assignor.)						
Koch, Friedrich A. (See Pattberg, Christian, assignor.)						
Koch, Gustav, assignor to J. Fritz and M. Koch, New York, N. Y. Bottle-stopper	598,050	Jan. 25	2745	640	82	582
Koch, Gustave, assignor to H. C. Blye, New York, N. Y. Stopper for bottles or other receptacles	608,407	Aug. 2	433	95	84	742
Koch, Gustave, assignor to H. C. Blye, New York, N. Y. Stopper for bottles or other receptacles	608,408	Aug. 2	435	96	84	742
Koch, Henry. (See Alberswerth, Henry, assignor.)						
Koch, Henry E., Hartington, Nebr. Swinging gate	614,011	Nov. 8	1379	316	85	902
Koch, Isadore, <i>et al.</i> (See Lée, Caleb, assignor.)						
Koch, Jacob F., New Athens, assignor to himself, and Harrison Machine Works, Belleville, Ill. Grain-separator	605,437	June 7	718	161	83	1491



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Koch, Mathilda, <i>et al.</i> (See Koch, Gustav, assignor.)						
Koch, Valentin, Geneva, Switzerland. Inhaling apparatus	608,873	Aug. 9	1288	300 301	84	924
Koch, William, Lawrenceburg, Ind. Clothes-line holder	605,607	June 14	1004	231	83	1564
Kocherhans, Georg, Rötteln, Germany. Apparatus for indicating number of weft-shots in woven fabrics	611,413	Sept. 27	2342	540	84	1943
Kochs, Benjamin, assignor to Schoenthaler Manufacturing Company, St. Louis, Mo. Packing-box	601,571	Mar. 29	3450	784	82	1959
Koebke, Richard. (See Doersch, George M., assignor.)						
Koehler, Adolph, New York, N. Y. Air-ship	605,438	June 7	719	162	83	1491
Koehler, Emil, New York, N. Y. Tile molding	609,940	Aug. 30	3264	762	84	1349
Koehler, Frank G., assignor to Laclede Car Company, St. Louis, Mo. Car-brake	600,081	Mar. 1	826	190	82	1375
Koehler, Frank G., assignor to Laclede Car Company, St. Louis, Mo. Car-truck	601,022	Mar. 22	2499	568 569	82	1746
Koehler, Walter J., Broken Hill, New South Wales, assignor to Broken Hill Proprietary Company, Limited, Melbourne, Victoria. Treatment of zinc and copper ores	611,917	Oct. 4	560	136	85	111
Koehne, Frank, <i>et al.</i> (See Koehne, Ira C., assignor.)						
Koehne, Ira C., assignor to F. Koehne and A. H. McAlpine, Columbus, Ohio. Service-box	616,542	Dec. 27	2477	574 575	85	1948
Koelkebeck, Carl W. A., and J. K. Smith, Pittsburg, Pa. Machine for cutting and expanding pipes	604,664	May 24	2635	604	83	1177
Koelle, William G., New York, N. Y. Stand	611,754	Oct. 4	281	67	85	57
Koenig, Carl. (See Krayn and Koenig.)						
Koenig, Carl, Berlin, Germany. Primary battery	614,012	Nov. 8	1380	316	85	902
Koenig, Emil, and M. L. Erlanger, New York, N. Y. Automatic carbonating apparatus	610,062	Aug. 30	3484	808	84	1393
Koenig, Emil, and M. L. Erlanger, New York, N. Y. Apparatus for aerating liquids or beverages	613,376	Nov. 1	283	65	85	672
Koenig, Francois. (See Meissner and Koenig.)						
Koenig, Lorenz. (See Karr, Koenig, and Woods.)						
Koepfel, John H., Egypt Mills, Mo. Wire-stretcher	596,888	Jan. 4	746	176	82	146
Koetschet, Joseph, St. Fons, assignor to La Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier, Lyons, France. Making aldehydo-benzoic acid	607,056	July 12	786		84	172
Koetter, John F. W., St. Louis, Mo. Motor	605,439	June 7	721	162	83	1492
Kohart, Frank C. (See Bolles, Archibald L., assignor.)						
Kohinka, Martin F., Scotia, Cal. Lineway	601,099	Mar. 22	2619	597	82	1770
Köhl, Alexis, Copenhagen, Denmark. Bicycle-lock	604,536	May 24	2421	551	83	1135
Kohl, Charles A., Cleveland, Ohio. Wringer	604,765	May 31	2830	647	83	1232
Kohl, Hugo, Dusseldorf, Germany. Separator for steam and water	607,441	July 19	1512	322	84	325
Kohl, Samuel M. W., Philadelphia, Pa. Shutter-fastener	602,661	Apr. 19	1863	423	83	383
Kohlbraker, Francis H., assignor of one-half to M. Williams, Shamokin, Pa. Automatic stop for hoists	601,515	Mar. 29	3369	763 764	82	1942
Kohler, Alois, New York, N. Y. Miter-clamp	600,370	Mar. 8	1368	312	82	1500
Kohler, Alois, New York, N. Y. Dadoing and tenoning machine	613,156	Oct. 25	2745	647	85	573
Kohler, Alois, assignor of one-half to G. Stark, New York, N. Y. Wood-embossing machine	612,348	Oct. 11	1345	325	85	269
Kohler, Ignatz, Lubeck, Germany. Automatic railway-car coupling	612,208	Oct. 11	1085	260	85	222
Kohler, Louis C., Milwaukee, Wis. Pneumatic traveler for pipes or conduits	599,713	Mar. 1	66	15	82	1229
Kohlmeier, Emil J., Cleveland, Ohio. Coffee-pot	616,241	Dec. 20	1917	444	85	1818
Kohlmyer, Henry, Lorain, Ohio. Dust-pan	597,986	Jan. 25	2643	618	82	563
Kohn, Fritz, <i>et al.</i> (See Rausch, Rudolf, assignor.)						
Kohn, Isidor, Chicago, Ill. Filter	614,558	Nov. 22	2370	542	85	1122
Kohn, Johann. (See Duffek, Arthur, assignor.)						
Kohne, Edward W. (See Bowman and Kinney, assignors.)						
Kohnert, Otto L., Chicago, Ill. Pneumatic tire	597,831	Jan. 25	2372	554	82	510
Kolb, Bennett J., Florence, and M. Kolb, Newport, Ky. Window-screen	604,620	May 24	2565	585	83	1164
Kolb, Charles W., Philadelphia, Pa. Door and light for bakers' ovens	598,941	Feb. 15	1484	354	82	917
Kolb, Emil F. and E. A., Philadelphia, Pa. Silverware case or chest	610,356	Sept. 6	412	88	84	1519
Kolb, Eugene A. (See Kolb, Emil F. and E. A.)						
Kolb, Jacob, Wichita, Kans. Combined plow and harrow	607,178	July 12	1018	221	84	214
Kolb, Michael. (See Kolb, Bennett J. and M.)						
Kolesar, Joseph, Newark, N. J. Toy safe	613,450	Nov. 1	428	98	85	698
Koll, Henry F., South Omaha, Nebr. Combination-tool	596,519	Jan. 4	105	24	82	22
Kollenberg, Frederick G., assignor of one-half to J. J. Sweeney, Owensborough, Ky. Mixer for liquids	612,349	Oct. 11	1347	325	85	270
Kollmyer, John A., assignor of nine-twentieths to G. D. Rand, Keokuk, Iowa. Rotary cut-off valve	598,153	Feb. 1	132	30, 31	82	628
Kollock, George C. (See Baker, James E., assignor.)						
Kölner Wassermesser Werk, Gesellschaft mit Beschränkter Haftung. (See Knapp, Ewald, assignor.)						
Koloseus, Max, Chicago, Ill. Fire-escape	604,989	May 31	3192	735	83	1303
Komow, Nicolas, New York, N. Y. Cloth-cutting machine	611,861	Oct. 4	468	112 113	85	94
Köneman, William A., London, England, assignor to C. Könemann, Cologne-Ehrenfeld, Germany. Wheel having pneumatic hub	599,907	Mar. 1	443	98	82	1297
Könemann, Carl. (See Köneman, William A., assignor.)						
König, Ernst assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Basic red disazo dye	602,637	Apr. 19	1814		83	373
König, Ernst, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Basic yellow disazo dye	602,638	Apr. 19	1814		83	373
König, Ernst, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Coppery-brown dye	602,639	Apr. 19	1815		83	373
König, Ernst, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Red-violet basic disazo dye	602,640	Apr. 19	1815		83	373
König, Ernst, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Brown disazo dye	602,641	Apr. 19	1816		83	373
Koons, David, <i>et al.</i> (See Snider, Gabriel F., assignor.)						
Koons, Henry, <i>et al.</i> (See Snider, Gabriel F., assignor.)						
Koons, John H., Seattle, Wash. Screen for doors or windows	607,382	July 12	1403	299	84	288
Koontz, John A., Centerville, Iowa. Ice-loader	608,686	Aug. 9	931	214	84	859
Koopman, John, Falmouth, Mich. Swarm-preventer for beehives	608,261	Aug. 2	157	39	84	685
Koorie, Hanna, New York, N. Y. Hair-tonic	606,723	July 5	160		84	33
Koosch, Henry M. (See Peate and Koosch.)						
Kopka, Emil M., Adrian, Mich. Fence	597,583	Jan. 18	1942	451	82	413
Koplin, Orie P. (See Claffey and Koplin.)						
Kopp, August, Hamilton, Ohio. Beer-tapping implement	603,278	May 3	61	15	83	613



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Kopp, John B. (See Morell and Kopp.)						
Kops, Daniel, New York, N. Y. Corset	611,063	Aug. 30	3487	808	84	1394
Kops, Daniel, New York, N. Y. Bustle-corset	611,068	Sept. 20	1654	378	84	1795
Korb, Fridrick W., Cleveland, Ohio. Device for treating rectal diseases	611,345	Mar. 29	3083	696	82	1886
Korbel, John, Los Angeles, Cal. Doughnut or fried-cake turner	616,420	Dec. 20	2239	522	85	1882
Kordenat, Carl, Reedsburg, Wis. Bicycle-support	612,666	Oct. 18	1912	452	85	390
Korell, Henry, Hamilton, Ohio. Table	604,766	May 31	2832	647	83	1233
Korn, Isaac. (See Creider, Simon S., assignor.)						
Korn, Isaac, assignor of one-half to S. S. Creider, Sterling, Ill. Corn-husker	610,713	Sept. 13	1030	238	84	1658
Korn, John C., Wilkes-Barré, Pa. Flask	599,614	Feb. 22	2718	635	82	1176
Kornmann, John H. (See Furey, Cyrus R., assignor.)						
Kortright, George W., Sioux City, Iowa. Telescopic clamp	605,447	June 7	735	166	83	1494
Kortum, Albert, Brooklyn, assignor to Zucker & Levett & Loeb Company, New York, N. Y. Polishing-wheel	605,641	June 14	1074	246	83	1577
Kortüm, Wilhelm, Berlin, Germany. Device for sterilizing milk, &c	607,802	July 19	2347	495 496	84	491
Kosanke, Erich, C. Fuhr, and B. Krausse, Wilmersdorf, assignors to H. Eichwede, Berlin, Germany. Apparatus for stating time and number of telephonic conversations	597,003	Jan. 11	958	227	82	203
Koser, Georg, Geislingen, assignor to H. Bechmann, Bamberg, Germany. Producing ice	609,814	Aug. 30	3047	712	84	1306
Kost, Luigi, and E. Guocchi, Milan, Italy. Fastening device for stoppers of bottles, &c	609,815	Aug. 30	3048	713	84	1306
Kothe, Richard. (See Israel and Kothe.)						
Kott, Anthony, Detroit, Mich. Saw-table gage	602,261	Apr. 12	1167	257	83	235
Kott, Gustav E., Chemnitz, Germany. Sewing-machine	611,579	Sept. 27	2650	611	84	2002
Kotten, Herman G., New York, N. Y. Pneumatic hammer	605,486	June 14	790	181	83	1325
Köttgen, Karl A. B. D., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Controlling device	610,064	Aug. 30	3488	808	84	1394
Kouns, Moses W., assignor to Ohio Cultivator Company, Bellevue, Ohio. Disk harrow	615,718	Dec. 13	914	213	85	1605
Kountz, Harry G., Wooster, Ohio. Leveler attachment for cultivators	615,284	Dec. 6	118	32	85	1436
Kowaleff, Wassily, Oofa, Russia. Pneumatic spring	598,102	Feb. 1	57	13, 14	82	613
Krabach, Frank X., Defiance, Ohio. Laundry-fork	597,987	Jan. 25	2645	618	82	563
Kraber, Charles L., Quincy, Ill. Clothes-line holder	615,859	Dec. 13	1155	270	85	1651
Kracht, William F., Mount Clemens, Mich. Fall-board for pianos	602,808	Apr. 19	2112	476	83	430
Kraemer, Frank, assignor to A. Bloch and S. Kurz, Chicago, Ill. Device for thawing earth for placer-mining	614,227	Nov. 15	1763	404	85	996
Kraemer, Thomas, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine cabinet	600,538	Mar. 15	1696	388	82	1582
Krauter, August, Newark, N. J. Punch	604,564	May 24	2474	562	83	1146
Kraft, Theodore H. (See Healy and Kraft.)						
Krah, Armin, Berlin, Germany. Machine for perforating paper, &c	609,682	Aug. 23	2830	661	84	1251
Krahe, Walter F., New York, N. Y. Spoke-grip	613,283	Nov. 1	109	26	85	637
Krahenbuhl, Ernest, San Rafael, Cal. Dial-train for watches or other purposes	615,719	Dec. 13	916	213 214	85	1005
Krajewski, Ryszard. (See Lubinski and Krajewski.)						
Krall, Bartolomay, Boston, Mass. Draft-cock	608,874	Aug. 9	1289	301	84	924
Kramer, Camillo, Albany, N. Y. Pipe-wrench	600,494	Mar. 8	1610	368	82	1546
Kramer, George J., and L. B. Cartter, Las Animas, Colo. Needle-case	597,004	Jan. 11	961	228	82	203
Kramer, George N., assignor of one-half to C. J. Duddleston, Terre Haute, Ind. Collar and cuff edger	607,179	July 12	1019	221	84	214
Kramer, John M., Athens, Pa. Burglar-alarm	601,150	Mar. 22	2700	621	82	1786
Kramer, Louis, St. Louis, Mo. Hydraulic elevator	603,566	May 3	591	131	83	715
Kramer, Philip, New York, N. Y. Dumping truck or car	609,816	Aug. 30	3049	713	84	1306
Kramme, Henry, Baltimore, Md. Mechanical movement	597,200	Jan. 11	1292	302	82	268
Krantz, Hubert, New York, N. Y. Electrical-conduit box	609,356	Aug. 16	2216	524	84	1116
Kraske, Victor. (See Bostwick, Kraske, and Lorang.)						
Kratzmueller, Louis R. (See Frank and Kratzmueller.)						
Kraus, Gustav, New York, N. Y. Necktie	600,539	Mar. 15	1698	389	82	1582
Kraus, Robert W. J., New York, N. Y. Stamp-affixing machine	615,394	Dec. 6	336	79, 80	85	1478
Kraus, Samuel, <i>et al.</i> (See Kirchoff, Theodor, assignor.)						
Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Penholder	606,841	July 5	390	83	84	78
Krause, Arthur, Jersey City, N. J. Brick-cleaning machine	612,667	Oct. 18	1913	453	85	390
Krause, August W., Los Angeles, Cal. Self-measuring tank	597,116	Jan. 11	1161	273	82	242
Krause, Edward N. (See Curry, John F., assignor.)						
Krause, Feodor, and K. Heine, Newark, N. J. Candle-holder for Christmas trees	601,397	Mar. 29	3168	716	82	1902
Krause, Hugo C., Chicago, Ill., assignor, by mesne assignments, to Gorin & Company, Incorporated, of Illinois. Attachment for type-writers	613,421	Nov. 1	382	89	85	688
Krauss, George C., Columbus, Ohio. Lamp or lantern	596,780	Jan. 4	575	132	82	111
Krauss, Theodore. (See Anderson and Krauss.)						
Krausse, Bruno. (See Kosanke, Fuhr, and Krausse.)						
Krauth, Albert, Hamilton, Ohio. Music-stand	597,722	Jan. 25	2179	509	82	474
Krauth, Albert, Hamilton, Ohio. Autographic register	611,259	Sept. 27	2028	468	84	1886
Krayn, Robert, and C. Koenig, Berlin, Germany; said Krayn assignor to said Koenig. Galvanic element	611,175	Sept. 20	1862	429	84	1835
Krebs, Clifton E., Baltimore, Md. Hook	601,267	Mar. 29	2947	667	82	1861
Krebs, Henrik J., Wilmington, Del. Recovering spent tannage liquors	613,157	Oct. 25	2748		85	573
Krebs, Peter, Shawnee, Ohio. Bicycle-brake	604,587	May 24	2513	571	83	1153
Krecke, Friedrich. (See Rosenberg and Krecke.)						
Kreffit, Friedrich, Berlin, Germany. Hydrostatic vessel propelling and steering apparatus	602,224	Apr. 12	1108	243	83	223
Krefting, Axel, Christiania, Norway. Treating seaweed	598,790	Feb. 8	1230		82	853
Kreider, Charles E., Logansport, Ind. Elevator attachment for lawn-mowers	600,005	Mar. 1	594	136 137	82	1325
Kreitmayer, Adalbert, Munich, Germany. Protecting oil-paintings	613,011	Oct. 25	2519	600	85	528
Krekeler, Karl, and A. Blank, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Blue-black trisazo dye	602,855	Apr. 26	2197		83	462
Krekeler, Karl, and A. Israel, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Black trisazo dye	602,856	Apr. 26	2198		83	462
Krekeler, Karl, and E. Martz, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Brown trisazo dye	602,858	Apr. 26	2201		83	463
Krekeler, Karl, and E. Martz, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Brown trisazo dye	603,090	Apr. 26	2605		83	538
Krekeler, Karl, and E. Martz, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Green trisazo dye	603,645	May 10	743		88	761
Krekeler, Karl, A. Israel, and A. Blank, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Black trisazo dye	602,857	Apr. 26	2200		83	462
Krekeler, Karl, E. Martz, and A. Israel, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Gray trisazo dye	603,646	May 10	744		83	761



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Krekeler, Karl, E. Martz, and A. Israel, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Green trisazo dye	603,647	May 10	746		83	762
Krekeler, Karl, E. Martz, and A. Israel, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Brown trisazo dye	603,648	May 10	747		83	762
Krellenstein, Bernard, assignor of one-half to M. Crystal, New York, N. Y. Folding bed.	611,128	Sept. 20	1779	408	84	1819
Kremser, John, Duquesne, Pa. Lowering device	602,457	Apr. 19	1503	343	83	315
Krentler, Edwin O. and G. A., Detroit, Mich. Last	603,790	May 10	988	221	83	809
Krentler, George A. (See Krentler, Edwin O. and G. A.)						
Kreppel, Samuel L. (See Bodnar and Kreppel.)						
Kress, John, New York, N. Y. Horseshoe-pad	599,908	Mar. 1	444	98	82	1298
Kretz, Georg F., Karlsruhe, Germany. Dredging-machine	616,675	Dec. 27	2738	636	85	1997
Krieger, Alfred W., assignor, by mesne assignments, of one-half to F. Dennis, St. Louis, Mo. Saw-clamp	612,502	Oct. 18	1598	382	85	331
Krieger, Andrew, and J. Coyle, assignors to W. Langsenkamp, Jr., Indianapolis, Ind. Fuel-gas mixer	604,116	May 17	1635	367	83	967
Krieger, Louis, Paris, France. Electrically-self-propelling vehicle	607,997	July 26	2719	580	84	579
Kries, John F., Charleston, W. Va. Bottle and cap	603,958	May 10	1292	581	83	808
Kribs, Seraphin. (See Brookfield and Kribs.)						
Kribs, Seraphin, Brooklyn, assignor to W. Brookfield, New York, N. Y. Press for making insulators	596,682	Jan. 4	396	89, 90	82	79
Kroder, John, and H. Reubel, New York, N. Y. Support for curtain poles, rods, &c	600,006	Mar. 1	595	137	82	1326
Kroeber, Thilo. (See Ott and Kroeber.)						
Kroeger, Bernard, White Plains, N. Y. Piano	610,065	Aug. 30	3490	809	84	1394
Kroell, Marzel, Louisville, Ky. Safety-envelop	614,728	Nov. 22	2696	614	85	1183
Kroencke, Gustav, Toledo, Ohio. Automatically-operated weather-strip	615,189	Nov. 29	3539	819	85	1366
Kroesing, Charles, Chilton, Wis. Eaves-trough hanger	605,882	June 21	1549	355	83	1685
Krogstad, Ole L., assignor of one-half to A. Hovland, Hudson, Wis. Oscillating-piston steam-engine	611,493	Sept. 27	2489	574	84	1971
Krohn, Gustave A., Goldgulch, Cal. Vehicle-wheel hub	601,853	Apr. 5	457	92	83	85
Kroker, Gustav, Ohligs, Germany. Combined napkin ring and holder	605,487	June 14	792	181	83	1525
Kroll, John C. (See Bales, Alanson H., assignor.)						
Kromm, Louis H., Baltimore, Md. Fertilizer-distributor	609,440	Aug. 23	2367	558	84	1164
Kron, Georg, Copenhagen, Denmark. Burner for petroleum glow-lamps	615,067	Nov. 29	3351	769	85	1325
Kröning, Emil, and E. Benschel, Magdeburg, Germany. Gynecological instrument	597,988	Jan. 25	2646	618	82	563
Kronosky, Albert. (See Gebhardt, William, assignor.)						
Krop, Jacobus. (See Thomassen and Krop.)						
Kroscher, Charles. (See Therien, Nelson, assignor.)						
Krotz, Alvaro S., assignor to O. S. Kelly, Springfield, Ohio. Electric conveying system	603,606	May 3	661	147	83	730
Krotz, Alvaro S., assignor to O. S. Kelly, Springfield, Ohio. Conveying apparatus	603,607	May 3	669	148	83	731
Krotz, Alvaro S., Springfield, Ohio, W. P. Allen, Chicago, Ill., and O. S. Kelly, Springfield, Ohio. Conductor and contact device for electric railways	602,336	Apr. 12	1292	149	83	260
Krub, Louis, St. Ansgar, Iowa. Weeder	598,251	Feb. 1	317	150	82	662
Krueger, George. (See Schry, Harry A., assignor.)						
Krueger, Henry F., Neenah, Wis. Pivot-holder	613,687	Nov. 8	814	286	85	792
Krueger, Louis, Milwaukee, Wis. Flue-cleaner for boilers	597,421	Jan. 18	1666	149	82	357
Krug, George B., Goodfarm, Ill. Conveyor	597,376	Jan. 11	1591	287	82	327
Krug, Philip F. (See Unger and Krug.)						
Krug, Philip F., assignor of one-half to E. Unger, New York, N. Y. Electric-arc lamp	601,268	Mar. 29	2948	73	82	1861
Krug, William, McFarland, Wis. Whiffletree	616,117	Dec. 20	1659	388	85	1766
Kruger, Edward H., Elizabeth City, N. C. Shingle-sawing machine	606,422	June 28	2598	599	83	1904
Krum, Charles L. (See McClatchey and Krum.)						
Krummel, Louis C., Chicago, Ill. Bicycle-chain	607,752	July 19	2232	472	84	468
Krumscheid, Peter, Boston, Mass. Cushioned horseshoe	602,387	Apr. 12	1380	309	83	278
Krumsoy, William E. (See Neuhs, Werner, assignor.)						
Krupp, Franz, Solingen, Germany. Scissors	614,872	Nov. 29	2960	680	85	1250
Krupp, Fried. (See Resow, Adolf, assignor.)						
Krupp, Fried. (See Ulrich, Wilhelm, assignor.)						
Kruppa, Karl, and O. Lehrer, Fort Reno, Okla. Ter. Enlargeable telescopic case or traveling-bag	606,221	June 28	2211	508	83	1827
Kruse, Edward C., St. Louis, Mo. Adjustable feed for grinding-rolls	601,572	Mar. 29	3450	721	82	1959
Kruse, Edward W., Higginsville, Mo. Plow-clevis	611,690	Oct. 4	173	42	85	36
Kruse, Ernest, Chicago, Ill. Device for detecting sediment in pipes	598,321	Feb. 1	444	106	82	686
Krutsch, Willis W., Coffeyville, Kans., assignor, by mesne assignments, of three-fourths to W. J. Dunklin. Staple-puller	600,082	Mar. 1	827	191	82	1376
Kruzan, James M., Prairieton, Ind. Sled-brake	599,566	Feb. 22	2629	616	82	1159
Kryder, Henry W., Clintondale, Pa. Ladder	611,204	Sept. 20	1911	441	84	1843
Kubasch, Emil, Dresden, Germany. Automatic window-closer	605,642	June 14	1075	247	83	1577
Kubierschky, Martin T. A., Berlin, Germany, assignor to General Electric Company, of New York. Electric railway	598,731	Feb. 8	1143	275	82	836
Kuchel, Joseph C. (See Wilson, Unger, Muma, Brosius, and Kuchel.)						
Kuchel, Joseph C. (See Wilson, Muma, Unger, Schneckloth, Brosius, and Kuchel.)						
Kuehn, George J., Decatur, Ala. Baling-press	614,961	Nov. 29	3140	720	85	1287
Kuersten, Hugo R., assignor to A. M. Knoble, Chicago, Ill. Filter	605,883	June 21	1550	721	83	1685
Kugbler, John H., Chicago, Ill. Combination-oven	613,043	Oct. 25	2566	356	85	537
Kugbler, Thomas A., and J. Gomes, New York, N. Y. Hydraulic-pressure pump	604,767	May 31	2932	609	83	1233
Kuhlhoff, William E., et al. (See McCallum, Daniel W., assignor.)						
Kuhlmann, Adolph F., La Crosse, Wis. Car-coupling	610,814	Sept. 13	1217	647	84	1694
Kühn, Albin, Heidelberg, Germany. Fireproof plastering-support	606,387	June 28	2524	280	83	1888
Kuhn, Charlie E., Johnstown, Pa. Combined article of household furniture	597,989	Jan. 25	2647	585	82	563
Kuhn, Charlie E., Mont Alto, Pa. Combination article for household use	616,337	Dec. 20	2085	618	85	1851
Kuhn, Etienne W., Paris, France. Process of and apparatus for sterilizing liquids	597,082	Jan. 11	1102	619	82	231
Kuhn, Gustave. (See Broich, Cornelius H., assignor.)						
Kuhn, John H., Massillon, Ohio. Railway-rail connection	615,028	Nov. 29	3267	486	85	1310
Kühn, Paul A., and P. F. Kluge, Burgstadt, Germany. Multiple sewing-machine	609,887	Aug. 30	3173	261	84	1332
Kühn, Richard P., Alexandria, Va. Formaldehyde-lamp	599,849	Mar. 1	328	743	82	1275
Kühn, Rudolf, Rorschach, Switzerland. Generator for acetylene gas	600,727	Mar. 15	2011	74	82	1641
Kuhne, Adolph, assignor of one-half to J. C. Meeks, New York, N. Y. Gas-regulator	605,168	June 7	197	458	83	1388
Kuhne, Ernest, New York, N. Y. Drill	616,118	Dec. 20	1660	50	85	1766
Kühne, Paul, assignor to Staten Island Construction Company, Stapleton, N. Y. Lathing.	604,698	May 24	2710	388	83	1191



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Kühne, Paul, assignor to Staten Island Construction Company, Stapleton, N. Y. Skeleton structure for fireproof partitions.....	606,348	June 28	2449	567	83	1875
Kühne, Paul, assignor to Staten Island Construction Company, New York, N. Y. Fireproof floor and ceiling.....	613,158	Oct. 25	2750	648	85	574
Kühne, Paul, assignor to Staten Island Construction Company, New York, N. Y. Fireproof partition-wall.....	613,159	Oct. 25	2751	648	85	574
Kulage, Joseph J., St. Louis, Mo. Blank for negotiable instruments.....	600,917	Mar. 22	2323	529	82	1713
Kullberg, Martin L., Brooklyn, N. Y. Curtain-roller attachment.....	596,815	Jan. 4	635	146	82	123
Kummer, Charles, and L. Bertrand, Easton, Pa. Damper-governor.....	600,966	Mar. 22	2399	547	82	1729
Kummer, Frank, Cincinnati, Ohio. Tricycle.....	598,322	Feb. 1	445	106	82	686
Kumpf, William, Great Falls, Mont. Banjo attachment.....	600,918	Mar. 22	2325	529	82	1713
Kundtz, Theodor, Cleveland, Ohio. Sewing-machine cabinet.....	607,860	July 26	2484	527	84	534
Kundtz, Theodor, and J. Gedeon, Cleveland, Ohio; said Gedeon assignor to said Kundtz. Sewing-machine table.....	607,861	July 26	2485	527	84	534
Kundtz, Theodor, and A. Eiben, Cleveland, Ohio; said Eiben assignor to said Kundtz. Sewing-machine table.....	607,862	July 26	2487	527	84	535
Kunkel, Frederick J., assignor to J. N. Kunkel & Son, Baltimore, Md. Rack and pinion.....	602,403	Apr. 12	1409	318	83	284
Kunkel, John A., New York, N. Y. Cleaning and drying eggs.....	604,621	May 24	2567	-----	83	1164
Kunkel & Son, John N., (See Kunkel, Frederick J., assignor.)						
Kunkle, John C. F., Renovo, Pa. Tool for laying gold-leaf.....	602,948	Apr. 26	2364	539	83	494
Kunkle, John C. F., Renovo, Pa. Tool for laying gold-leaf.....	602,949	Apr. 26	2365	539	83	495
Kunkle, John P., Chicago, Ill. Cushion-tire.....	602,907	Apr. 26	2285	521	83	478
Kunstweberei Claviez & Company. (See Claviez, Emil, assignor.)						
Kunstweberei, Claviez & Co., Gesellschaft mit Beschränkter Haftung. (See Claviez, Emil, assignor.)						
Kunz, Henry M., New York, N. Y. Hose-hydrant.....	609,104	Aug. 16	1766	420	84	1026
Kunz, Henry M., New York, N. Y. Hydrant.....	609,105	Aug. 16	1769	421	84	1027
Kunzel, Charles A., Jr., Hoboken, N. J. Apparatus for burning hydrocarbon or other oils.....	607,863	July 26	2490	528	84	535
Kunzler, John W., Pittsburg, Pa. Glass-mold.....	599,939	Mar. 1	498	112	82	1307
Kuphal, Otto, New York, N. Y. Chimney-cowl.....	603,881	May 10	1166	263	83	844
Kurda, Carl, assignor to Elektrizitäts Aktiengesellschaft, vormals Schuckert & Co., Nürnberg, Germany. Polyphase-current transformer.....	600,228	Mar. 8	1134	258 259	82	1456
Kurda, Karl. (See Möllinger and Kurda.)						
Kurka, Richard, Vienna, Austria-Hungary. Filter for waterworks.....	597,680	Jan. 18	2106	493	82	442
Kurrie, George R., Philadelphia, Pa. Combined cap and girder-support.....	609,441	Aug. 23	2369	558	84	1164
Kursheedt Manufacturing Company. (See Dempsey, Patrick J., assignor.)						
Kursheedt Manufacturing Company. (See Donne, Ernest F., assignor.)						
Kursheedt Manufacturing Company. (See Groebli, Joseph A., assignor.)						
Kursheedt Manufacturing Company. (See Taylor, George H., assignor.)						
Kursheedt Manufacturing Company. (See Waitzfelder, Albert S., assignor.)						
Kurth, William, assignor to P. Hennig, Casselton, N. D. Breech-loading firearm.....	600,834	Mar. 15	2180	497	82	1673
Kurtz, George. (See Lotz, Alfred F. C., assignor.)						
Kurtz, John A., Allegheny, Pa. Rotating polisher.....	614,873	Nov. 29	2961	680	85	1250
Kurtzig, Heinrich, Inowrazlaw, Germany. Safety device for lifts.....	607,998	July 26	2723	581	84	579
Kurz, Otto, Chicago, Ill. Mop holder and wringer.....	605,961	June 21	1710	392	83	1714
Kurz, Sol, et al. (See Kraemer, Frank, assignor.)						
Kuser, Fred, assignor of one-half to R. L. Ward, New York, N. Y. Grain-chute.....	610,066	Aug. 30	3491	809	84	1394
Kuss, Henry F., assignor to himself and Q. R. Hessel, Escanaba, Mich. Spout-hoisting apparatus.....	609,683	Aug. 23	2832	661	84	1252
Kuss, Wilhelm, Crossen, Germany. Means for steering ships.....	598,424	Feb. 1	622	153	82	721
Kutter, Herman L., Sault Ste. Marie, Canada. Revolving screen for paper-pulp.....	612,424	Oct. 18	1470	355 356	85	307
Kutz, Erwin E., Easton, Pa. Stair-rod.....	610,544	Sept. 13	752	171	84	1599
Kutz, George, Easton, Pa. Incubator.....	599,145	Feb. 15	1830	434	82	984
Kvernum, Ole P., Waukon, Iowa. Sash-holder.....	604,537	May 24	2423	551	83	1135
Kyle, Nicholas W., Colfax, Ill. Veterinary operating-table.....	612,948	Oct. 25	2419	576 577	85	507
Kynast, John W., Brooklyn, N. Y. Candle holder and extinguisher.....	601,754	Apr. 5	254	50	83	48
Kynaston, Josiah W. (See Wylde and Kynaston.)						
L. C. White Company. (See Ludington, Frederick W., assignor.)						
L. C. White Company. (See White, George L., assignor.)						
L. E. Rhodes Company. (See Spencer, Ira H., assignor.)						
La Bounty, Albert. (See Mogenson, Mads, assignor.)						
La Clair, Frank W., Waterbury, Conn. Device for stopping holes in pneumatic tires.....	604,768	May 31	2834	648	83	1233
La Fave, Joseph H., assignor of one-half to R. Conklin, Toledo, Ohio. Adjustable handle-bar.....	602,625	Apr. 19	1787	408	83	368
La Fave, William A., New Haven, Conn. Disinfecting apparatus.....	598,103	Feb. 1	58	14	82	614
La Fountain, Maxim, Jr., assignor to Woonsocket Napping Machinery Company, Woonsocket, R. I. Machine for shearing cloth.....	615,190	Nov. 29	3560	819	85	1366
La France, Asa W., assignor to La France Fire Engine Company, Elmira, N. Y. Elevating-screw for aerial ladders, &c.....	602,262	Apr. 12	1168	257	83	235
La France Fire Engine Company. (See La France, Asa W., assignor.)						
La Poer, George P., and C. E. Walker, York, Pa. Thill-coupling.....	606,973	July 5	582	128	84	115
La Roche, Fredrick A., New York, N. Y. Electric switch.....	613,688	Nov. 8	815	187	85	792
La Roche, Fredrick A., New York, N. Y. Circuit-breaker.....	615,395	Dec. 6	340	80	85	1479
La Société Alsacienne de Constructions Mécaniques. (See Wenning and Gégauß, assignors.)						
La Société Anonyme l'Industrielle. (See Gérard, Jean M. A., assignor.)						
La Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier. (See Koetschet, Joseph, assignor.)						
La Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier. (See Monnet, Pierre P., assignor.)						
La Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier. (See Weintraub-Schnorr, Naum, assignor.)						
La Société des Appareils à Changement de Vitesse. (See Gérard, Louis L. H., assignor.)						
La Société des Générateurs à Vaporisation Instantanée, (Système Leon Serpollet.) (See Serpollet, Leon, assignor.)						
La Société des Plaques Lithographiques. (See Fivè, Léon, assignor.)						
La Société Industrielle du Liege et de La Bouchonnerie Parisienne. (See Noël, Charles, assignor.)						
La Société les Fils d'Adolphe Mougin. (See Mougin, Adolphe, assignor.)						
La Société l'Industrielle. (See Gérard, Jean M. A., assignor.)						
La Société Roger et Gallet. (See Gallet, Edmond, assignor.)						
La Violette, Charles F. G. (See Middlekauff, Ellsworth D., assignor.)						
Laake, Hermann, West Orange, N. J. Car-coupling.....	599,567	Feb. 22	2630	616	82	1159



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Labare, Henry N. (See Howe, Ames, and Labare.)						
Labatt, Henry J., <i>et al.</i> (See Labatt and Lewis, assignors.)						
Labatt, Joseph A., and G. H. Lewis, assignors of one-half to J. Goggan, L. Blum, and H. J. Labatt, Galveston, Tex. Vehicle-wheel	607,057	July 12	788	171	84	172
Labée, Alphonse. (See Emond and Labée.)						
Labus, Frank. (See Labus, John and F.)						
Labus, John and F., Karnes City, Tex. Sulky-plow	612,738	Oct. 18	2030	482	85	412
Lacey, Fred, Valleyfield, Canada. Stop-motion for spinning-machines	607,864	July 26	2491	528	84	535
Lacey, Fred, Valleyfield, Canada. Harness-operating device for looms	613,451	Nov. 1	431	98, 99	85	699
Lacey, William W., Boston, Mass. Spring-hub for vehicle-wheels	610,607	Sept. 13	860	197	84	1622
Lack, Finis E., Paducah, Ky. Whiffletree-hook	602,136	Apr. 12	941	206	83	190
Lackawanna Iron and Steel Company. (See Wehrum, Henry, assignor.)						
Lackawanna Lubricating Company. (See Lewis, John F., assignor.)						
Lackey, William, Sherwood, Tex. Kitchen-cabinet	608,336	Aug. 2	310	68	84	718
Lackner, Robert E., Paragould, Ark. Tailpiece for musical instruments	602,337	Apr. 12	1295	287	83	261
Laclede Car Company. (See Koehler, Frank G., assignor.)						
Lacoste, François R., Bordeaux, France. Seal	610,405	Sept. 6	507	111	84	1536
Lacroix, Henri A., and A. C. de Caudemberg, Nice, France. Preserving meats, &c	611,918	Oct. 4	561		85	111
Lacy, Richard H., <i>et al.</i> (See Miller, Louis E., assignor.)						
Lacy, William, Jr., <i>et al.</i> (See Miller, Louis E., assignor.)						
Ladd, Gustine I., <i>et al.</i> (See Johnston, Lysander, assignor.)						
Ladd, Herman W., <i>et al.</i> (See Snowman, William W., assignor.)						
Ladd, Noble W., J. A. Snodgrass, and J. W. Smithson, Saginaw, Ark. Bump-block	600,428	Mar. 8	1461	333	82	1517
Ladd, Sherman W., Beverly, Mass. Lasting-machine	597,321	Jan. 11	1479	346 347	82	304
Ladd, Wyllys C., Bristol, Conn. Tool-holder	609,967	Aug. 30	3322	773	84	1361
Ladewich, George. (See Sladek, Johann, assignor.)						
Lafaurie, Jules, Castelmoran, and G. Giron-Lanauze, Monflanguin, France. Brush	605,724	June 14	1212	280	83	1603
Laffas, Jean M., Paris, France. Safety apparatus for railway-lines	606,672	July 5	68	14, 15	84	16
Lafferty, Frank, Lorain, Ohio. Bevel-tool	611,129	Sept. 20	1780	408	84	1820
Lafrenière, Joseph C., Boston, Mass. Water-heater	612,350	Oct. 11	1348	326	85	270
Lagerman, Alexander, assignor to Jönköpings Tändsticks-Fabriks Aktiebolag, Jönköping, Sweden. Machine for filling match-boxes	604,565	May 24	2476	562 563 564	83	1146
Lagerquist, Gust. (See Forsberg, Peter, assignor.)						
Lagneau, Emile, Lessines, Belgium. Match-making	607,644	July 19	2057	429	84	436
Lagneau, Emile, Lessines, Belgium. Manufacture of matches	610,357	Sept. 6	413	88 89 90	84	1519
Lagrange, Frank B., Hastings Centre, N. Y. Holdback	607,803	July 19	2349	496	84	491
Lahann, Heinrich F. M., Traver, assignor of one-half to J. Roemer, Visalia, Cal. Combined grocery-can and self-setting animal-trap	616,119	Dec. 20	1661	388	85	1766
Lahmer, Jay, Chicago, Ill. Apparatus for making perfumery	597,502	Jan. 18	1814	420	82	386
Lahr, Harry I., Lafayette, Ind. Machine for making cell-cases	609,684	Aug. 23	2832	661 662 663	84	1252
Lahue, Moses M. (See Sawyer and Lahue.)						
Laible, Philip D., and H. Fredrick, Newark, N. J. Beer or mineral-water box	615,860	Dec. 13	1157	270	85	1651
Laidlaw, George R., assignor of two-fifths to L. Stevens, Marion, Ind. Device for converting motion	605,553	June 14	891	208	83	1545
Lainé, Mary A., Toronto, Canada. Stand for holding and displaying lesson picture-rolls, song-charts, maps, &c	615,068	Nov. 29	3352	769	85	1326
Lainson, Alfred T., assignor of one-half to E. C. Lainson, Council Bluffs, Iowa. Non-refillable bottle	597,117	Jan. 11	1162	273	82	242
Lainson, E. C. (See Lainson, Alfred T., assignor.)						
Laird, Edgar N., El Toro, Cal. Portable folding tent	607,933	July 26	2610	554	84	558
Laird, John, assignor of two-thirds to Hope Street Factory, Limited, Belfast, Ireland. Presser-clamp for buttonhole-sewing machines	606,423	June 28	2600	599	83	1904
Laire, Edgar de, Paris, France. Ionone derivative	600,429	Mar. 8	1462		82	1518
Lake, Florence M., New Haven, Conn. Bust-pad	598,378	Feb. 1	526	128	82	701
Lake, Judson L. (See Northcott, Lake, and Clark.)						
Lake, Robert A., Danbury, Conn. Nursing-bottle holder	602,991	Apr. 26	2433	555	83	506
Lake, Simon, Baltimore, Md. Apparatus for floating stranded vessels	611,636	Oct. 4	76	19	85	17
Lally, John, Waltham, Mass. Column	614,729	Nov. 22	2697	615	85	1183
Lamb, Carrie, Bradner, Ohio. Combination kitchen-table and ironing-board	606,928	July 5	517	113	84	103
Lamb, Charles M., assignor to Page Woven Wire Fence Company, Adrian, Mich. Wire fence	596,711	Jan. 4	455	103	82	88
Lamb, Charles M., assignor to Page Woven Wire Fence Company, Adrian, Mich. Wire fence	598,265	Feb. 1	342	79	82	666
Lamb, Charles M., assignor to Page Woven Wire Fence Company, Adrian, Mich. Wire-fence implement	601,473	Mar. 29	3294	745	82	1926
Lamb, Charles M., and J. W. Page, assignors to Page Woven-Wire Fence Company, Adrian, Mich. Warp-feed equalizer for wire-weaving machines	606,464	June 28	2664	613 614	83	1917
Lamb, George A., <i>et al.</i> (See Shaw, William G., assignor.)						
Lamb, George B., assignor to Waterbury Machine Company, Waterbury, Conn. Wire-drawing machine	604,769	May 31	2835	648 649	83	1233
Lamb, George B., Waterbury, Conn., assignor to Hero Fruit Jar Company, Philadelphia, Pa. Glass-press	608,204	Aug. 2	67	18	84	668
Lamb, George R., Hudson, Mich. Tension and feed mechanism for wire-fabric machines	606,424	June 28	2601	599	83	1905
Lamb Glove and Mitten Company. (See Lamb, Isaac W., assignor.)						
Lamb, Henry A. (See Gilmour, Alfred E. C., assignor.)						
Lamb, Isaac W., Perry, Mich. Knitting-machine	611,130	Sept. 20	1781	408 409 410 411	84	1820
Lamb, Isaac W., Perry, Mich. Knitting-machine	611,862	Oct. 4	469	113 114 115	85	94
Lamb, Isaac W., assignor to Lamb Glove and Mitten Company, Perry, Mich. Knit mitten	601,894	Apr. 5	525	108	83	99
Lamb, J. W., <i>et al.</i> (See Cowles, Albert, assignor.)						
Lamb, John S. (See Parke and Lamb.)						
Lamb, Levi L., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Feed-cutter	600,154	Mar. 8	1020	229	82	1434
Lamb, Levi L., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Shredder	601,712	Apr. 5	177	34	83	35
Lamb, Newton, Yreka, Cal. Self-clearing screen for ditches	597,241	Jan. 11	1356	317	82	279
Lambert, Albert L., Cleveland, Ohio. Stop and waste cock	607,865	July 26	2492	528	84	536



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Lambert, Charles E., <i>et al.</i> (See Beeman, Joseph S., assignor.)						
Lambert, Edwin, Dixon, Wyo. Horse-power	612,739	Oct. 18	2032	482	85	413
Lambert, Frank. (See Pastre and Lambert.)						
Lambert, Frank, assignor of one-half to J. W. Kay, Brooklyn, N. Y. Device for testing meters	603,485	May 3	441	99	83	686
Lambert, Gilman, <i>et al.</i> (See Coffee, William M., assignor.)						
Lambert, Henry B., parish of St. Helena, La. Plow	601,516	Mar. 29	3371	764	82	1943
				732		
				733		
				734		
				735		
Lambert, Wilbur C., New Haven, Conn. Machine for grinding cutlery	601,443	Mar. 29	3248		82	1917
Lambie, James B., <i>et al.</i> , trustees. (See Cahill, Thaddeus, assignor.)						
Lambkin, William L., assignor to D. L. McLean, Ottawa, Canada. Newspaper-file	612,113	Oct. 11	929	225	85	192
Lamborg, John, Castalia, S. D. Safeguard for express-cars	597,821	Jan. 25	2358	551	82	508
Lamme, Benjamin G. (See Scott and Lamme.)						
Lamme, Benjamin G., Pittsburg, Pa. System of electrical distribution	607,621	July 19	2014	418	84	427
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Non synchronous electric motor	599,940	Mar. 1	499	112	82	1308
				113		
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Means for controlling non-synchronous alternating-current motors	609,990	Aug. 30	3372	783	84	1371
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Direct-current electrical machine	599,941	Mar. 1	501	113	82	1308
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Inductor-dynamo	599,942	Mar. 1	502	113	82	1308
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. System of electrical distribution	599,943	Mar. 1	504	114	82	1308
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. System of electrical distribution and regulation	606,015	June 21	1810	417	83	1732
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Regulation of rotary-transformer direct-current electromotive force	606,560	June 28	2837	653	83	1952
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Method of and means for securing constant torque in polyphase motors	609,991	Aug. 30	3374	783	84	1371
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Induction-motor	610,067	Aug. 30	3492	809	84	1395
Lamond, David, Pittsburg, Pa. Valve	616,543	Dec. 27	2483	575	85	1949
Lamont, Robert P., assignor to Simplex Railway Appliance Company, Chicago, Ill. Car construction	611,069	Sept. 20	1656	378	84	1795
Lamontagne, Alexander, Jr., Chicago, Ill. Bottle-stopper	614,056	Nov. 8	1440	331	85	914
Lamoureux, Amédée F., Montreal, Canada. Leg for billiard, pool, or other tables	611,260	Sept. 27	2031	469	84	1886
Lampl, Luis, <i>et al.</i> (See Stephenson, John R., assignor.)						
Lamplough, Frederick, London, England. Automatic reservoir steam-trap	614,559	Nov. 22	2372	542	85	1123
Lampson, I. P. (See Gerry, James H., assignor.)						
Lamson Consolidated Store Service Company. (See Cowley, James T., assignor.)						
Lamson Consolidated Store Service Company. (See Goodfellow, John H., assignor.)						
Lanahan, James H., Amsterdam, N. Y. Device for securing fixtures to marble slabs	597,503	Jan. 18	1816	420	82	387
Lancaster, James H., New York, N. Y. Clam-shell scoop or digging apparatus	597,422	Jan. 18	1667	387	82	357
Lancaster, James H., New York, N. Y. Hoisting-machine	604,900	May 31	3050	700	83	1276
				701		
Lancaster, James H., New York, N. Y. Cableway system and apparatus for excavating and conveying	605,488	June 14	792	182	83	1525
				183		
Lancaster, James H., New York, N. Y. Grapple, bucket, &c	605,489	June 14	797	183	83	1526
				184		
Lancaster, James H., New York, N. Y. Hoisting and conveying apparatus	605,884	June 21	1552	356	83	1686
				357		
Lancaster, John, and C. Witteck, New York, N. Y. Cloth-ornamenting apparatus	609,190	Aug. 16	1904	453	84	1052
Lance, Andrew M., and F. J. Flocker, Bellowsville, Pa. Churn	603,091	Apr. 26	2607	592	83	538
				223		
Lanchester, Frederick W., Alvechurch, England. Fluid-pressure engine	613,769	Nov. 8	978	224	85	823
Land, Charles G., <i>et al.</i> (See Dillahay, John G., assignor.)						
Landau, Katharin E., New York, N. Y. Ironing-machine	610,942	Sept. 20	1430	328	84	1753
Landau, Katharine E., New York, N. Y. Fan attachment for umbrellas	610,358	Sept. 6	418	90	84	1519
Landauer-Donner, Firm of G. F. (See Landauer, Fritz, assignor.)						
Landauer, Fritz, assignor to Firm of G. F. Landauer-Donner, Frankfort-on-the-Main, Germany. Ventilator for hats	614,962	Nov. 29	3142	721	85	1288
Landers, George M., Brocton, Ill. Gage-knife	602,758	Apr. 19	2015	457	83	412
Landes, Isaiah C. and M. C., Yerkess, Pa. Sieve for gyratory bolting and scalping machines	612,521	Oct. 18	1627	388	85	337
Landes, Isaiah C. and M. C., Yerkess, Pa. Sieve for flour bolting or scalping machines	612,522	Oct. 18	1628	389	85	337
Landes, Jacob H., Grater's Ford, Pa. Puzzle	601,811	Apr. 5	363	75	83	68
Landes, Milton C. (See Landes, Isaiah C. and M. C.)						
Landis, Edward K., Philadelphia, Pa. Trolley for electric railways	599,393	Feb. 22	2296	542	82	1095
Landis, Frank F., Waynesborough, Pa. Centrifugal grain-separator. (Reissue)	11,680	July 19	2371	502	84	496
				503		
Landis, Frank F., Waynesborough, Pa. Conveyer	611,383	Sept. 27	2288	523	84	1933
Landis, Frank F., Waynesborough, Pa. Pneumatic stacker	611,384	Sept. 27	2290	529	84	1933
Landis, Frederick B., assignor to Ammonia Refrigerating and Supply Company, St. Louis, Mo. Pipe-coupling	607,180	July 12	1020	222	84	214
Landis Wax Thread Sewing Machine Company. (See Dobyne, James B., assignor.)						
Landon, Eli T. (See Garey and Landon.)						
Landon, George A., assignor of one half to W. Douglas, Toronto, Canada. Neck-yoke	605,490	June 14	800	184	83	1527
Landon, Thomas, Kunkle, Pa. Washing-machine	605,962	June 21	1712	392	83	1715
Landtved, Lauritz P., Copenhagen, Denmark. Hydraulic press	607,442	July 19	1512	322	84	325
Lane, Albert D., Montpelier, Vt. Sawmill-dog	614,815	Nov. 22	2840	654	85	1212
Lane, Albert D., Montpelier, Vt. Sawmill-dog	616,711	Dec. 27	2804	650	85	2010
Lane, Cornelius A., <i>et al.</i> (See Roure, Edmond V., assignor.)						
Lane, Edwin, Johnstown, Pa. Trolley-wheel support	612,351	Oct. 11	1349	326	85	270
Lane, Freeman P. (See Davison, Charles W., assignor.)						
Lane, Hattie E., Colfax, Ind. Scrubbing-machine	608,052	July 26	2833	604	84	604
Lane, Henry M., Cincinnati, Ohio. Steam-engine	605,885	June 21	1556	358	83	1687
Lane, John G., Philadelphia, Pa. Snutter-fastener	604,053	May 17	1507	339	83	943
Lane, Levi E., assignor of one-half to G. F. Munn, Lyons, N. Y. Fruit-gatherer	606,062	June 21	1900	437	83	1748
Lane, Norman B., Lane's Mills, Pa. Transportation apparatus	612,352	Oct. 11	1351	326	85	271
Lane, Sampson W., Waco, assignor of one-half to C. L. W. Sherar, Temple, Tex. Marking attachment	607,248	July 12	1160	248	84	239



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Lane, Sophie A., Waco, Tex. Portable folding mirror-stand	611,434	Sept. 27	2385	547	84	1950
Lane, William T., Port Chester, N. Y. Bag	598,611	Feb. 8	928	223	82	797
Lane, William T., Port Chester, N. Y. Bag	615,720	Dec. 13	922	214	85	1606
Lane, William T., Port Chester, N. Y. Basket	615,721	Dec. 13	923	214	85	1606
Lang, Alexander, Roseisle, Canada. Game device	604,401	May 24	2159	485	83	1089
Lang, Benjamin P. M., assignor of one-half to J. M. Roesch, Buffalo, N. Y. Non-slipping horseshoe	609,551	Aug. 23	2571	602	84	1201
Lang, Ernest E. (See Foedisch and Lang.)						
Lang, Frank C., Columbus, Ohio. Vehicle running-gear	602,511	Apr. 19	1591	363 364	83	333
Lang, Friedrich E., Leipsic-Anger, Germany. Manufacturing cutting-blocks	601,969	Apr. 5	673		83	127
Lang, Herbert, Oakland, Cal. Smelting-furnace	604,054	May 17	1508	339 340	83	943
Lang, Herman. (See Busch, George, assignor.)						
Lang, Ladislaus. (See Hörbiger, Hanns, assignor.)						
Lang, Lincoln A., Yule, N. D., assignor of one-half to E. F. Walsh, St. Paul, Minn. Valve-gear	607,058	July 12	789	171 172	84	172
Langbein, Georg, Leipsic, Germany. Apparatus for electroplating articles in bulk	610,907	Sept. 20	1375	315	85	1742
Langdale, Rupert H., Cincinnati, Ohio. Supplementary horseshoe	607,659	July 19	2089	436	84	441
Langdon, Daniel A., Chelsea, and C. H. Brown, Everett, Mass. System of filtration	611,691	Oct. 4	174	42	85	37
Langdon-Davies, Walter, assignor to Davies Motor Company, Limited, London, England. Alternating-current motor	601,023	Mar. 22	2502	569	82	1747
Langdon-Davies, Walter, assignor, by mesne assignments, to Davies Motor Company, Limited, London, England. Electromagnet having rotating fields	604,055	May 17	1511	340	83	944
Langdon, Russell C., New York, N. Y. Cartridge-holding attachment for belts	611,692	Oct. 4	177	42	85	37
Lange, August, Scribner, Nebr. Draft-equalizer	597,290	Jan. 11	1427	335	82	293
Lange, Ferdinand H., assignor of one-half to P. T. Bienkowski, Wilkes-Barre, Pa. Clamp for draw-timbers	613,977	Nov. 1	285	65	85	672
Lange, George C. O., Cresskill, N. J., assignor to Manhattan Optical Company, New York, N. Y. Photographic shutter	608,875	Aug. 9	1292	301	84	924
Langell, Elizabeth, Marine City, Mich. Garment-supporter	598,104	Feb. 1	61	14	82	614
Langer, Gotthold, assignor of one-half to P. Flucks and J. B. Niermann, St. Louis, Mo. Turbine motor	600,007	Mar. 1	596	137 138	82	1326
Langesen, Jens, Owens, Iowa. Gate	614,560	Nov. 22	2373	543	85	1123
Langfield, John, Manchester, England. Gas-stove	605,725	June 14	1213	280	83	1603
Langfield, John, Manchester, England. Means for heating, drying, and ventilating	610,140	Aug. 30	3604	837	84	1418
Langford, Edward P., Harwich, Canada. Dumping-wagon	603,791	May 10	990	221	83	809
Langford, William S., assignor of one-half to W. H. Gough, Baltimore, Md. Automatic fire-extinguisher	616,056	Dec. 13	1525	356	85	1723
Langheld, Erich, Steglitz, Germany. Quinin derivative and making same	605,491	June 14	801		83	1527
Langley, Thomas F., assignor of one-half to B. Peacock, Haverhill, Mass. Shutter-hinge	600,540	Mar. 15	1699	389	82	1583
Langsdale, J. M. W. (See Carver, Edwin, assignor.)						
Langsenkamp, William, Jr. (See Krieger and Coyle, assignors.)						
Langston, Thomas, Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Lamp	615,666	Dec. 6	830	192	85	1576
Langston, Thomas, Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Street-lamp	616,193	Dec. 20	1816	419	85	1798
Lanham, James A., Barrs, Miss. Car-coupling	616,338	Dec. 20	2087	486	85	1852
Lanigan, William J., Duluth, Minn. Bicycle-tire	597,777	Jan. 25	2280	532	82	493
Lanias, Henry, Galion, Ohio. Wrench	608,876	Aug. 9	1295	302	84	925
Lankford, Jerome J. (See Coulbourn and Lankford.)						
Lankford, Jerome J., assignor of one-half to J. W. Minich, Roanoke, Va. Level	613,160	Oct. 25	2752	648	85	574
Lannon, Owen, assignor of one-half to E. W. Ely, Lee, Mass. Pipe-wrench	608,293	Aug. 2	216	50	84	698
Lanphere, Chauncey A., assignor to Invincible Grain Cleaner Company, Silver Creek, N. Y. Flour-packer	611,261	Sept. 27	2031	469 470	84	1886
Lanskail, Alexander D., et al. (See Manny, Eugène S., assignor.)						
Lantz, Menno S. (See Merrill, William E. T., assignor.)						
Lantz, William B. (See Gaffney, Charles H., assignor.)						
Lantz, William B., Gloucester, Mass. Rope-hauling machine	606,063	June 21	1901	438	83	1748
Lanyon, Robert H. and W., Iola, Kans. Hollow arch-supporting standard or buckstay for zinc-smelting furnaces	616,474	Dec. 27	2353	547	85	1926
Lanyon, Robert H. and W., Iola, Kans. Zinc-smelting furnace	616,475	Dec. 27	2355	547	85	1926
Lanyon, Simon D., and J. W. Tripp, Sedalia, Mo. Street-sweeper	602,458	Apr. 19	1504	343 344	83	315
Lanyon, William. (See Lanyon, Robert H. and W.)						
Lanz, Firm of Heinrich. (See Diefenthaler and Röhl, assignors.)						
Lanz, John, assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Pneumatic tool appliance	596,781	Jan. 4	576	133	82	111
Lanz, William, Chicago, Ill. Belt	600,331	Mar. 8	1307	299	82	1489
Lanzit, Joseph J., Chicago, Ill. Paper vessel	608,687	Aug. 9	934	215	84	860
Lapaugh, Louis T., Utica, N. Y. Bicycle-lock	610,068	Aug. 30	3493	810	84	1395
Lapaugh, Louis T., assignor of two-thirds to E. D. Gray and W. R. Donalty, Utica, N. Y. Nursing-bottle	608,053	July 26	2834	604	84	604
Lapham, Anson F. (See Bale and Lapham.)						
Laporte, Joseph C., Maniwaki, Canada. Automatic gate	604,402	May 24	2160	485	83	1089
Lappin Brake Shoe Company. (See Pickring, Charles, assignor.) (Reissue.)						
Laraway, Cullen E., Plaquemine, La. Nut-lock	610,815	Sept. 13	1218	281	84	1695
Lare, Marcellus R., and J. S. Young, Pittsburg; said Young assignor to A. Lutz, Allegheny, Pa. Curtain-stretcher	602,459	Apr. 19	1508	344	83	316
Larimer, Frank H., et al. (See Ford, John W., assignor.)						
Larimer, George B., et al. (See Ford, John W., assignor.)						
Larkin, Eugene H., Detroit, Mich. Clothes-reel	616,676	Dec. 27	2739	636	85	1998
Larkin, Francis, Jr., et al. (See Freeman, Warren P., assignor.)						
Larkin, George F., Newark, N. J. Machine for pouncing hat-bodies	616,623	Dec. 27	2615	606 607	85	1973
Larkin, George H., San Francisco, Cal. Retort oil-burner	609,552	Aug. 23	2572	603	84	1201
Larkin, John M., Union, S. C. Car-coupling	615,561	Dec. 6	645	147	85	1538
Larkins, James C., Minneapolis, Minn. Socket-bracket for drapery-poles, &c	597,064	Jan. 11	1065	250	82	224
Larrabee, Albert E., and J. I. Banks, Bristol, Pa. Head-rest	599,850	Mar. 1	330	74	82	1275
Larrabee, Cornelia H. W., New York, N. Y. Combined ambulance and tourist's wagon	615,396	Dec. 6	343	80, 81	85	1479
Larrabee, Joe, Kansas City, Kans. Carriage-reverser for type-writing machines	597,723	Jan. 25	2180	509	82	474
Larrison, Lewis K., Schooley's Mountain, N. J. Bottle	602,338	Apr. 12	1295	287	83	261
Larsen, Peter C., Fairmount Park, Mo. Reflector	611,863	Oct. 4	475	115	85	95
Larsen, Soren C., Dover, N. J. Hanger for wearing-apparel	599,244	Feb. 15	1992	473	82	1013
Larson, Axel A., Charter Oak, Iowa. Wrench	597,990	Jan. 25	2649	619	82	564
Larson, Carl W., Schenectady, N. Y. Combined regulating-valve and nozzle for turbines	598,998	Feb. 15	1588	377	82	988



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Larson, Emil, Chicago, Ill. Sheet-separator	609,968	Aug. 30	3323	773 774	84	1361
Larson, Jacob P. (See Lindbergh, Nicols, assignor.)						
Larson, John P. (See Berger, Joseph A., assignor.)						
Larson, Lars H., Hartland, Minn. Corn-planter	605,608	June 14	1006	232	83	1564
Larson, Olof, and C. Branzell, assignors of part to C. Ellison, S. G. Peterson, A. Fridstrom, J. Sundell, Monsos & Larson, W. Nystrom, and A. C. Anderson, Ashland, Wis. Combined nut and pipe wrench	601,970	Apr. 5	674	142	83	127
Larson, Syver, Northwood, N. D. Lamp-chimney cleaner	597,187	Jan. 11	1270	298	82	263
Larsson, August, Herrljunga, Sweden. Artificial leg	611,812	Oct. 4	383	92	85	77
Larter, Frederick H., <i>et al.</i> (See Larter, Halsey M., assignor.)						
Larter, Halsey M., assignor of two-thirds to F. H. and H. C. Larter, Newark, N. J. Button or stud	616,057	Dec. 13	1527	357	85	1724
Larter, Harry C., <i>et al.</i> (See Larter, Halsey M., assignor.)						
Larue, Alvy M., Downey, Iowa. Car-coupling	610,114	Sept. 13	1032	238	84	1658
Larue, Charles, Brussels, Belgium. Driving-gear for velocipedes, autocars, or other vehicles	607,443	July 19	1514	323	84	326
Lash, John F., Linneus, Mo. Buggy-boot	609,817	Aug. 30	3050	713	84	1307
Lasker, William W., Brooklyn, N. Y. Corset-clasp	597,584	Jan. 11	1943	452	82	413
Laskey, John H., Boston, Mass. Self-leveling marine dining-table	604,831	May 31	2933	671	83	1253
Laskey, Stephen, Chicago, Ill. Feller for sewing-machines	613,285	Nov. 1	114	26, 27	85	638
Lateulere, Albert A., London, England. Music-recording mechanism	610,141	Aug. 30	3604	837	84	1418
Latham, Albert, Springfield, Mass., assignor to Sterling Supply and Manufacturing Company, New York, N. Y. Cash-register	597,504	Jan. 18	1817	421	82	387
Latham, Albert, Springfield, Mass., assignor to Sterling Supply and Manufacturing Company, New York, N. Y. Cash-register	597,505	Jan. 18	1820	421	82	388
Latham, Chester A., Wichita, Kans. Washing-machine	612,850	Oct. 25	2264	540	85	476
Latham, Woodville, New York, N. Y. Apparatus for photographing objects in motion and for projecting pictures	600,113	Mar. 1	889	204 205	82	1388
Lathrop, Charles F. (See Vredenburg and Lathrop.)						
Lathrop, Frank K., assignor to Ohio Rake Company, Dayton, Ohio. Corn-planter	613,929	Nov. 8	1243	282 283	85	874
Lathrop, Frank K., assignor to Ohio Rake Company, Dayton, Ohio. Double-row planter	613,930	Nov. 8	1245	283	85	874
Lathrop, James W., Mystic, Conn. Distilling extracts	606,789	July 5	295	61	84	59
Lathrop, Thomas A., Kalamazoo, Mich. Spring-setting machine	600,877	Mar. 22	2260	515 516	82	1702
Latimer, Clark W., Portage, Wis. Suspender-buckle	610,545	Sept. 13	753	171	84	1599
Latimer, Ellen R. (See Latimer, William E., assignor.)						
Latimer, Frank, Huntley, Ill. Vehicle-tire	602,759	Apr. 19	2016	457	83	412
Latimer, John W., assignor to Deering Harvester Company, Chicago, Ill. Hay-rake	615,722	Dec. 13	924	215	85	1607
Latimer, William E., assignor to E. R. Latimer, Utica, N. Y. Chair-back-adjusting device	614,963	Nov. 29	3142	721	85	1288
Latour, Marie E. de, New York, N. Y. Lady's waist	608,688	Aug. 9	936	215	84	860
Latshaw, Zachariah, assignor to C. R. Higgins, New York, N. Y. Water seal and valve-trap	602,685	Apr. 19	1903	433	83	391
Latshaw, Zachariah, assignor to C. R. Higgins, New York, N. Y. Sewer-valve	604,117	May 17	1637	367	83	967
Latta, Emmit G., Friendship, N. Y. Velocipede-pedal	599,909	Mar. 1	445	99	82	1298
Latta, Emmit G., Friendship, N. Y. Type-writing machine	605,201	June 7	258	61 62	83	1399
Latta, Griffin T., Ludlow, Ky. Earth-boring and pipe-laying apparatus	607,999	July 26	2723	582	84	580
Latta, John S., <i>et al.</i> (See Armstrong, Ernest, assignor.)						
Latta, Joshua W., Sherman, Wyo. Castrating instrument	598,999	Feb. 15	1590	377	82	939
Latta, Robert. (See Brown, Ira W., assignor.)						
Latta, Samuel E. (See Fulcher and Latta.)						
Lattimore, Daniel J., St. Louis, Mo., assignor to Greenlee Brothers & Company, Chicago, Ill. Abrading-wheel	608,877	Aug. 9	1296	302	84	925
Lau, Fred J. S., Kansas City, Mo. Electric massage appliance	602,950	Apr. 26	2369	540	83	495
Laube, Godfried, Huron, S. D., assignor of one-half to V. L. Grable and G. Glover, Malakoff, Tex. Toy	598,051	Jan. 25	2746	640	82	583
Laubenstein, Adolph G. (See Dempsey, James J., assignor.)						
Laubscher, Alexander, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Folder attachment for sewing-machines	614,398	Nov. 15	2091	482	85	1057
Lauckert, Edward F. H. H., assignor to Siemens Brothers & Co., Limited, London, England. Switch for varying electrical resistance	608,878	Aug. 9	1297	302	84	925
Lauder, Isaac N., Binghamton, N. Y. Latch	607,866	July 26	2493	528	84	536
Lauer, Anton J., Milwaukee, Wis. Box-fastening device	611,637	Oct. 4	81	20	85	18
Lauer, Daniel, York, Pa. Combined sash holder and fastener	596,889	Jan. 4	747	176	82	146
Lauer, Henry, Columbus, Ohio, assignor of one-half to W. H. Sartain. Device for removing scale from boiler-flues	601,151	Mar. 22	2701	621	82	1786
Lauer, Victor. (See Dahl and Lauer.)						
Lauer, Victor, Little Berger, Mo. Harness-hook	613,579	Nov. 1	646	149	85	738
Lauferty, Alexander S. (See Weisell, David D., assignor.)						
Laughlin, Alexander, Sewickley, and C. Evans, Pittsburg, Pa. Heating-furnace	599,146	Feb. 15	1832	434 435	82	984
Laughlin, Alexander, Sewickley, and J. Reuleaux, Wilksburg, Pa.; said Reuleaux assignor to said Laughlin. Heating-furnace	599,182	Feb. 15	1889	447	82	993
Laughlin, Alexander, Sewickley, and J. Reuleaux, Wilksburg, Pa.; said Reuleaux assignor to said Laughlin. Heating-furnace. (Reissue)	11,666	May 31	3331	765 766	83	1329
Laughter, Edward B., Laughlin, Ark. Car-coupling	605,726	June 14	1214	281	83	1604
Laun, Ernest E. (See Laun, Henry W. and E. E.)						
Laun, Henry W. and E. E., Chicago, Ill. Acetylene-gas generator	599,394	Feb. 22	2299	543	82	1096
Laurenson, Charles P. (See Miller, Augustus P., assignor.)						
Laurent, Louis E., and E. E. Cherry, Trenton, N. J. Cable hoisting and conveying apparatus	612,851	Oct. 25	2265	540	85	476
Lauritsen, John, Tyler, Minn. Tension device for twine-binders	609,106	Aug. 16	1770	421	84	1027
Lausen, Hans C., Newman, Cal. Scissors-sharpener	604,118	May 17	1639	367	83	968
Lauten, Frank H., New York, N. Y. Box-covering machine	597,360	Jan. 11	1553	362 363	82	319
Lauter, Wilhelm, Frankfort-on-the-Main, assignor to Firm of F. C. Glaser, Berlin, Germany. Apparatus for driving subterranean tunnels	612,353	Oct. 11	1352	327	85	271
Lautner, William C., assignor to Ideal Couch and Casket Company, Rochester, N. Y. Burial-casket	599,043	Feb. 15	1667	394	82	955
Lautz, William, Buffalo, N. Y. Stone-sawing machine	610,653	Sept. 13	929	214 215	84	1636
Lauxmann, Jacob, New York, N. Y. Fire-escape	599,000	Feb. 15	1591	377 378	82	939



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Laval, George de, Warren, Mass., assignor to Geo. F. Blake Manufacturing Company, New York, N. Y. Valve for pumps or engines	601,059	Mar. 22	2560	584	82	1759
Laval, George de, Cambridge, Mass., assignor to Geo. F. Blake Manufacturing Company, New York, N. Y. Valve mechanism for steam-pumps	604,475	May 24	2310	524	83	1116
Lavell, John R. (See Perrin, William H., assignor.)						
Lavender, Herbert P., Walsall, England. Letter-file	605,492	June 14	801	184 185	83	1527
Lavens, Erwin. (See Leopold, Harry G., assignor.)						
Lavigne, Joseph P., New Haven, Conn. Box-tool for screw-machines or lathes	602,908	Apr. 26	2286	521	83	478
Lavigne, Joseph P., New Haven, Conn. Turret-lathe	607,693	July 19	2137	449 450 845	84	449
Lavigne, Joseph P., New Haven, Conn. Turret-lathe. (Reissue)	11,690	Aug. 30	3640	846 847	84	1426
Lavigne, Joseph P., assignor of one-half to W. F. Day, New Haven, Conn. Bicycle-pedal	601,517	Mar. 29	3373	764	82	1943
Lavigne, Joseph P., assignor of one-half to W. F. Day, New Haven, Conn. Bicycle-pedal	601,518	Mar. 29	3375	764 765	82	1943
Lavocat, Albert, and E. Candlot, Paris, France. Cement-kiln	614,730	Nov. 22	2699	615	85	1183
Lavoie, Arthur. (See Lefebvre and Poliquin, assignors.)						
Law, Hartland and H. E., San Francisco, Cal. Bath-gown	601,835	Apr. 5	399	84	83	75
Law, Herbert E. (See Law, Hartland and H. E.)						
Law, Prentis E., Wilmette, Ill. Fireplace-screen	609,236	Aug. 16	2008	476	84	1075
Law, Prentis E., Wilmette, Ill. Car-fender	609,818	Aug. 30	3051	713 714	84	1307
Law, William H., Peterborough, Canada. Power-hammer	612,949	Oct. 25	2422	577	85	508
Law, Windfield S., Conings, W. Va. Hat-pin	598,425	Feb. 1	623	153	82	721
Lawes, Harry W., et al. (See Lawes, Walter, assignor.)						
Lawes, Walter, assignor of three-fourths to H. W. Lawes, I. R. Janell, New Bedford, and W. Lawes, Boston, Mass. Boot or shoe	615,069	Nov. 29	3354	769	85	1326
Lawes, William, et al. (See Lawes, Walter, assignor.)						
Lawler, James G., St. Charles, Mo. Car-door track	616,476	Dec. 27	2357	548	85	1926
Lawler, Miles J., Parnell, Iowa. Mouse-trap	615,562	Dec. 6	647	148	85	1538
Lawler, Terrance, et al. (See Le Duc, Joseph E., assignor.)						
Lawler, William F., Anderson, Ind. Wrench	603,194	Apr. 26	2775	632	83	572
Lawless, Edward J. (See Robinson and Lawless.)						
Lawless, John H., Jersey City, N. J. Self-acting supply-tank	601,474	Mar. 29	3295	745	82	1926
Lawley, William F. (See Hyde, John W., assignor.)						
Lawrance, Milo E. (See Hale, George C., assignor.)						
Lawrason, Louis O., assignor of one-half to J. W. Butler, London, Canada. Sanitary ejector	607,753	July 19	2233	472	84	468
Lawrence, A. H., et al. (See Hidden, George A., assignor.)						
Lawrence, George E., assignor of one-half to J. J. Mumford, Creston, Iowa. Buckle	606,629	June 28	2959	686	83	1974
Lawrence, James E., Farnham, Canada. Antifriction-bearing	606,485	June 28	2695	621	83	1924
Lawrence, John, Columbus, Ohio. Bed	609,819	Aug. 30	3054	714 715	84	1307
Lawrence, John G., New Hampton, Iowa. Platen for type-writers	599,183	Feb. 15	1891	448	82	994
Lawrence, Joseph L., assignor of one-half to C. Thomas & Co., Boston, Mass. Hansom-cab	611,385	Sept. 27	2292	529 530	84	1934
Lawrence, Morris P., Phoenixville, Pa. Device for replacing bolts	597,005	Jan. 11	963	228	82	204
Lawrence, Thomas E., and A. R. Cooper, Mooresville, Ind. Device for loading dirt, gravel, &c., onto wagons	599,340	Feb. 22	2185	519	82	1072
Lawrence, William, London, England. Apparatus for purifying water	607,059	July 12	791	172	84	172
Lawrence, William, New York, N. Y., assignor to Universal Surface Electric Railway Company, of West Virginia. Electric-railway system	605,317	June 7	495	110	83	1446
Laws, Albert D., assignor to Eaton, Cole & Burnham Company, Bridgeport, Conn. Hose-nozzle	599,967	Mar. 1	538	123	82	1315
Laws, Albert D., assignor to Eaton, Cole & Burnham Company, Bridgeport, Conn. Screw-cutting device	599,968	Mar. 1	540	123	82	1315
Laws, George, Phillipsburg, Pa. Combination blasting-tool	605,727	June 14	1215	281	83	1604
Lawson, Charles B., assignor of one-half to C. Finkbohner, Stockton, Cal. Vegetable-slicer	608,368	Aug. 2	355	78	84	726
Lawton, Albert L. and A. W., New York, N. Y. Preserving alimentary substances, &c.	602,793	Apr. 19	2082		83	424
Lawton, Andrew L., and D. L. Macaffree, Colorado Springs, Colo.; said Macaffree assignor to said Lawton. Car-fender	607,514	July 19	1817	378	84	391
Lawton, Arthur W. (See Lawton, Albert L. and A. W.)						
Lawton, Burton L. (See Egan, Lawton, and Wilcox.)						
Lawton, Edgar, Omeme, N. D. Well-drill	602,339	Apr. 12	1296	287	83	261
Lawton, Francis N., Summit, N. J. Electric-cord-adjusting device	602,235	Apr. 12	1121	246	83	225
Lawton, George M., et al. (See Bogel, Henry F., assignor.)						
Lawton, Hugh. (See Bulkley, James G., assignor.)						
Lawwill, Charles R., Manchester, Ohio. Ice-cutting machine	614,731	Nov. 22	2701	615	85	1184
Lay, Fred E. (See Chapin, Andrew P., assignor.)						
Laybourne, Richard. (See Price, Marsh, and Laybourne.)						
Laycock, Thomas B., and J. H. Lytle, assignors to T. B. Laycock Manufacturing Company, Indianapolis, Ind. Spring-mattress	600,919	Mar. 22	2326	529	82	1714
Layman, Waldo A., St. Louis, Mo. Ammeter for alternating electric currents	616,339	Dec. 20	2088	486	85	1852
Lays, Edward, New York, N. Y. Dumping-scow	606,289	June 28	2337	541	83	1853
Layton, Cyrenius A. (See Unterbrink, Ignatius L., assignor.)						
Layton, D. K. (See Cotner, David R., assignor.)						
Layton, Joseph. (See Bowles and Layton.)						
Layton, Rawson H., South Bend, Ind. Wagon-brake. (Reissue)	11,705	Dec. 13	1547	361	85	1727
Lazarus, Sam, et al. (See Clark, George C., assignor.)						
Le Ballister, David N., Fort Bragg, Cal., assignor, by mesne assignments, to D. H. Hayne and A. D. Stebbins, Baltimore, Md. Bicycle-brake	605,728	June 14	1216	281	83	1604
Le Baron, Leonard, assignor of one-half to H. H. Thornton, Pensacola, Fla. Fire-alarm indicator	615,723	Dec. 13	926	216	85	1607
Le Blanc, Alfio, New Orleans, La. Cane-cutter	610,069	Aug. 30	3495	810	84	1395
Le Bosquet, J. R., et al. (See Thornton and Moody, assignors.)						
Le Bron, Adolphe W., assignor of two-thirds to F. F. Visscher, Montgomery, Ala., and O. K. Le Bron, Chattanooga, Tenn. Combined match-box, cigar-cutter, &c.	610,142	Aug. 30	3606	838	84	1419
Le Bron, Otto K., et al. (See Le Bron, Adolphe W., assignor.)						
Le Court, Francis A., Rockport, Mass. Trolley	614,208	Nov. 15	1725	396	85	990
Le Duc, Constant, South Park, N. J. Bag-fastening	613,580	Nov. 1	647	150	85	738
Le Duc, Joseph E., assignor of one-third to T. Lawler and L. Nehring, Northampton, Mass. Cigar-clipper	598,634	Feb. 8	976	235	82	805
Le Fevre, George A., New York, N. Y. Driving-gear for electric meters	599,508	Feb. 22	2522	593	82	1138
Le Gore, James W., Le Gore, Md. Portable wire fence	616,544	Dec. 27	2485	575	85	1950



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Le Gore, James W., Le Gore, Md. Portable wire fence	616,545	Dec. 27	2486	575	85	1950
Le Roy, Donald. (See Brown, William H., assignor.)						
Le Roy, Juliet M., and M. D. Converse, assignors to J. J. Tower, New York, N. Y. Nail-extractor	610,360	Sept. 6	421	91	84	1520
Le Sage, Gideon, Los Angeles, Cal. Pruning implement	596,890	Jan. 4	748	177	82	146
Le Seur, William F., New York, N. Y. Truss	606,465	June 28	2666	614	83	1918
Le Van, Aaron H., Reading, Pa. Dust-conveyer for railway passenger cars or coaches	604,867	May 31	3001	689	83	1266
Le Vio, Monroe, New York, N. Y. Permutation-padlock	605,493	June 14	803	185	83	1527
Lea, Leander, Franklinton, La. Plow	607,934	July 26	2611	554	84	558
Leach, David W., and O. Turner, Truckee, Cal. Portable fire-escape apparatus	609,281	Aug. 16	2092	496	84	1091
Leach, Edwin W. (See Kersey and Leach.)						
Leach, Frederick. (See Marsh and Leach.)						
Leach, Henry E., Bedford, Ohio. Sash-fastener	608,461	Aug. 2	521	116 117	84	759
Leach, Hiram S., assignor of one-half to M. P. Perley, Enosburg, Vt. Thill-coupling	600,430	Mar. 8	1463	334	82	1518
Leaf, Karl W., Quincy, Mass. Placket-fastener	598,612	Feb. 8	929	223	82	797
League Cycle Manufacturing Company. (See Connell, James R., assignor.)						
Leak, Tilman F., and R. West, Montgomery, Ala. Tire-tightener	606,929	July 5	518	114	84	103
Lean, Emerson O., and E. S. Fisher, Mansfield, Ohio. Harrow	597,201	Jan. 11	1294	302 303	82	268
Lean, George R., deceased; J. Potter, administrator, assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc lamp	598,942	Feb. 15	1485	354 355 356	82	917
Lean, George R., deceased; J. Potter, administrator, assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc lamp	598,943	Feb. 15	1495	356	82	920
Lear, Mason D., Kushequa, Pa. Feed mechanism for clothes-pin lathes	614,113	Nov. 15	1558	356 357	85	958
Leary, Edward B., Rochester, N. Y. Curtain-stretcher	600,205	Mar. 8	1098	250	82	1449
Leary, Philip F., Fall River, Mass. Metallic gasket	602,542	Apr. 19	1643	374	83	341
Leas, Theodore. (See Stevenson, George W., assignor.)						
Lease, George M., Salem, Oreg. Swing	597,991	Jan. 25	2650	619	82	564
Leask, John and T. W., assignors of two-thirds to H. Currie and E. L. Brazenor, Gore Bay, Canada. Sash-holder	603,907	May 10	1212	274 275	83	852
Leask, Thomas W. (See Leask, John and T. W.)						
Leatherman, Franklin T., and J. Metzler, assignors of one-third to H. D. McLallen and W. F. McNaghy, Columbia City, Ind. Pipe-coupling	608,000	July 26	2725	582	84	580
Leavens, Charles W., Cedar Bayou, Tex. Floor-set	596,602	Jan. 4	257	57	82	51
Leaver, James M. (See Vance and Leaver.)						
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Hydraulic press	604,056	May 17	1514	341 342	83	945
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for working sheet metal	604,057	May 17	1522	342 343	83	945
Leavitt, William E., New York, N. Y. Bicycle-stand	598,791	Feb. 8	1231	297	82	853
Leaycraft, Edwin S., Jersey City, N. J. Bicycle-chain adjustment	601,346	Mar. 29	3084	696	82	1886
Leaycraft, Edwin S., Jersey City, N. J. Sprocket-chain	601,347	Mar. 29	3085	697	82	1886
Leaycraft, Edwin S., Jersey City, N. J. Antifriction-bearing	601,348	Mar. 29	3086	697	82	1886
Leaycraft, Edwin S., Jersey City, N. J. Bicycle-brake	601,349	Mar. 29	3087	697	82	1887
Leaycraft, Edwin S., Jersey City, N. J. Bicycle	601,350	Mar. 29	3088	697	82	1887
Leaycraft, Edwin S., Jersey City, N. J. Railway-switch	616,120	Dec. 20	1663	388 389	85	1766
Leaycraft, Ida. (See Sturges and Leaycraft.)						
Lebach & Company, Gesellschaft mit Beschränkter Haftung. (See Bauer, Peter, assignor.)						
Lebioda, Georg F., Paris, France. Apparatus for drying and hardening wood	608,780	Aug. 9	1087	250	84	887
Lebioda, Georg F., Paris, France. Apparatus for dyeing and impregnating wood	609,442	Aug. 23	2370	559	84	1164
Lebkuecher, Leonard, Belleville, Ill. Canister	601,475	Mar. 29	3296	746	82	1927
Leblanc, Alfredo, Stamford, Conn. Stud and eyelet for same	609,512	Aug. 23	2509	587	84	1189
Leblanc, Maurice. (See Hutin and Leblanc.)						
Leblanc, Maurice, assignor to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Alternating-current dynamo-electric machine	613,209	Oct. 25	2855	673 674	85	594
Lebrun, Gustave, and F. Cornaille, Paris, France. Burner for acetylene or other gases	605,886	June 21	1557	358	83	1687
Lecher, Hermann, and C. Kirchhahn, Milwaukee, Wis. Tank supply-valve	602,512	Apr. 19	1592	364	83	333
Lechner, Francis M., assignor to W. V. Baker, Columbus, Ohio. Ball-bearing	615,070	Nov. 29	3356	769	85	1326
Leclaire, Joseph L., et al. (See Coupal, Prosper, assignor.)						
Leconte, Hippolyte J., and H. M. Gourrier, Paris, France. Manufacture of stamped wheels for toys or the like	609,820	Aug. 30	3068	715	84	1311
Leddy, Andrew. (See Thorp and Leddy.)						
Lederer, Leonhard, Munich, Germany. Obtaining hydroxylized phenyl ethers	606,930	July 5	519		84	103
Lederer, William, New Haven, Conn. Box-folding machine	599,615	Feb. 22	2719	635 636	82	1176
Ledoux, John W., Swarthmore, assignor to R. Wetherill & Co., Chester, Pa. Water-filtering apparatus	599,103	Feb. 15	1758	418	82	972
Ledowsky, Onesime, St. Petersburg, Russia. Station-indicator	605,318	June 7	496	110 111	83	1446
Ledreux, Florent P., Paris, France. Machine for making beaded trimmings	609,152	Aug. 16	1839	437 438	84	1041
Ledward, Frederick A., assignor of two-thirds to S. W. McKee and M. E. Stockwell, Grand Rapids, Mich. Furniture-clamp	615,071	Nov. 29	3358	770	85	1327
Lee, Alfred, New Whatcom, Wash. Rotary steam-engine	605,805	June 14	1372	315	83	1633
Lee Arms Company. (See Parkhurst, Edward G., assignor.)						
Lee, Caleb, assignor of one-half to S. D. Herron, Homeworth, and I. Koch, Alliance, Ohio. Hand-stamp	613,161	Oct. 25	2753	648	85	574
Lee, Charles. (See Bernhard, Louis, assignor.)						
Lee, Charles, San Antonio, Tex. Fist-blow tester	600,431	Mar. 8	1464	334	82	1518
Lee, Charles A., Esbon, Kans. Draft-equalizer	614,399	Nov. 15	2093	482	85	1058
Lee, Charles H. (See McCormack, Charles H., assignor.)						
Lee, Chester L., Ellsburg, and F. G. Lee, Pierrepont Manor, N. Y. Apparatus for separating cream from milk	605,252	June 7	373	84	83	1422
Lee, David A. and T. E. Centerville, Iowa. Mining-machine	601,971	Apr. 5	675	143	83	128
Lee, David S., and F. C. Stuckel, assignors to Hart Weigher Company, Peoria, Ill. Grain elevator and conveyer spout	600,835	Mar. 15	2182	497	82	1674
Lee, Edward, and J. S. Pickford, assignors to National Bakery Company, London, England. Show-case	615,072	Nov. 29	3359	770	85	1327
Lee, Frederick G. (See Lee, Chester L. and F. G.)						
Lee, George S., Hawthorne, N. J. Cotton-harvester	608,689	Aug. 9	937	215 216	84	860



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Lee, George W., F. Elliott, and G. Tatham, Sydney, New South Wales. Composition, process of, and apparatus for making gas.	614,400	Nov. 15	2094	482	85	1058
Lee, Harry P., Stonington, Conn. Swift or reel.	612,971	Oct. 25	2459	587	85	516
Lee, Henry M., <i>et al.</i> (See Remsen, Timothy A., assignor.)						
Lee, J. E. S., <i>et al.</i> (See Dallin, Bruce, assignor.)						
Lee, Jacob M., Houston, Tex. Stock-guard.	614,013	Nov. 8	1380	316	85	902
Lee, Janie H. (See Conkling and Lee.)						
Lee, Jesse S. (See Crandall, Albert L., assignor.)						
Lee, Job, Kettering, England. Stitch indenting and separating machine.	602,859	Apr. 26	2203	499	83	463
Lee, John A., Sr. (See Ford and Lee.)						
Lee, John C., Climax, Minn. Reel for harvesters.	612,354	Oct. 11	1353	327	85	271
Lee, John E., Conshohocken, Pa. Container for ligatures, &c.	612,355	Oct. 11	1355	328	85	272
Lee, John J., Darwin, Ohio. Lifter.	600,432	Mar. 8	1467	334	82	1519
Lee, Stephen B., Danbury, Iowa. Combined pitchfork and rake.	613,012	Oct. 25	2520	600	85	528
Lee, Thomas B., Barnwell, S. C. Cotton-gin.	600,287	Mar. 8	1238	281 282	82	1476
Lee, Thomas E. (See Lee, David A. and T. E.)						
Lee, Wendell P., <i>et al.</i> (See Bower, Harry A., assignor.)						
Leech, George A., New York, N. Y. Bicycle-saddle.	612,972	Oct. 25	2460	587	85	516
Leech, Scott E., and G. Aslett, Mannington, W. Va. Casing or tube elevator.	612,356	Oct. 11	1356	328	85	272
Leede, Julius, Minneapolis, Minn. Acetylene-gas apparatus.	597,291	Jan. 11	1428	335	82	293
Leede, Julius, Minneapolis, Minn. Acetylene-gas generator.	613,162	Oct. 25	2755	649	85	575
Leedham, Horatio K., Mount Pleasant, Iowa. Road-grader.	603,220	Apr. 26	2811	642	83	578
Leedy, Carrie H., Keuka, Fla. Flower-carrier.	603,649	May 10	749	166	83	762
Lees, John E., <i>et al.</i> (See Dinsmore, John H. R., assignor.)						
Lees, John E., <i>et al.</i> (See Hancock and Scholes, assignors.)						
Lees, Theodore F., New York, N. Y. Coupling for pipes and hose.	610,359	Sept. 6	420	90	84	1520
Lees, William G. (See Shaw and Lees.)						
Lefebvre, Claude A., Paris, France. Oil or similar motor.	614,114	Nov. 15	1563	357	85	958
Lefebvre, Victor, and T. Poliquin, assignors of one-third to A. Lavoie, Lowell, Mass. Chimney-cleaner.	614,874	Nov. 29	2962	680	85	1250
Lefferts, John A., New York, N. Y. Envelop.	606,349	June 28	2451	568	83	1875
Lefferts, Marshall C. (See Stevens and Lefferts.)						
Lefferts, Paul R., <i>et al.</i> (See Dinsmore, Robert, assignor.)						
Leffler, Charles, Brooklyn, N. Y. Box-binding machine.	598,307	Feb. 1	419	99	82	681
Leffler, Charles, New York, N. Y. Metallic box-binding strip.	613,067	Oct. 25	2613	618	85	547
Lefkowitz, Nathan. (See Stern and Lefkowitz.)						
Leffer, Edmund S., Anna, Ill. Can-opener.	597,724	Jan. 25	2182	510	82	474
Lefort, Adelina, Newark, N. J. Safety attachment for windows.	612,166	Oct. 11	1021	246	85	219
Leger, Edward, Chicago, Ill. Display hat-top.	604,938	May 31	3118	716	83	1289
Legg, B. D. (See Weston, Edward D., assignor.)						
Legg, Lorenzo P., Jefferson, Ga. Fireplace-fender.	615,861	Dec. 13	1159	270	85	1652
Legg, Robert, London, England. Cigarette-machine.	616,477	Dec. 27	2358	548	85	1927
Legge, William, London, assignor to Patent Folding Perambulator Company, Limited, Croydon, England. Folding road vehicle.	604,331	May 17	2031	455	83	1044
Leggett, Joseph P., Carthage, Mo. Manufacture of spring-bottoms.	611,131	Sept. 20	1787	410 411	84	1820
Leggett, Joseph P., Carthage, Mo. Machine for attaching bed-springs to cross-wire bases.	611,132	Sept. 20	1789	411	84	1821
Leggett, Leroy, Sidney, Iowa. Fruit-picker.	612,852	Oct. 25	2266	540	85	476
Leggo, William A., Jr., Hartsdale, N. Y., assignor of one-fourth to Long Island Rubber and Cycle Company, of New York. Back-pedaling brake.	605,643	June 14	1076	247	83	1578
Legrand, Albert, Manchester, N. H. Preserve-jar and cover therefor.	606,822	July 5	347	74	84	69
Legrand, Anton M., Milwaukee, Oreg. Non-refillable bottle.	608,879	Aug. 9	1298	303	84	926
Legrand, Louis, Paris, France. Shaving-brush.	611,969	Oct. 4	648	157	85	127
Legrand, Paul E., Pau, France. Railway signal-alarm.	607,754	July 19	2234	472	84	469
Legris, Peter, <i>et al.</i> (See Coupal, Prosper, assignor.)						
Lehberger, George, assignor of one-half to P. McIlvried, Braddock, Pa. Rod-mill floor.	602,021	Apr. 5	747	161	83	141
Lehman, John P., <i>et al.</i> (See Smith, Frank S. and S. J., assignors.)						
Lehman, Joseph H., assignor to Lehman Manufacturing Company, Philadelphia, Pa. Bicycle-lantern.	607,544	July 19	1872	389	84	401
Lehman Manufacturing Company. (See Lehman, Joseph H., assignor.)						
Lehmann, Adolph, Moorefield, assignor of one-half to F. F. Shilling, Tiro, Ohio. Combination kitchen-tool.	598,792	Feb. 8	1231	298	82	853
Lehmann & Mann. (See Rosler, Isidor, assignor.)						
Lehnerer, Michael. (See Appell, Jacob, assignor.)						
Lehrer, Harry, New York, N. Y. Car-fender.	610,238	Sept. 6	182	41	84	1477
Lehrer, Oscar. (See Kruppa and Lehrer.)						
Leibbrand, Theodore, Columbus, Ohio. Aerial navigation.	600,878	Mar. 22	2262	516	82	1702
Leibe, Henry L., Newark, and J. Goerk, Irvington, N. J. Case for spectacles or eyeglasses.	607,645	July 19	2059	429	84	436
Leidich, Peter C., Tamaqua, Pa. Self-acting bung.	599,788	Mar. 1	194	48	82	1252
Leidich, Peter C., Tamaqua, Pa. Box-fastener.	616,624	Dec. 27	2618	607	85	1973
Leigh, Alfred, Gognac, Kans. Staple.	609,032	Aug. 16	1608	383	84	998
Leigh, Richard A., assignor, by mesne assignments, to Consolidated Rubber Works, Boston, Mass. Apparatus for securing ends of bicycle-tires.	605,319	June 7	499	111	83	1447
Leigh, Richard A., assignor, by mesne assignments, to Consolidated Rubber Works, Boston, Mass. Appliance for use in constructing bicycle-tires.	612,357	Oct. 11	1357	328	85	272
Leigh, Richard A., assignor to National India Rubber Company, Bristol, R. I. Hollow tube for pneumatic tires.	612,358	Oct. 11	1358	328	85	272
Leigh, William H., Beaver Falls, Pa. Photographic-print washer.	605,229	June 7	322	74	83	1412
Leightham, Adlien, <i>et al.</i> (See Leightham, Joseph, assignor.)						
Leightham, Edward, <i>et al.</i> (See Leightham, Joseph, assignor.)						
Leightham, Harry, <i>et al.</i> (See Leightham, Joseph, assignor.)						
Leightham, Joseph, assignor of three fourths to J. Shaaber, Reading, and E. H., and A. Leightham, Conshohocken, Pa. Fender or guard for tramway-cars.	604,171	May 17	1735	390 391 330 331	83 85	987 1701
Leighton, Eugene R., Boston, Mass. Couch-bed.	615,994	Dec. 13	1412	331	82	1196
Leighton, James A., Waynesborough, Va. Office-indicator.	599,657	Feb. 22	2810	653	82	1196
Leighton Machine Company. (See Rice, John H., assignor.)						
Leighton, Richard B. H., Philadelphia, Pa. Permutation-lock.	601,519	Mar. 29	3377	765	82	1944
Leighton, Richard B. H., Philadelphia, Pa. Permutation-padlock.	612,359	Oct. 11	1358	329	85	272
Leiman, George W. (See Leiman, William H. and G. W.)						
Leiman, William H. and G. W., New York, N. Y. Button-boring machine.	603,854	May 10	1120	252	83	834
Leimbarg, Alexander J., New York, N. Y. Saddle for bicycles, &c.	612,546	Oct. 18	1673	398	85	345
Lein, John P., New York, N. Y. Mattress-frame.	613,378	Nov. 1	286	65	85	673
Lein, John P., New York, N. Y. Mattress-frame.	615,073	Nov. 29	3360	770	85	1327



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Leiner, Moritz, New York, N. Y. Polishing-brush	616,677	Dec. 27	2740	636	85	1998
Leisemen, John. (See Bowman, Willis M., assignor.)						
Leishman, David F., assignor to A. Strassman, Whitewater, L. V. Lewis, Sun Prairie, Wis., and S. S. Allen, Rockton, Ill. Corn-harvester	603,608	May 3	678	150 151 152	83	732
Leist, William, Norwood, Ohio. Field-spool-winding machine	609,620	Aug. 23	2718	634	84	1228
Leitch, Meredith. (See Serrell and Leitch.)						
Leitch, Meredith, Merchantville, N. J., assignor to Warren Webster & Company, of New Jersey. Thermostatic valve	604,403	May 24	2162	486	83	1089
Leitch, Meredith, Merchantville, N. J., assignor to Warren Webster & Company, of New Jersey. Steam heating apparatus	614,658	Nov. 22	2562	583	85	1157
Leiter, Mack A., Sadorus, Ill. Wagon-box clamp	615,563	Dec. 6	648	148	85	1538
Lejeune, Henry E., Thibodeaux, La. Toy	609,941	Aug. 30	3264	762	84	1349
Leland, John A., Miller's Falls, assignor to Miller's Falls Company, Ewing, Mass. Nail-extractor	612,853	Oct. 25	2267	541	85	477
Leman, Henry W. (See Gillett, Clarence R., assignor.)						
Lembke, Georg, Berlin, Germany. Manufacturing colored molded ornamentations on sugar articles or confectionery	615,191	Nov. 29	3562	820	85	1366
Lemen, Ernest, <i>et al.</i> (See Boyd, George R., assignor.)						
Lemley, Louis E. (See Raymond and Lemley.)						
Lemon, Albert. (See Eidson and Lemon.)						
Lempert, William S., Marfa, Tex. Device for raising water	599,658	Feb. 22	2812	653 654	82	1196
Lendler, Joseph A., <i>et al.</i> (See Reed, James, assignor.)						
Leng's Son & Co., John S. (See Raczek, Paul, assignor.)						
Lenihan, Patrick, New York, N. Y. Armored pneumatic tire for bicycles	616,121	Dec. 20	1664	389	85	1767
Lenk, Carl P., <i>et al.</i> (See Varley, Thomas W., assignor.)						
Lenk, Rudolph A., <i>et al.</i> (See Varley, Thomas W., assignor.)						
Lennart, Pehr J., Stamford, Conn. Door-check	615,074	Nov. 29	3361	770 771	85	1327
Lennart, Pehr J., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Door-check	608,462	Aug. 2	523	117	84	759
Lennon, George H. (See Hall and Lennon.)						
Lennon, Nellie M., Bridgeport, Conn. Combined corset-retainer and stocking-supporter	606,064	June 21	1904	438	83	1749
Lennox, Robert N., London, England. Making ammonium nitrate	597,006	Jan. 11	964	82	82	204
Lenormand, Joseph, San Francisco, Cal. Safety attachment for demijohns	607,935	July 26	2612	555	84	558
Lenox, David A. (See Merritt and Lenox.)						
Lentz, Charles B., North Tonawanda, N. Y. Pump for inflating pneumatic tires	610,991	Sept. 20	1529	351	84	1771
Lentz, Charles G. (See Loudermilk, Henry C., assignor.)						
Lenzen, Bernhard, New York, N. Y. Liquid-measure indicator	611,755	Oct. 4	282	67	85	58
Lenzner, Franklin, Cass City, Mich. Motor-fan	616,712	Dec. 27	2806	650	85	2011
Leonard, Annie G., McMinnville, Tenn. Device for separating and removing threads from woven fabrics	598,732	Feb. 8	1144	275	82	837
Leonard, Bennie C., Brockton, Mass. Bicycle-support	615,995	Dec. 13	1416	331	85	1701
Leonard, Charles H., Grand Rapids, Mich. Refrigerator	597,725	Jan. 25	2184	510	82	475
Leonard, Charles N., assignor of one-half to W. B. Dyer, Indianapolis, Ind. Embossing-machine	602,560	Apr. 19	1671	380	83	346
Leonard, Eloy R., New York, N. Y. Fireproof partition	609,685	Aug. 23	2838	663	84	1253
Leonard, Fred P., assignor to Dighton Furnace Company, Taunton, Mass. Furnace for heating buildings	608,054	July 26	2336	604	84	605
Leonard, Gardner C., Albany, N. Y. Muff	610,187	Sept. 6	66	13	84	1453
Leonard, George F., Fairmont, W. Va. Twist-drill and socket	611,494	Sept. 27	2492	575	84	1971
Leonard, Harry W., New York, N. Y. Manufacturing rheostats, electric heaters, &c	598,568	Feb. 8	859	206	82	784
Leonard, Harry W., East Orange, N. J. Rheostat	603,063	Apr. 26	2542	578	83	527
Leonard, Harry W., East Orange, N. J. Method of and means for controlling energy delivered to translating devices	611,970	Oct. 4	648	157	85	127
Leonard, Henry W., <i>et al.</i> (See Davis, Orin C., assignor.)						
Leonard, John H., Leonard Station, Cal. Air-compressing wave-motor	606,561	June 28	2838	654	83	1952
Leonard, Louis N., Butte, Mont. Combined nut and pipe wrench	599,001	Feb. 15	1592	378	82	939
Leonard, Norris C., McMinnville, Tenn. Embroidery-frame	597,007	Jan. 11	965	228	82	204
Leonard, Peter M., Thorp, Wis. Combined hay rake and loader	616,340	Dec. 20	2089	486 487	85	1852
Leonard, Sylvester S., Chicago, Ill. Clamp for electric wires	609,888	Aug. 30	3176	744	84	1332
Leonard, William B., Wallace, Ind. Agricultural implement	612,133	Oct. 11	961	232 233	85	198
Leonard, William B., Wallace, Ind. Portable grain-dump	615,862	Dec. 13	1160	271	85	1652
Leonard, William E., and C. O. Hescox, assignors to Washington Dishwasher Company, Tacoma, Wash. Dish-cleaner	607,515	July 19	1819	378 379	84	391
Leonard, William K., Piqua, Ohio. Producing rubber substitutes and compositions of matter therefor	615,863	Dec. 13	1162	-----	85	1652
Leonard, William K., Piqua, Ohio. Producing rubber substitutes and compositions of matter therefor	615,864	Dec. 13	1163	-----	85	1653
Leonhardt, Herman. (See Ortmann, John H. W., assignor.)						
Leonhardt, Herman. (See Wunderlich, Herman, assignor.)						
Leonhardt, William, Baltimore, Md. Dumping-wagon	607,249	July 12	1161	248	84	239
Leonhardt, William F., Omaha, Nebr. Sounding-board for pianos	602,992	Apr. 26	2434	555	83	507
Leonhart, Rudolph, Jr., Fresno, Cal. Windmill	601,972	Apr. 5	677	143 144	83	128
Leopold, Harry G., assignor of one-half to E. Lavens, New York, N. Y. Signal apparatus	611,638	Oct. 4	83	20, 21	85	19
Leopold, Wilhelm, Stuttgart, Germany. Newspaper-binder	600,541	Mar. 15	1700	389	82	1583
Leppert, Henry, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Antifriction-washer for hinges	605,105	June 7	66	19	83	1365
Leppik, Eduard, Warsaw, Russia. Centrifugal steam and water separator	608,463	Aug. 2	525	117	84	760
Lernet, Norbert, Vienna, Austria-Hungary. Luggage-carrying apparatus	610,654	Sept. 13	931	215 216	84	1637
Lerro, Angelo R., Philadelphia, Pa. Stringed musical instrument	600,586	Mar. 15	1774	405	82	1596
Léry, Joseph B. de, New York, N. Y. Incandescent gas-burner	597,803	Jan. 25	2333	545	82	503
Lesage, Louis C. G., Paris, France. Engraving-machine and color-chart	596,816	Jan. 4	636	146	82	123
Leseman, Frederick. (See Leseman, Harry F. and F.)						
Leseman, Harry F. and F., Millvale, Pa. Milk-can lock	614,732	Nov. 22	2702	616	85	1184
Leshner, Charles P., Lansing, Mich. Acetylene-gas generator	613,689	Nov. 8	817	187	85	792
Leslie, Alexander F. W. (See Turner and Leslie)						
Leslie, George H., <i>et al.</i> (See Folwell, Philip C., assignor.)						
Leslie, Leon M., New York, N. Y., assignor to William Mann Company, Philadelphia, Pa. Temporary binder	603,428	May 3	320	72	83	661



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Leslie, Noble B., Cleveland, Ohio, assignor to R. M. Aylworth, South Haven, Mich. Fence-stay and fastener.....	611,639	Oct. 4	86	21	85	19
Lesnick, Samuel, New York, N. Y., assignor of one-half to M. Cherwinsky, Cambridge, Mass. Stem winding and setting watch.....	598,522	Feb. 8	783	188	82	768
Lesperance, Alexander. (See Worrall and Lesperance.)						
Lessing, Otto. (See Schirm, Carl C., assignor.)						
Lester, Allen H., assignor to Torrey Roller Bushing Works, Bath, Me. Bicycle-bell.....	607,936	July 26	2613	555	84	559
Lester, Daniel M., Norwich, Conn. Bicycle-brake.....	612,044	Oct. 11	809	199	85	169
Lester, James S., assignor of one-fourth to H. C. Beermann, Atlanta, Ga. Driving-gear for vehicles.....	616,122	Dec. 20	1666	389	85	1767
Lester, William H., Wethersfield, and G. E. Smart, Hartford, Conn., assignors to Casket-Lowering Company, of Connecticut. Casket-lowering apparatus.....	609,586	Aug. 23	2639	617 618	84	1214
Lett, Robert C. W. (See Rabbi and Lett.)						
Letton, Raphael E., Quincy, Ill. Device for correcting sounding-boards in upright pianos.....	605,729	June 14	1218	282	83	1604
Leu, Frederick, College Point, assignor to F. Mainella, New York, N. Y. Billiard-cue.....	605,253	June 7	374	84	83	1422
Leuckert, William, Brooklyn, N. Y. Lamp for bicycles.....	606,974	July 5	583	128	84	116
Leuckert, William, New York, N. Y. Reflector for lamps.....	614,733	Nov. 22	2703	616	85	1184
Leutz, Theodore. (See Richard, Frederic, assignor.)						
Levalley, Christopher W., Milwaukee, Wis. Drive-chain.....	609,153	Aug. 16	1841	438	84	1041
Levalley, Christopher W., Milwaukee, Wis. Chain.....	615,285	Dec. 6	118	32	85	1496
Levasseur, Georges. (See Rudolph and Levasseur.)						
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Bicycle crank-shaft.....	608,369	Aug. 2	356	78	84	727
Leveille, Mitchell H., assignor of one-half to J. G. Smith, Worcester, Mass. Self-threading loom-shuttle.....	605,690	June 14	1161	268	83	1594
Levene, Abraham and E., Philadelphia, Pa. Cloth-cutting machine.....	601,608	Mar. 29	3508	800	82	1970
Levene, Emil. (See Levene, Abraham and E.)						
Levi, Lewis, Newark, N. J. Bicycle bundle-strap.....	610,847	Sept. 13	1267	292	84	1705
Levie, Charles A., Westfield, Mass. Machine for unwinding binding-ropes from whipstocks.....	597,614	Jan. 18	1994	464	82	423
Levinson, Julius, and B. Rosenberg, Chicago, Ill. Conveying apparatus for slaughtered animals.....	597,853	Jan. 25	2410	561	82	518
Levinstein, Ivan, and C. Mensching, assignors to Levinstein, Limited, Manchester, England. Making alphylamidonaphthol-sulfonic acids.....	616,123	Dec. 20	1667		85	1767
Levinstein, Limited. (See Levinstein and Mensching, assignors.)						
Levitt, Harry. (See Gillette, Phineas E., assignor.)						
Levoz, Toussaint, Brussels, Belgium. Casting-ladle for steel and iron.....	612,134	Oct. 11	964	233	85	198
Levoz, Toussaint, Brussels, Belgium. Converter.....	613,820	Nov. 8	1072	243	85	840
Levy, Dreyfus & Co. (See Frahl, Charles, assignor.)						
Lévy, Léon, assignor to Compagnie Anonyme des Forges de Chatillon et Commentry, Paris, France. Pouring metal ingots.....	612,610	Oct. 18	1815	430 431	85	373
Levy, Max, Philadelphia, Pa. Photographic-camera stand.....	604,990	May 31	3193	735	83	1304
Levy, Samuel, Memphis, Tenn. Hat-box.....	611,133	Sept. 20	1791	411 412	84	1821
Levyn, Reuben G. (See Broad, Harry L., assignor.)						
Lewellyn, Lucien C., Pittsburg, Pa. Wheel-swing.....	598,052	Jan. 25	2746	640	82	583
Lewes, Vivian B., London, England, assignor of one-half to W. W. Goodwin, Philadelphia, Pa. Process of and apparatus for producing gas.....	615,997	Dec. 13	1421	332	85	1702
Lewes, Vivian B., London, England, assignor of one-half to W. W. Goodwin, Philadelphia, Pa., and E. Stein, New York, N. Y. Method of and apparatus for manufacturing gas.....	615,996	Dec. 13	1418	332	85	1702
Lewin, Julius L., et al. (See McKnight, John W., assignor.)						
Lewin, Marcus, et al. (See McKnight, John W., assignor.)						
Lewin, Maurice S., et al. (See McKnight, John W., assignor.)						
Lewin, Philip, et al. (See McKnight, John W., assignor.)						
Lewis, Abraham W., Asbury Park, N. J. Bicycle-support.....	608,464	Aug. 2	527	117 118	84	760
Lewis, Arthur W., Crawford, Miss. Rail-joint plate and car-replacer.....	600,728	Mar. 15	2013	459	82	1642
Lewis, Benjamin. (See Lewis, Doran, and Lewis.)						
Lewis, Benjamin B., Bridgeport, Conn. Chimney-top draft-regulator.....	612,547	Oct. 18	1675	398	85	346
Lewis, Charles F. and P. F., Jamestown, N. Y. Self-measuring tank for liquids.....	613,690	Nov. 8	819	188	85	793
Lewis, Clinton C. (See Stiles, Archibald, assignor.)						
Lewis, Edward D., assignor to W. C. Shields, St. Louis, Mo., and Cannon Chemical Company, of Missouri. Disinfecting apparatus.....	598,053	Jan. 25	2748	641	82	583
Lewis, Evan J. (See Lewis, Doran, and Lewis.)						
Lewis, Everett C. (See Williams, Hoadley, and Lewis.)						
Lewis Foundry and Machine Company. (See Gorman, Frank, assignor.)						
Lewis, Frank E., Jefferson, Tex. Telegraph-key.....	611,919	Oct. 4	563	136	85	111
Lewis, Frank H., New Haven, Conn. Paste composition for saving gold-leaf.....	616,791	Dec. 27	2942		85	2039
Lewis, Fred M. (See Eastman, John P., assignor.)						
Lewis, George, Denbigh, England. Slide-signal.....	612,973	Oct. 25	2461	587	85	516
Lewis, George, assignor of two-thirds to J. B. B. Broadway and D. A. Smith, Cobden, Ill. Cultivator.....	610,546	Sept. 13	755	172	84	1599
Lewis, George E. M., Truro, Canada. Machine for cutting shoe-shank stiffeners.....	607,602	July 19	1980	411	84	420
Lewis, George E. M., Truro, Canada. Veneer-cutting machine.....	609,513	Aug. 23	2510	587	84	1190
Lewis, George H. (See Labatt and Lewis.)						
Lewis, George H., Minneapolis, Minn. Spring-motor.....	597,541	Jan. 18	1871	433	82	398
Lewis, George W., Chicago, Ill. Motor-vehicle.....	604,237	May 17	1849	414 415	83	1008
Lewis, George W., Chicago, Ill. Vehicle-motor.....	604,332	May 17	2033	455 456	83	1044
Lewis, George W., Chicago, Ill. Vehicle-motor.....	609,443	Aug. 23	2371	559	84	1164
Lewis, George W., and L. C. Godwin, Portsmouth, assignors of one-third to C. A. Nash, Norfolk, Va. Car-axle journal-box.....	599,944	Mar. 1	505	114	82	1308
Lewis, George W., and L. C. Godwin, Portsmouth, assignors of one-third to C. A. Nash, Norfolk, Va. Car-axle journal-box.....	615,724	Dec. 13	928	216	85	1607
Lewis, Harry A., assignor of three-fifths to J. T. Dyer, Norristown, Pa. Electric cut-out.....	607,250	July 12	1162	248	84	239
Lewis, Harry A., assignor of three-fifths to J. T. Dyer, Norristown, Pa. Fuse-holder, circuit-breaker, and lightning-arrester.....	607,251	July 12	1164	249	84	240
Lewis, Isaac N., Fort Wadsworth, N. Y., assignor to Driggs-Seabury Gun and Ammunition Company, of New Jersey. Range and position finder.....	600,083	Mar. 1	828	191	82	1376
Lewis, Isaac N., Fort Wadsworth, N. Y., assignor to Driggs-Seabury Gun and Ammunition Company, of New Jersey. Range and position finder.....	600,084	Mar. 1	833	191 192	82	1377
Lewis, James H., and J. M. Courtney, Kansas City, Mo. Car-fender.....	607,444	July 19	1515	323	84	326
Lewis, John A. (See Fredrickson, August, assignor.)						
Lewis, John A., Meridian, Miss. Machine for cleaning cotton-seed.....	603,448	May 3	353	80	83	668



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Lewis, John F., Scranton, Pa., assignor to Lackawanna Lubricating Company, of Pennsylvania. Lubricator	609,444	Aug. 23	2374	560	84	1165
Lewis, John G., St. Louis, Mo. Child's garment	596,520	Jan. 4	107	24	82	22
Lewis, Joseph S., and F. J. Howitt, assignors to P. R. Jackson & Company, Limited, Manchester, England. Dynamo-electric machinery	614,964	Nov. 29	3143	<div>721 722 723</div>	<div>85</div>	1288
Lewis, Ledyard V., <i>et al.</i> (See Leishman, David F., assignor.)						
Lewis, Miles K., Albany, Oreg. Gate	608,465	Aug. 2	528	118	84	760
Lewis, Mortimer G., New York, N. Y. Bench-vise	596,661	Jan. 4	359	79, 80	82	71
Lewis, Mortimer G., New York, N. Y. Bench-vise	605,106	June 7	67	19	83	1365
Lewis, Mortimer G., New York, N. Y. Bench-vise	605,107	June 7	68	19	83	1365
Lewis, Mortimer G., New York, N. Y., assignor to Lewis Tool Company, of New York. Vise	597,681	Jan. 18	2107	493	82	443
Lewis, Nathaniel D., Joliet, Ill. Tin plating and polishing machine	597,778	Jan. 25	2281	533	82	493
Lewis, Nathaniel D., Joliet, Ill. Machine for polishing tin and terne plates	599,568	Feb. 22	2631	<div>616 617</div>	<div>82</div>	1159
Lewis, Nathaniel H. (See Lurye, Henry I., assignor.)						
Lewis, Perrin F. (See Lewis, Charles F. and P. F.)						
Lewis, Thomas E., Dublin, Tex. Acetylene-gas generator	606,673	July 5	71	15	84	16
Lewis, Thomas E., Dougherty, Ind. Ter. Acetylene-gas generator	606,674	July 5	73	15	84	17
Lewis, Thomas H., J. Doran, and B. and E. J. Lewis, Pittsburg, Pa. Machine for doubling and shearing plates	611,134	Sept. 20	1792	<div>412 413</div>	<div>84</div>	1821
Lewis, Thomas J. (See Hirst, Samuel E., assignor.)						
Lewis Tool Company. (See Lewis, Mortimer G., assignor.)						
Lewis, Wallace J., St. Louis, Mo. Direct-acting engine	598,154	Feb. 1	134	31	82	628
Lewis, Wallace J., and P. H. Murphy, St. Louis, Mo. Machine for truing locomotive driving-wheels	598,155	Feb. 1	138	32	82	629
Lewis, Warren B., Providence, R. I. Hoisting-machine	600,729	Mar. 15	2014	459	82	1642
Lewis, Warwick J., H. Pearce, and C. Holliwell, Manchester, England, assignors to Mergenthaler Linotype Company, New York, N. Y. Justifying mechanism for linotype-machines	614,561	Nov. 22	2375	543	85	1124
Lewis, William. (See Turner, Thomas L., assignor.)						
Lewis, William C., Washington, D. C. Fireproof ceiling and floor	610,070	Aug. 30	3497	810	84	1396
Lewis, William J. (See Desbain, Antoine, assignor.)						
Lewis, William T., assignor to Mitchell & Lewis Company, Limited, Racine, Wis. Vehicle-hub	606,850	June 28	2452	568	83	1875
Lewitzki, Ladislas V., assignor to Compagnie Internationale pour l'Allumage et l'Extinction Instantanée du Gaz, Brussels, Belgium. Electric lighter for gas-burners	601,351	Mar. 29	3089	698	82	1887
Lewkowicz, Anthony J., Bayonne, N. J. Heater for water, &c	612,668	Oct. 18	1915	453	85	391
Leyendecker, Thomas A., Laredo, Tex. Instrument for breaking car-seals	605,730	June 14	1219	282	83	1605
Leyner, John G., Denver, Colo. Rock-drill engine	604,538	May 24	2424	551	83	1135
Leyner, John G., Denver, Colo. Drill for starting holes in rocks	609,107	Aug. 16	1771	421	84	1028
Leyner, John G., Denver, Colo. Air-inlet valve for air-compressors	610,608	Sept. 13	861	197	84	1622
Libbey, Hosea W., Boston, Mass. Electric railway	597,202	Jan. 11	1296	303	82	268
Libbey, Hosea W., Boston, Mass. Knob attachment	598,426	Feb. 1	623	153	82	721
Libbey, Hosea W., Boston, Mass. Sled-propeller	600,851	Mar. 15	2214	505	82	1681
Libbey, Hosea W., Boston, Mass. Electric railway	602,584	Apr. 19	1712	389	83	354
Libbey, Hosea W., Boston, Mass. Hydrocarbon-oil-gas stove	603,010	Apr. 26	2463	560	83	512
Libbey, Hosea W., Boston, Mass. Life-saving apparatus for street-cars	613,691	Nov. 8	820	188	85	793
Libbey, Hosea W., Boston, Mass. Trolley for electric cars	614,875	Nov. 29	2963	680	85	1250
Libbey, Leon D., Duluth, assignor to D. C. Prescott, West Duluth, Minn. Dredging and mining pump	599,104	Feb. 15	1759	<div>418 419</div>	<div>82</div>	972
Libby, George H. (See Poor, George H., assignor.)						
Libby, Peter M., Waterville, Me. Thread-guide	609,282	Aug. 16	2097	497	84	1092
Libby, Sam H., and W. B. Potter, Schenectady, N. Y., assignors to General Electric Company, of New York. Governor for air-compressors	613,692	Nov. 8	821	<div>188 189</div>	<div>85</div>	793
Libby, William J., St. Louis, Mo. Razor-hone holder	607,516	July 19	1821	379	84	392
Libke, Frederick G., <i>et al.</i> (See Craig, William S., assignor.)						
Libler, Valentine. (See Dolan, Lawrence H., assignor.)						
Lichtenberger, Eduard E. (See Chaloner and Lichtenberger.)						
Lichtenstein, Simon, <i>et al.</i> (See Herdrich, William F., assignor.)						
Lichtentag, Alexander. (See Lichtentag, Isaac and A.)						
Lichtentag, Isaac and A., assignors of one-fourth to S. Weis, New Orleans, La. Writing-ink	614,734	Nov. 22	2705	-----	85	1184
Lichtig, Bernhard, <i>et al.</i> (See Ecker, Herman, assignor.)						
Liddell, John P. (See Hawthorn and Liddell.)						
Liddell, Patrick J. (See Vosper, Charles W., assignor.)						
Liddle, Dell, <i>et al.</i> (See Keeler, Charles S., assignor.)						
Liddy, John E., Clayton, N. Y. Means for making seams of vessels fluid-tight	613,693	Nov. 8	824	189	85	794
Lieb, William J., Pratt, Minn. Pneumatic attachment for telegraph-keys	604,770	May 31	2837	649	83	1234
Liebau, Gustav, Maurer, N. J. Fireproof floor and ceiling	608,598	May 3	644	144	83	726
Lieber, Albert C. (See Gruhn and Stolpner, assignors.)						
Liebig, Louis. (See Liebig, Peter, assignor.)						
Liebig, Peter, Frankfurt-on-the-Main, Germany, assignor to L. Liebig, St. Louis, Mo. Flushing apparatus	610,683	Sept. 13	975	226	84	1646
Lieblang, John, Amityville, N. Y. Churn	606,806	July 5	326	67, 68	84	65
Liebreich, Hans, assignor to C. Volz, Detroit, Mich. Corner-plate	599,395	Feb. 22	2300	543	82	1096
Liebreich, Mathias E. O., Berlin, Germany. Making artificial butter	611,495	Sept. 27	2493	-----	84	1972
Lieux, Raphaël, New Roads, La. Hat	609,514	Aug. 23	2511	587	84	1190
Liezen, Gerritt J., Hingham, Wis. Potato-digger	612,854	Oct. 25	2268	<div>541 542</div>	<div>85</div>	477
Liggins, William, Coventry, England. Guard for velocipedes	615,865	Dec. 13	1164	271	85	1653
Lightbody, James. (See Burns, Joseph H., assignor.)						
Lightcap, William H., Hazel Green, Wis. Clevis	602,022	Apr. 5	748	161	83	142
Lighthouse, Lavine A., Olney, Pa. Brush	605,230	June 7	323	74	83	1412
Lighthiser, George, Toledo, Ohio. Fastening device for car-doors, &c	613,013	Oct. 25	2521	600	85	528
Lightner, Charles E., San Antonio, Tex. Spring attachment for suspensors	611,262	Sept. 27	2038	470	84	1887
Likins, Nelson, assignor of two-fifths to T. H. Stevens, Minneapolis, Minn. Acetylene-gas generator	616,124	Dec. 20	1668	389	85	1767
Likins, William H., assignor of one-half to L. Blessing, Jackson, Mich. Separator and purifier	608,880	Aug. 9	1299	303	84	926
Lilley, Fred C. (See Lilley, John W. and F. C.)						
Lilley, John W. and F. C., Bainbridge, N. Y. Stove or furnace	613,379	Nov. 1	288	65, 66	85	673
Lillibridge, De Forest. (See Whiting and Lillibridge.)						
Lillie, William F., Beatrice, Nebr. Adjustable corn-husker	604,476	May 24	2312	525	83	1117
Limpach, Ludwig, assignor to L. F. Riedel, Berlin, Germany. Making salicylo-acetic acid	611,014	Sept. 20	1566	-----	84	1778



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Linahan, Thomas H., New Haven, Conn. Casket.....	606,466	June 28	2667	614	83	1918
Lincoln, Albert L., Bethel, Vt. Garment-holder.....	603,335	May 3	162	37	83	633
Lincoln, Ames A., <i>et al.</i> (See Shaw, Henry F., assignor.)						
Lincoln, Clinton E., Morehead City, N. C. Step-ladder.....	600,730	Mar. 15	2016	459	82	1642
Lincoln, George E., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype and matrix for making same.....	604,404	May 24	2164	486	83	1090
Lincoln, Isaac N., Providence, R. I. Tooth-brush.....	611,788	Oct. 4	338	81	85	69
Lincoln, John W., <i>et al.</i> (See Shaw, William G., assignor.)						
Lincoln, Robert, St. Louis, Mo. Submarine boat.....	615,866	Dec. 13	1165	272	85	1653
Lincoln, Robert B. (See Hardy, Alvah E., assignor.)						
Lincoln, Sylvester D., Elvaston, Ill. Pencil-sharpener.....	600,542	Mar. 15	1701	389 390	82	1583
Lind, Aaron A., Canton, Ohio. Counter-stool.....	598,105	Feb. 1	63	15	82	614
Lind, Charles H., Canton, Ohio. Counter or table stool.....	610,143	Aug. 30	3607	838	84	1419
Lind, Eugene, Chicago, Ill. Water-purifier.....	598,635	Feb. 8	977	236	82	805
Lind, John W., assignor of one-half to J. J. Morris, Boston, Mass. Pipe-wrench.....	602,340	Apr. 12	1297	288	83	261
Lindas, Hans, Edgerton, Wis. Tongs.....	597,649	Jan. 18	2048	479	82	433
Lindberg, Andrew H. and F. J., New York, N. Y. Furnace for heating rivets or for similar uses.....	603,470	May 3	405	91	83	679
Lindberg, Charles A. (See Calkins and Lindberg.)						
Lindberg, Fritz J. (See Lindberg, Andrew H. and F. J.)						
Lindbergh, Nicols, assignor of one-half to J. P. Larson, Nelson, Minn. Bottle-stopper.....	606,290	June 28	2339	541	83	1853
Linde, George, Omaha, Nebr. Composition for removing boiler incrustations.....	605,320	June 7	500	-----	83	1448
Linde, Heinrich von der, Crefeld, Germany. Electrolytic separation of metals.....	612,250	Oct. 11	1177	-----	85	238
Lindemann, Hermann, Reichenbach, Germany. Grinder.....	602,860	Apr. 26	2204	499	83	464
Lindemeyr, Philip, Baltimore, Md. Water-heater.....	609,357	Aug. 16	2217	524	84	1116
Lindemeyr, Philip, Baltimore, Md., assignor to Monarch Manufacturing Company of Baltimore City. Machine for capping bottles.....	603,107	Apr. 26	2630	597	83	543
Lindemeyr, Philip, Baltimore, Md., assignor to Monarch Manufacturing Company of Baltimore City. Bottle.....	603,108	Apr. 26	2631	597 598	83	544
Lindemeyr, Philip, Baltimore, Md., assignor to Monarch Manufacturing Company of Baltimore City. Bottle-stopper.....	603,364	May 3	204	46	83	641
Lindemeyr, Philip, Baltimore, Md., assignor to Monarch Manufacturing Company of Baltimore City. Art of and apparatus for introducing and securing packing in bottle-caps.....	615,725	Dec. 13	930	216	85	1608
Lindemeyr, Philip, Baltimore, Md., assignor, by mesne assignments, to C. W. Shoemaker, Bridgeton, N. J. Bottle-cap fastener.....	609,393	Aug. 16	2285	540 541	84	1129
Linden, John, Chicago, Ill. Car-coupling.....	597,615	Jan. 18	1995	465	82	423
Lindenthal, Gustav, assignor to O. H. Cutler, New York, N. Y. Construction of tension members for bridges, &c.....	608,690	Aug. 9	938	216	84	861
Lindh, Charles E., assignor of one-fourth to M. B. Hyde, Philadelphia, Pa. Combination table and bed.....	609,763	Aug. 23	2948	690	84	1274
Lindfield, S. E. (See Jordan, Wallace, assignor.)						
Lindley, Alva A., Oskaloosa, Iowa. Track-sanding apparatus.....	608,881	Aug. 9	1302	303	84	926
Lindley, Eveline C., Bridgeport, Conn., assignor to Eagle Pencil Company, New York, N. Y. Holder for pencils, &c.....	599,616	Feb. 22	2720	636	82	1176
Lindley, Zachary M., and W. H. Sterrett, Carthage, Mo.; said Lindley assignor to said Sterrett. Broom-bridle.....	600,731	Mar. 15	2017	459	82	1642
Lindner, Arthur E., Wilmington, Del., assignor to J. Kayser, New York, N. Y. Circular-warp-knitting machine.....	606,351	June 28	2453	568 569 570	83	1876
Lindner, Arthur E., Wilmington, Del., assignor to J. Kayser, New York, N. Y. Circular-warp-knitting machine.....	606,352	June 28	2461	571 572	83	1877
Lindner, Arthur E., Wilmington, Del., assignor to J. Kayser, New York, N. Y. Circular-warp-knitting machine.....	606,353	June 28	2465	572 573	83	1878
Lindner, Ernst, New York, N. Y. Multiple incandescent gas-burner.....	611,756	Oct. 4	283	67, 68	85	58
Lindner, Ernst, assignor to P. W. Remig, New York, N. Y. Incandescent gas-lamp.....	615,286	Dec. 6	120	32	85	1436
Lindner, Richard E., Hamburg, and J. H. F. Ziegenbein, Altona, Germany. Apparatus for withdrawing liquids from vessels.....	597,292	Jan. 11	1430	336	82	294
Lindroth, Carl O. (See Helander and Lindroth.)						
Lindsay, Clarence A., Washington, D. C. Photographic-plate holder.....	613,068	Oct. 25	2614	619	85	547
Lindsay, Cora A. W., Pittsburg, Pa. Combined garment and hose support.....	605,108	June 7	69	20	83	1365
Lindsay, Eli E., <i>et al.</i> (See Morris, Thomas E., assignor.)						
Lindsay, John. (See Fick, Thomas A., assignor.)						
Lindsay, Thomas J., Lafayette, Ind. Bicycle driving-gear.....	611,329	Sept. 27	2168	501 502	84	1912
Lindsay, Thomas J., Lafayette, Ind. Motor-vehicle.....	612,360	Oct. 11	1360	329 330	85	272
Lindsay, Thomas W. A. (See Rankin, Hiram F., assignor.)						
Lindsay, William B., and W. E. Tonner, Steubenville, Ohio. Filter.....	614,480	Nov. 22	2253	516	85	1102
Lindsey, John M., Crystal Springs, Ga. Fertilizer-distributor.....	608,055	July 26	2837	605	84	605
Lindsey, Dudley A., assignor to J. Victor, Winona, Minn. Collapsible stand.....	597,854	Jan. 25	2412	562	82	519
Lindsey, Warren, Frederic, Kans. Draft-equalizer.....	603,959	May 10	1293	295	83	868
Lindstam, Swan F., Minneapolis, Minn. Stable.....	600,433	Mar. 8	1468	335	82	1519
Lindvall, John F., Moline, Ill. Watch-dial fastener.....	598,523	Feb. 8	785	188	82	768
Lindwall, Erick L., Kennedy, N. Y. Dovetailing-machine.....	601,272	Sept. 6	233	52	84	1487
Line, Albert E., Cowes, England. Shackle.....	614,014	Nov. 8	1382	317	85	902
Linendoll, Orin J. (See Kelly and Linendoll.)						
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Oiler.....	605,321	June 7	501	111	83	1448
Lines, William S., Warren, Ind. Umbrella and holder.....	602,760	Apr. 19	2017	457	83	412
Linfield, Moses A., Newark, N. J., assignor to Interchangeable Last and Tree Company, of New Jersey. Last and tree-foot combined.....	596,712	Jan. 4	456	103	82	89
Lingard, George A. (See Grundy and Lingard.)						
Lingner, Karl A. (See Kirschen, Paul, assignor.)						
Linich, Frank A., New York, N. Y. Pipe joint and connection.....	608,613	Aug. 9	794	183	84	831
Link-Belt Engineering Company. (See Dodge, James M., assignor.)						
Link-Belt Engineering Company. (See Piez, Charles, assignor.)						
Link-Belt Machinery Company. (See Davis, Charles E., assignor.)						
Link, Felix D. (See Cox and Link.)						
Link, John J., St. Louis, Mo. Centrifugal ore-separator.....	612,503	Oct. 18	1599	382	85	331
Linke, Emil F., Hartford, Conn., assignor to Thorne Typesetting Machine Company, of New Jersey. Indexing device for type-setting machines.....	614,659	Nov. 22	2564	584	85	1157
Linke, Emil F., Hartford, Conn., assignor to Thorne Typesetting Machine Company, of New Jersey. Lead-extracting device for type-distributing machines.....	614,660	Nov. 22	2566	584	85	1157
Linke, Emil F., Hartford, Conn., assignor to Thorne Typesetting Machine Company, of New Jersey. Type-channel follower.....	614,661	Nov. 22	2569	584	85	1158



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Linke, Emil F., and G. L. Willey, Hartford, Conn., assignors to Thorne Typesetting Machine Company, of New Jersey. Type-separating machine	614,662	Nov. 22	2571	585	85	1158
Linke, Theodore, New York, N. Y. Sanitary cesspool and trap	600,732	Mar. 15	2018	586 460	82	1642
Linley, Charles M., London, England. Coin-controlled game apparatus	605,494	June 14	804	185 186	83	1528
Linn, Allen B., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	599,671	Feb. 22	2833	658	82	1200
Linn, Allen D., assignor to Grand Rapids School Furniture Company, Grand Rapids, Mich. Clamp for school-desks	598,674	Feb. 8	1044	251	82	817
Linn, Allen D., assignor to Grand Rapids School Furniture Company, Grand Rapids, Mich. Kneeler for church-pews	612,135	Oct. 11	964	233	85	198
Linn, Allen D., assignor to Grand Rapids School Furniture Company, Grand Rapids, Mich. Combined desk and seat	615,867	Dec. 13	1167	272	85	1653
Linn, David. (See Ten Winkel, Herman, assignor.)						
Linn, John B., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric brake	610,908	Sept. 20	1375	315	84	1742
Lins, Richard. (See Günther, Adolf, assignor.)						
Linthicum, Sweetser, Jr., Wellham's Cross Roads, Md. Combined furrower, marker, and coverer	605,963	June 21	1713	393	83	1715
Linton, Harvey, Altoona, assignor of seven-sixteenths to T. H. Bowman, McKeesport, Pa. System of electrical distribution	597,855	Jan. 25	2413	562 563	82	519
Linton, John, and J. Burgher, Homer, Mich. Level	602,137	Apr. 12	942	206	83	190
Linton, Winford H. (See Wallace and Hilton, assignors.)						
Lippert, Agnes M., Philadelphia, Pa. Coin-controlled apparatus	613,163	Oct. 25	2757	649	85	575
Lippincott, Fisher H., Philadelphia, Pa. Lead-pencil	613,452	Nov. 1	434	99	85	699
Lippincott, Fisher H., Philadelphia, Pa. Pencil	613,453	Nov. 1	435	99	85	699
Lippincott, Fisher H., Philadelphia, Pa., assignor to American Soda Fountain Company, Trenton, N. J. Soda-water apparatus	610,188	Sept. 6	67	14	84	1453
Lippincott Glass Company. (See Dolan, Lawrence H., assignor.)						
Lippincott, James A., Liverpool, England. Disinfecting or perfuming air of water-closets	612,167	Oct. 11	1022	246	85	219
Lippitt, Charles N., Beloit, Wis. Acetylene-gas generator	616,546	Dec. 27	2487	576	85	1950
Lippitt, Charles N., Beloit, Wis. Acetylene-gas lamp	616,547	Dec. 27	2489	576	85	1951
Lippitt, Theodore C., Shenandoah, Iowa. Farm-gate	606,467	June 28	2668	615	83	1918
Lippmann, Gustav H., Milwaukee, Wis. Car-coupling	614,663	Nov. 22	2579	586	85	1159
Lipps, Christopher, Baltimore, Md. Soap-caking machine	600,434	Mar. 8	1470	335 336 337	82	1519
Lippy, David, Mansfield, Ohio. Meat-sawing machine	599,569	Feb. 22	2633	617	82	1160
Lippy, David, Mansfield, Ohio. Meat-sawing machine	599,570	Feb. 22	2635	617	82	1160
Lippy, David, Mansfield, Ohio. Meat-sawing machine	599,571	Feb. 22	2636	618	82	1160
Lippy, David, Mansfield, Ohio. Trolley	609,969	Aug. 30	3327	774	84	1362
Lishness, Lysander J., Bad Axe, Mich. Wagon-body	613,531	Nov. 1	648	150	85	739
Lisle, Myron C., assignor of eleven-twentieths to W. A. Berkey and J. Bayne, Grand Rapids, Mich. Magazine-gun	609,445	Aug. 23	2375	560	84	1165
Lisle, Myron C., assignor to National Projectile Works, Grand Rapids, Mich. Machine for applying jackets to projectiles	613,635	Nov. 1	735	171	85	757
List, Frederick J., Chelsea, Mass. Push-button	606,562	June 28	2842	654	83	1953
Lister & Co., R. A. (See Stokes, Alfred W., assignor.)						
Lister, John T., Cleveland, Ohio. Incandescent lamp	599,002	Feb. 15	1593	378	82	939
Lister, John T., Cleveland, Ohio. Incandescent electric lamp	599,910	Mar. 1	448	99	82	1298
Litchfield, Charles T., and J. T. Baugher, Spokane, Wash. Stove	604,991	May 31	3196	735	83	1304
Litchfield, William, London, England. Type	598,524	Feb. 8	787	188	82	768
Lithosite Manufacturing Company. (See Gallinowsky, Hugo, assignor.)						
Little, Alexander F., assignor of one-half to A. Armstrong, D. and F. McBrearty, M. F. and J. J. Reilly, Philadelphia, Pa. Valve	608,882	Aug. 9	1303	303	84	926
Little, Alexander F., assignor to A. S. Butz, R. L. Gibson, A. Armstrong, D. and F. McBrearty, M. F. Reilly, Philadelphia, and E. Brennan, Shamokin, Pa. Valve for pneumatic tires	612,855	Oct. 25	2272	542	85	478
Little, Charles H., Melrose, assignor to R. F. Herrick, trustee, Milton, Mass. Cash-registering machine	599,297	Feb. 15	2083	494	82	1031
Little, Clarence B. (See Johnston and Little.)						
Little, D. P. N., et al. (See Woodward, Walter J., assignor.)						
Little, D. P. N., et al. (See Woodward and Brett, assignors.)						
Little, Eugene J., Bluffton, Ind. Dumping-receptacle	607,603	July 19	1981	411	84	421
Little, Henry O., Bridgewater, Mass. Fruit box or basket	600,920	Mar. 22	2327	530	82	1714
Little, Joseph A., assignor of one-half to H. P. Simpson, Lawrence, Mass. Vehicle-propelling mechanism	605,731	June 14	1220	282 283	83	1605
Little, Orion A., Oxford, Kans. Automatic wagon-brake	616,058	Dec. 13	1528	357	85	1724
Little, Peter E., assignor to Ohio Rake Company, Dayton, Ohio. Cultivator	604,992	May 31	3198	736	83	1305
Little, Peter E., assignor to Ohio Rake Company, Dayton, Ohio. Disk harrow and cultivator	609,889	Aug. 30	3178	714	84	1333
Littlefield, Charles A., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp stop-motion for looms	600,008	Mar. 1	599	138	82	1326
Littlefield, Charles A., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	600,836	Mar. 15	2183	498	82	1674
Littlefield, Charles A., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Filling-carrier or cop-skewer for loom-shuttles	608,988	Aug. 9	1508	357	84	965
Littlefield, Charles A., Lowell, Mass., assignor to Draper Company, Portland, Me. Loom	607,937	July 26	2615	555	84	559
Littlefield, Charles A., Lowell, Mass., assignor to Northrop Loom Company, Saco, Me., and Hopedale, Mass. Shuttle-changing mechanism for looms	601,836	Apr. 5	400	84, 85	83	75
Littlejohn, John, Aurora, Ill. Strainer	599,617	Feb. 22	2721	636	82	1177
Littley, William, Philadelphia, Pa. Saw-set	616,194	Dec. 20	1817	420	85	1798
Livengood, Alexander S., Everson, Pa. Drier	599,509	Feb. 22	2523	593	82	1138
Livengood, David R., Tacitus, Tex. Disk harrow	603,449	May 3	355	80	83	668
Livingston, Andrew, et al. (See McNabb, Duncan, assignor.)						
Livingston, Samuel G., St. Louis, Mo. Running-gear for bicycles	598,525	Feb. 8	787	189	82	769
Livtschak, Joseph, Wilna, Russia. Apparatus for automatically recording unevenness in railway-tracks	610,848	Sept. 13	1267	293	84	1705
Lizé, Ernest, Paris, France. Safety-valve	611,496	Sept. 27	2494	575 576	84	1972
Lizotte, Joseph, Quincy, assignor of one-half to M. N. Bray, Boston, Mass. Gas-engine	600,675	Mar. 15	1922	437	82	1624
Lizotte, Joseph, Quincy, assignor of one-half to M. N. Bray, Boston, Mass. Igniting mechanism for explosive-engines	608,409	Aug. 2	436	96	84	743
Ljungström, Birger, Stockholm, Sweden. Chain disk or cam for bicycles	599,851	Mar. 1	331	74	82	1275
Ljungström, Fredrik, Stockholm, Sweden. Sail for boats	612,209	Oct. 11	1086	261	85	222



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Ljusne Woxna Aktiebolag. (See Holmberg, Per, assignor.)						
Llewellyn, L. W., <i>et al.</i> (See Haskins, Stanley O., assignor.)						
Lloyd, Arthur D., San Francisco, Cal. Folding tent	609,553	Aug. 23	2574	603	84	1202
Lloyd, Charles, Chicago, Ill. Steam-boiler	609,108	Aug. 16	1773	421 422	84	1028
Lloyd, Charles H., <i>et al.</i> (See Boland, Joseph, assignor.)						
Lloyd, Charles H., <i>et al.</i> (See Wagener, Otto E., assignor.)						
Lloyd, Clement E. (See Rosengarten, William, assignor.)						
Lloyd, Daniel, Cambridge, Md. Fruit-picker	609,515	Aug. 23	2512	588	84	1190
Lloyd, David, Rhondda, England. Bin and show-case for seeds, vegetables, &c	599,105	Feb. 15	1767	419	82	973
Lloyd, Edwin L., Philadelphia, Pa. Bottle-stopper	603,908	May 10	1213	275	83	852
Lloyd, H. Benjamin. (See Denham, Howard W., assignor.)						
Lloyd, Herbert S., Philadelphia, Pa. Storage battery	604,588	May 24	2514	572	83	1153
Lloyd, Herbert S., Philadelphia, Pa. Battery-electrode	612,649	Oct. 18	1880	446	85	384
Lloyd, James, Blandon, Pa. Wheel	606,868	July 5	436	93	84	86
Lloyd, James, Blandon, Pa. Vehicle-wheel	608,691	Aug. 9	940	216	84	861
Lloyd, John and W., and R. O. Jones, Pittston, Pa. Steam-eliminator	600,921	Mar. 22	2329	530	82	1714
Lloyd, John E., New York, N. Y. Rail-bond	610,909	Sept. 20	1377	316	84	1743
Lloyd, John M., assignor of one-half to G. W. Marquardt, Des Moines, Iowa. Copy-holder	600,922	Mar. 22	2331	530 531	82	1715
Lloyd, John U., Cincinnati, Ohio. Method of and apparatus for extracting nicotine	597,804	Jan. 25	2334	545	82	503
Lloyd, Marshall B. (See White and Lloyd.)						
Lloyd, Walter J., and W. Priest, Birmingham, England. Pedal for bicycles	598,675	Feb. 8	1045	251 252	82	818
Lloyd, William. (See Lloyd and Jones.)						
Lloyd, William A., Ashtabula, Ohio. Water-tube boiler	604,993	May 31	3200	736	83	1305
Lloyd, William A., and H. Keeling, Birmingham, England. Cycle-pedal	604,251	May 17	1878	421	83	1014
Lloyd, William B., School House, W. Va. Apple parer, corer, and divider	597,487	Jan. 18	1793	415	82	382
Lloyd, William H., assignor to Smith & Anthony Company, Boston, Mass. Water-closet bowl	609,992	Aug. 30	3375	784	84	1371
Lloyd, William R., New York, N. Y. Snow-plow	601,895	Apr. 5	526	109	83	99
Lo-Hi Sprocket Company. (See Featherstone, Willard B., assignor.)						
Löb, Jacob L., G. H. Barlow, Adelaide, and A. W. R. Drabsch, Mannum, South Australia. Bicycle driving-gear	599,106	Feb. 15	1768	420	82	973
Lobdell, Emons H., Mecosta, assignor of two-thirds to H. R. Walker and R. C. Smith, Ionia, Mich. Soap-holder for tubs	601,662	Apr. 5	68	13	83	14
Lobdell, Jared C., and A. Talcott, assignors of one-third to H. F. Hodge, Minneapolis, Minn. Stop-cock box	604,622	May 24	2568	585	83	1164
Lobdell, William W., Wilmington, Del. Treating chilled cast-iron car-wheels, rolls, &c	615,075	Nov. 29	3365	-----	85	1328
Lobe, Napoleon B., <i>et al.</i> (See Heatzman, Arthur H., assignor.)						
Lobee, Bart, assignor to B. F. Lobee, Buffalo, N. Y. Boat-detaching device	612,740	Oct. 18	2032	483	85	413
Lobee, Bart F. (See Lobee, Bart, assignor.)						
Loch, Joseph. (See Heydebrand und der Lasa and Loch.)						
Lochelougue, Jules. (See Masson and Lochelougue.)						
Lochmann, Paul, Leipsic-Gohlis, Germany. Collapsible vessel	598,676	Feb. 8	1047	252	82	818
Lochmann, Paul, Leipsic-Gohlis, Germany. Apparatus for keeping and sending liquid materials	609,970	Aug. 30	3328	774 775	84	1362
Lochmann, Paul, Leipsic, Germany. Apparatus for transporting and preserving liquids.	601,877	Apr. 5	497	102	83	93
Lochner, Lewis T., <i>et al.</i> (See Murphy, John F., assignor.)						
Lock, William H., London, and J. Place, Manchester, England, assignors to Mergenthaler Linotype Company, New York, N. Y. Molding mechanism for linotype-machines	614,562	Nov. 22	2377	544	85	1124
Locke, Benjamin T. (See Carley, Allen J., assignor.)						
Locke, Charles W., Lowell, Mass., assignor to American Mason Safety Tread Company, Saco, Me. Tread for stairs, &c	605,732	June 14	1222	283	83	1605
Locke, Fred M., Victor, N. Y. Insulator	605,109	June 7	70	20	83	1365
Locke, Harvey W., assignor to W. F. Carlton, Rochester, N. Y. Photographic shutter	609,033	Aug. 16	1609	383 384	84	999
Locke, Howard G., Weymouth, assignor to O. A. Miller, Brockton, Mass. Boot or shoe treeing machine	612,114	Oct. 11	931	226	85	192
Locke, Martin J., Troy, N. Y. Folding-machine	611,070	Sept. 20	1657	379 380	84	1795
Locke, Orella, Canyon, Col. Kitchen-cabinet	613,770	Nov. 8	979	224	85	823
Locke, William, and A. M. Anderson, assignors of one-third to S. M. Sangestad, Bode, Iowa. Rotary engine	598,793	Feb. 8	1233	298	82	853
Lockerby, Walter H., Ithaca, N. Y. Counter-irritation instrument	599,714	Mar. 1	68	15	82	1229
Lockhart, William S., assignor to Automatic Gem and Gold Separator Syndicate, Limited, London, England. Hydraulic separator for treating mixed minerals	607,755	July 19	2236	472 473	84	469
Lockman, John. (See Witt, John F. C., assignor.)						
Lockstone, Edward S., Blanchester, Ohio. Roasting-pan	604,252	May 17	1880	421	83	1015
Lockwood, Benjamin F., Lyons, N. Y. Portable grave-vault	609,358	Aug. 16	2218	524 525	84	1117
Lockwood, Charles, assignor of one-half to H. C. and G. H. Crawford, Forest House, Pa. Ice-velocipede	597,468	Jan. 18	1760	407 408	82	376
Lockwood, Edward M., Oswego, N. Y. Machine for cutting match-splints	600,085	Mar. 1	836	192 193 194	82	1378
Lockwood, Henry S., South Norwalk, Conn. Key	600,618	Mar. 15	1817	417	82	1604
Lockwood, John S., <i>et al.</i> (See Gooding and Beauregard, assignors.)						
Lockwood, Richard W. (See Grenier, Peter S., assignor.)						
Lockwood, Virgil H. (See McMillin, Robert S., assignor.)						
Lodge, Addison D., Vandalia, Ohio. Whiffletree-hook	597,008	Jan. 11	966	229	82	204
Lodge, Edward, Lymanville, assignor of one-half to W. H. Hersey, Providence, R. I. Wool-combing machine	597,361	Jan. 11	1558	363 364	82	320
Lodge, Oliver J., Liverpool, England. Electric telegraphy	609,154	Aug. 16	1844	438 439	84	1041
Lodriguss, Ariard J., Belle Rose, La. Running-gear for railway-cars	601,896	Apr. 5	528	109	83	100
Loe, Frank M., <i>et al.</i> (See Kissell, Aaron, assignor.)						
Loeb, Rudolf, Camden, N. J. Embroidering-machine	608,781	Aug. 9	1087	250 251	84	887
Loeble, Gottlob E., and F. Katzenberger, New York, N. Y. Testing-valve	610,452	Sept. 6	579	128	84	1549
Loeffler, Hermann, Pittsburg, Pa. Emergency-brake for street-cars	606,065	June 21	1904	438	83	1749
Loeper, George J., and P. B. Hausdörfer, Indianapolis, Ind. Automatic high-speed governor	616,678	Dec. 27	2742	637	85	1998
Loery, Bernhard, New York, N. Y. Cooking utensil	597,217	Jan. 11	1321	308	82	272
Loew, Charles H., Cleveland, Ohio. Filter	605,110	June 7	71	20, 21	83	1366
Loewe, Adolf, New York, N. Y. Lid-support	608,692	Aug. 9	940	216	84	861



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Loewenbach, Hugo. (See Schilz, Frank, assignor.)						
Lofgren, Gustaf, Newark, Cal. Wave or current motor	604,211	May 17	1807	406	83	1001
Lofstedt, Julius A., Yonkers, N. Y. Book-support	602,164	Apr. 12	1008	221	83	203
Lofstedt, Julius A., Yonkers, N. Y. Photographic-printing frame	616,577	Dec. 27	2534	587	85	1958
Lofstin, J. B., <i>et al.</i> (See Mason, William R., assignor.)						
Logan, Edward W., West Monterey, Pa. Car-signal	598,308	Feb. 1	422	100	82	682
Logan, John R. (See Barron, Logan, and Sheridan.)						
Logan, M. H. (See Bodeman, Henry W., assignor.)						
Logan, M. W. (See Tracy, Andrew, assignor.)						
Logan, William H., assignor to Kirker-Bender Fire Escape Company, Louisville, Ky. Fire-escape	615,998	Dec. 13	1424	332	85	1708
Logan, William H., assignor to Kirker-Bender Fire Escape Company, Louisville, Ky. Fire-escape	615,999	Dec. 13	1425	333	85	1703
Lohman, Benjamin H., St. Louis, Mo. Surgical injector-clamp	611,038	Sept. 20	1606	368	84	1785
Lohmann, Conrad F. C., Northcote, Victoria. Rotary motor	606,563	June 28	2843	655	83	1953
Lohr, L. A. (See Harlow, William O., assignor.)						
Loiselle, Aimé. (See Loiselle, Herménégilde and A.)						
Loiselle, Herménégilde and A., Winnipeg, Canada. Car-coupling	608,056	July 26	2839	605	84	605
Lombard, Alvin O., Waterville, Me. Feed attachment for pulp-wood barkers	612,611	Oct. 18	1816	431 432	85	373
Lombas, Joseph A., assignor of one-half to P. R. Melançon, Lockport, La. Combined nut and bolt lock and washer	597,293	Jan. 11	1432	336	82	294
Lombas, Joseph A., Lockport, assignor of one-half to E. A. Boudreau, Cypre Mort. La. Centrifugal filter	601,973	Apr. 5	679	144	83	128
Loneragan, John J., and A. C. Calkins, Los Angeles, Cal. Assayer's furnace	608,883	Aug. 9	1304	304	84	927
Loneragan, Philip J., Colorado Springs, assignor to F. Hills, J. F. Burns, Victor, Colo. and M. P. Adams, San José, Cal. Ore reducing and separating mechanism	614,401	Nov. 15	2096	482 483	85	1058
Long, Albert, and R. Foster, Lawrence, Mass. Apparatus for drawing off in circle-combs	606,564	June 28	2845	655 656	83	1953
Long & Allstatter Company. (See Long, John M. and J. M. W., assignors.)						
Long, Amos E., and A. A. Jones, Philadelphia, Pa. Cap for bottles, jars, &c.	610,715	Sept. 13	1033	238	84	1658
"Long Arm" System Company. (See Cowles, William B., assignor.)						
Long, Arni T. (See Sigurdson, John, assignor.)						
Long, Charles H., Tipton, Iowa. Printing device for paper-roll holders	596,891	Jan. 4	749	177	82	146
Long, Charlie H., Louisville, Ky. Emergency fusible cut-out for electric circuits	613,286	Nov. 1	116	27	85	639
Long, David L., Columbus, Ohio. Sash-fastener	609,821	Aug. 30	3068	715	84	1312
Long, Edward N. (See Rickard and Long.)						
Long, Francis F., Tyler, Tex. Shoe-plate	614,616	Nov. 22	2488	568	85	1143
Long, George S., Hinckley Ill. Automatic windmill-regulator	601,152	Mar. 22	2701	621 622	82	1786
Long Island Rubber and Cycle Company. (See Leggo, William A., Jr., assignor.)						
Long, J. D. (See Bell, Isaac R., assignor.)						
Long, James N., Philadelphia, Pa. Elevated supplemental oven for stoves or ranges	613,521	Nov. 1	555	126	85	721
Long, John E., Chillicothe, Ohio. Spring for chairs, &c.	601,573	Mar. 29	3453	784	82	1960
Long, John M. and J. M. W., assignors to Long & Allstatter Company, Hamilton, Ohio. Spacing-punch	601,398	Mar. 29	3170	716	82	1902
Long, John M. W. (See Long, John M. and J. M. W.)						
Long, Joseph A. and L. H., Brooklyn, N. Y. Car-heater	606,066	June 21	1905	439	83	1749
Long, Joseph B., Chicago, Ill. Combined bracket and stand for lamps	609,822	Aug. 30	3069	716	84	1312
Long, Joseph B., Chicago, Ill. Jacketed can	613,771	Nov. 8	982	224	85	824
Long, Lionel C. (See Long, Sidney L., assignor.)						
Long, Lowman H. (See Long, Joseph A. and L. H.)						
Long, Reuben, assignor to B. W. Simmons, Mexia, Tex. Folding camp-bed	611,176	Sept. 20	1862	429	84	1835
Long, Sidney L., assignor of one-half to L. C. Long, Magnolia, Minn. Animal-trap	616,242	Dec. 20	1918	444	85	1818
Long, Theodore A., Harrisburg, Pa. Carpet and weather strip	610,864	Sept. 13	1299	299	84	1712
Long, Timothy, Cleveland, Ohio. Car-unloading apparatus	603,336	May 3	163	37, 38	83	633
Long, Walter Z., Springfield, Ohio. Pop-corn-fritter machine	616,125	Dec. 20	1670	390	85	1768
Long, William N., assignor of one-half to J. S. Parker, Salem, Oreg. Coupling	609,283	Aug. 16	2100	497	84	1092
Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Inflatable ball	601,520	Mar. 29	3378	765	82	1944
Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Rubber mitten	609,993	Aug. 30	3376	784	84	1372
Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Syringe-tube	611,454	Sept. 27	2416	554	84	1957
Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Rubber glove	612,741	Oct. 18	2034	483	85	413
Longfellow Bros. <i>et al.</i> (See Smith, William, assignor.)						
Longhi, Emilio. (See Quarelli, Peter, assignor.)						
Longley, George A., Groton, Mass. Mowing-machine	608,057	July 26	2840	605	84	605
Longshore-Potts, Anna M., assignor of one-half to G. E. Harrison, London, England. Pessary	606,565	June 28	2848	656	83	1954
Longstreth, Charles, Yeaddon, assignor to United States Metallic Packing Company, Philadelphia, Pa. Rod-packing for steam-engines	603,588	May 3	627	139 140	83	723
Longthorpe, Jeshurun. (See Woodcock, Longthorpe, and Dargue.)						
Longtin, Frank. (See Brunn and Longtin.)						
Lonning, Christ J., Paullina, Iowa. Shingle-nailing machine	610,943	Sept. 20	1432	329	84	1753
Lonzo, William, Fitchburg, Mass. Picker-check for looms	605,581	June 14	950	221	83	1556
Look, John C., San José, Cal. Air-brake coupling	598,347	Feb. 1	476	114	82	692
Look, John C., San José, Cal. Air-brake coupling	598,348	Feb. 1	478	114	82	692
Loomis, Boardman J., Los Angeles, Cal. Key	602,561	Apr. 19	1673	380	83	347
Loomis, De Witt, Detroit, Mich. Draft-rigging for railway-cars	608,522	Aug. 2	629	141	84	779
Loomis, De Witt, Detroit, Mich. Draft-rigging	613,522	Nov. 1	557	126	85	721
Loomis, Edward E., Elmira, N. Y., and T. J. Mooers, Blossburg, Pa. Track friction-brake	605,964	June 21	1715	393	83	1715
Looney, Charles. (See Wallach, Willy, assignor.)						
Looney, John H. (See Donnelly and Looney.)						
Looper, David D., <i>et al.</i> (See Osborne, William W., assignor.)						
Loos, George, Pittsburg, Pa. Curtain-pole adjuster	607,117	July 12	908	197	84	194
Loos, Heinrich F., Nuremberg, Germany. Locking-link for chains	609,890	Aug. 30	3179	744	84	1333
Loper, Alexander P., Stonington, Conn. Engine-controlling device	604,253	May 17	1880	421	83	1015
Loquet, Jean B., and J. B. Ketelair, Antwerp, Belgium. Steam-generator	605,495	June 14	806	186	83	1528
Lorain Steel Company. (See Eyre and Dishong, assignors.)						
Lorain Steel Company. (See Kleinschmidt, Henry F. A., assignor.)						
Lorain Steel Company. (See Smay, Orlando, assignor.)						
Lorance, Henry E. (See Entwistle, Star, Talley, and Lorance.)						
Lorang, Rudolph. (See Bostwick, Kraske, and Lorang.)						
Lorch, Ernest P., New York, N. Y. Polishing-machine	597,542	Jan. 18	1873	434	82	398



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Lord, Abraham S., assignor of one-half to G. H. Field, Lynn, Mass. Curtain-fixture	606,468	June 28	2669	615	83	1918
Lord, Almon, Brooklyn, N. Y., assignor to Consolidated Fastener Company, Portland, Me. Buckle	607,060	July 12	792	172	84	173
Lord, Charles F., assignor of one-half to E. S. Gray and F. E. Hersey, Mechanic Falls, Me. Gang-punch	613,840	Nov. 8	1098	250	85	845
Lord, David D., Colorado Springs, Colo. Ore-concentrator	612,742	Oct. 18	2035	483	85	413
Lord, George W., Excelsior Springs, Mo., assignor, by mesne assignments, to Watson Automatic Seat Post Company, Paterson, N. J. Seat-post for bicycles	607,181	July 12	1024	222	84	214
Lord, John D., assignor of one-half to P. Horn, New York, N. Y. Bicycle-bell	615,287	Dec. 6	121	32.33	85	1437
Lord, John S., Des Moines, Iowa. Bicycle attachment	608,262	Aug. 2	158	39	84	685
Lord, Peter, Worcester, Mass. Saw-file	603,909	May 10	1214	275	83	852
Lord, Robert W., Bath, Me. Work-holder for metal-working machines	603,025	Apr. 26	2487	564	83	516
Lord, Simeon, Philadelphia, Pa. Picture-hanger	613,841	Nov. 8	1100	250	85	846
Lord, Simeon, Philadelphia, assignor of one-half to E. Verlenden, Darby, Pa. Picture-hanger	603,146	Apr. 26	2701	613	83	558
Lord, William, New York, N. Y. Hat-guard	606,486	June 28	2696	621	83	1924
Lord, William B., <i>et al.</i> (See Scott, Charles B., assignor.)						
Lordly, Arthur R., St. John, Canada. Panel	603,147	Apr. 26	2701	613	83	559
Loree, Perry E., assignor of one-half to J. C. Ely, Dayton, Ohio. Combined rake and roller cutter	607,383	July 12	1404	299	84	288
Lorentz, Moses L., New York, N. Y. Key-fastener	614,115	Nov. 15	1565	357	85	959
Lorenz, William A., Hartford, Conn., and C. E. De Lue, Boston, Mass., assignors to American Automatic Banjo Company, of New Jersey. Picker device for stringed musical instruments	606,222	June 28	2213	508 509	83	1827
Loretz, Arthur J. L., Brooklyn, N. Y. Hydraulic-motor-regulating device	605,169	June 7	198	50	83	1388
Lori, Ferdinando. (See Pignotti, Lori, Regnoli, Besso, and Pantaleoni.)						
Lorillard, Pierre, Jr. (See Tremaine and Lorillard.)						
Lorillard, Pierre, Jr., Tuxedo Park, and E. G. Tremaine, New York, N. Y. Pressing-machine	615,397	Dec. 6	345	82.83	85	1479
Loring, George W. (See Bennett and Loring.)						
Loring, George W. (See Schwedler, Gustav H., assignor.)						
Loring, Silas H., Holden, Mass. Dough-kneader	613,287	Nov. 1	117	27	85	639
Loring, Walter B., Worcester, Mass. Automatic temperature-regulating apparatus	603,696	May 10	824	182 183	83	778
Lortz, George M. (See Antisdal and Lortz.)						
Löser, Franz. (See Diehl, Ruppert, and Löser.)						
Losee, Ezra A., Lake City, Iowa. Holder	614,116	Nov. 15	1566	358	85	959
Losee, Ezra A., Lake City, Iowa. Holder	614,117	Nov. 15	1567	358	85	959
Losier, John E. (See Hock and Losier.)						
Losure, Lisander, Van Buren, Ind. Apparatus for separating natural gas from oil, &c.	609,284	Aug. 16	2101	497	84	1093
Lotstrom, Alexander E., Spokane, Wash. Stovepipe-coupling	601,444	Mar. 29	3253	735	82	1918
Lotstrom, Alexander E., Spokane, Wash. Hitching and gagging attachment	614,015	Nov. 8	1383	317	85	902
Lott, Edward C., assignor to I. L. Ellwood Manufacturing Company, De Kalb, Ill. Wire-fence stretcher	598,526	Feb. 8	789	189	82	769
Lott, William E., Chicago, Ill. Clock-winding indicator	614,402	Nov. 15	2098	483	85	1059
Lott, William E., Mineola, Tex. Latch	615,076	Nov. 29	3367	772	85	1328
Lotz, Alfred F. C., assignor of one-half to G. Kurtz, Pittsburg, Pa. Display-machine	603,109	Apr. 26	2633	598	83	544
Lotz, Christian E., Wheeling, W. Va. Incandescent gas-burner	615,288	Dec. 6	123	33	85	1437
Lotz, Thomas A., Fort Recovery, Ohio. Mud-guard and robe-holder	598,794	Feb. 8	1235	299	82	854
Lotzgesell, Henry, Philadelphia, Pa. Wave-power	597,118	Jan. 11	1163	273	82	242
Loucks, Edwin W. (See Bates, Peter S., assignor.)						
Louden, Bartholomew G., and W. R. Shute, assignors of one-third to F. Johnson, Vine-land, N. J. Hand-pump for inflating bicycle-tires	616,195	Dec. 20	1819	420	85	1798
Louden, Elizabeth, Omaha, Nebr. Egg-poacher	601,755	Apr. 5	255	50	83	49
Louden, Thomas C., Riverside, Conn. Provision-rack	600,879	Mar. 22	2264	516	82	1703
Louden, William, Fairfield, Iowa. Trip-coupling	610,865	Sept. 13	1300	299	84	1712
Loudermilch, Henry C., assignor of one-half to C. G. Lentz, Enders, Pa. Fly-screen	615,289	Dec. 6	125	33	85	1437
Louis, Caroline, Pine City, Minn. Washboiler	611,177	Sept. 20	1863	429	84	1835
Louis, Fedor, New York, N. Y. Hoisting or lifting apparatus	611,263	Sept. 27	2039	470 471 472	84	1888
Lounsberry, Lawrence C. (See Campbell and Lounsberry.)						
Lounsbury, W. W., <i>et al.</i> (See Mason, James H., assignor.)						
Loutzenhiser, Charles H., assignor to W. Griscom and T. McFeely, Philadelphia, Pa. Oscillating sieve or bolting-machine	602,341	Apr. 12	1299	288 289	83	262
Lovatt, J. Walter. (See Miller, Thomas M., assignor.)						
Lovdal, Thomas B., Sacramento, Cal. Shore-protector	601,663	Apr. 5	70	14	83	14
Love, James H., Meadville, Pa. Pencil-sharpener	598,427	Feb. 1	624	153	82	721
Love, John. (See McFaddin and Lucas, assignors.)						
Love, John A., Searcy, assignor of one-half to S. L. Joseph, Paragould, Ark. Display device	609,823	Aug. 30	3070	716	84	1312
Love, Robert H., Allen, Tex. Riveting-machine	600,733	Mar. 15	2020	460	82	1643
Love, William, Bryn Mawr, Pa. Pipe-coupling	616,578	Dec. 27	2535	587	85	1958
Love, William G. (See Stubblefield, Nathan B., assignor.)						
Lovejoy, Charles C., New York, N. Y. Movable caisson	609,686	Aug. 23	2839	664	84	1253
Lovejoy Company. (See Ferguson, James H., assignor.)						
Lovejoy, Elwyn W. (See Maxfield and Lovejoy.)						
Lovejoy, George L. (See Close, John W., assignor.)						
Lovekin, Luther D., assignor to Lovekin Saddle Company, Philadelphia, Pa. Bicycle-saddle	615,077	Nov. 29	3368	772	85	1328
Lovekin Saddle Company. (See Lovekin, Luther D., assignor.)						
Lovelace, Alfred N., Knoxville, Tenn. Safety cut-out for electric lamps	598,733	Feb. 8	1145	275	82	837
Lovell, Charles W., Brooklyn, assignor, by mesne assignments, to F. White, New York, N. Y. Mailing-box	597,726	Jan. 25	2185	510	82	475
Loverin, Henry A., Minneapolis, Minn. Folding box	597,065	Jan. 11	1067	250	82	224
Low, Abbot A. (See Johnson and Low.)						
Low, Abbot A., Brooklyn, N. Y. Punch	600,587	Mar. 15	1775	405	82	1596
Low, Isaac, East Fairfield, Ohio. Car-coupling	602,342	Apr. 12	1301	289	83	262
Low, John W., Chicago, Ill. Paper-box machine	603,471	May 3	407	91.92	83	679
Lowe, Arthur A., Abingdon, and P. E. Lowe, Galesburg, Ill. Wrench	599,396	Feb. 22	2301	543	82	1096
Lowe, Ernest A., North Plainfield, N. J., assignor to himself, and J. Jones & Son, New York, N. Y. Fusible cut-out	598,106	Feb. 1	64	15	82	615
Lowe, Frank, Oklahoma, Okla. Ter. Automatic can	606,931	July 5	520	114	84	103
Lowe, Harry F. (See Haywood and Totten, assignors.)						
Lowe, Melvin W., assignor of one-half to J. W. Daniel and C. S. Ewing, Cynthiana, Ky. Nut-wrench	599,715	Mar. 1	69	16	82	1229



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Lowe, Milton H., Jeffersonville, assignor of one-half to T. Russell, West Baden, Ind. Surgical needle	604,119	May 17	1640	368	83	968
Lowe, Moses T., Mount Horeb, Wis. Tank-heater	596,892	Jan. 4	750	177	82	147
Lowe, Neri, Sr., Lebanon, Tenn. Automatic wagon-brake	616,713	Dec. 27	2807	650	85	2011
Lowe, Purley E. (See Lowe, Arthur A. and P. E.)						
Lowe, Robert E., Brooklyn, N. Y. Garment	596,893	Jan. 4	752	177	82	147
Lowe, William, Sydney, New South Wales. Valve-gear	602,343	Apr. 12	1302	289	83	262
Lowenbart, Arthur S. (See Kastle, Ravitch, and Lowenbart.)						
Lowenstein, James. (See McCauley, John H., assignor.)						
Lowentraut, Peter, Newark, N. J. Skate	597,992	Jan. 25	2652	619	82	564
Löwi, Edmund, Prague, Austria-Hungary. Obtaining cattle-food	609,824	Aug. 30	3072	716	84	1312
Lowman, John W., and N. M. Gage, Warrington, Fla. Paint	614,403	Nov. 15	2099		85	1059
Lownes, Lewis M., Norristown, Pa. Bedclothes-clamp	597,805	Jan. 25	2337	545	82	504
Lowry, J. C. (See Denison, Hugh W., assignor.)						
Lowry, John W., Sabougla, Miss. Bed-slat	616,000	Dec. 13	1426	333	85	1703
Lozier, H. A. (See Jamieson, Robert W., assignor.)						
Lubbers, John H., New Kensington, Pa. Glass-annealing leer	602,031	Apr. 5	768	165 166	83	145
Lubbock, William L., assignor of one-half to R. H. and F. T. Connerly, Austin, Tex. Fishing-float	615,078	Nov. 29	3369	772	85	1328
Lubinski, Zygmunt, and K. Krajewski, Warsaw, Russia. Centrifugal machine	604,832	May 31	2934	671	83	1253
Lucas, Anthyme, Edmundston, Canada. Rail-spike lock-tie and gage-protector	612,974	Oct. 25	2462	588	85	517
Lucas, David F., New York, N. Y. Paint	615,079	Nov. 29	3371		85	1328
Lucas, Frederick M., Rathmel, Pa. Farm-gate	606,724	July 5	160	35	84	33
Lucas, George G. (See Ettinger, Samuel F., assignor.)						
Lucas, John M., Lincoln, Nebr. Pneumatic tire	598,613	Feb. 8	930	223	82	798
Lucas, Josef. (See Kierakowicz and Lucas.)						
Lucas, Josiah P. (See McFaddin and Lucas.)						
Lucas, Mary R., Omaha, Nebr. Skirt-lifter	603,567	May 3	592	132	83	716
Lucas, Mattie C., Louisville, Ky. Crib attachment for beds	608,523	Aug. 2	630	142	84	780
Lucas, Paul, Friedenau-Berlin, Germany, assignor to Incandescent Petroleum Lamp Company, of West Virginia. Lamp-burner	597,682	Jan. 18	2109	493 494	82	443
Lucchesi, Richard A., San Francisco, Cal. Dilator for fingers of the hand	602,191	Apr. 12	1055	231	83	212
Luce, Charles J., Niantic, Conn. Cotton-collecting apparatus	603,697	May 10	831	184	83	778
Luce, Clarence O., Plainfield, Wis. Peanut-vending case	604,994	May 31	3201	737	83	1305
Luce, Don C., assignor to O. A. Miller, Brockton, Mass. Means for locking or unlocking hinged lasts	608,782	Aug. 9	1089	251	84	887
Luce, Thomas C., Richmond, Mass., assignor to himself, J. H. Cox, New Lebanon, and T. W. Harris, New York, N. Y. Rotary engine	604,254	May 17	1882	422	83	1015
Lucier, Theophiles, Detroit, Mich. Bow-facing oar	611,497	Sept. 27	2496	576	84	1972
Luckner, Nikolaus. (See Luckner, Reinhold and N.)						
Luckner, Reinhold and N., New York, N. Y. Clothes-line hanger	608,205	Aug. 2	69	19	84	668
Ludington, Frederick W., assignor to L. C. White Company, Waterbury, Conn. Machine for assembling cloth-covered buttons	598,711	Feb. 8	1110	266 267 268	82	830
Ludlow, Washington I., Cleveland, Ohio. Door-catch	600,155	Mar. 8	1021	230	82	1434
Ludlow, William, Buffalo, N. Y. Gas-burner	607,756	July 19	2237	473	84	469
Ludowici Roofing Tile Company. (See Skeele, Henry B., assignor.)						
Ludwig, Gustav, Belleville, Ill. Vehicle	605,887	June 21	1558	358	83	1687
Ludwig, Henry E., Erie, Pa. Valve mechanism	612,950	Oct. 25	2424	577	85	508
Ludwig, Henry E., Erie, Pa. Valve mechanism	612,951	Oct. 25	2426	578	85	509
Ludwig, John H., New York, N. Y. Pianoforte	608,693	Aug. 9	941	217	84	861
Lufbery, Charles E., Chauny, France. Motor-vehicle	601,731	Apr. 5	209	41	83	41
Lufkin, Chauncey F., Lima, Ohio. Stuffing-box	599,852	Mar. 1	332	75	82	1276
Lufsky, Charles, assignor of one-half to G. H. Boeckenkamp, St. Louis, Mo. Game-table	600,086	Mar. 1	844	194	82	1379
Lugrin, Horatio N. H., Worcester, Mass. Fog-dispelling apparatus for ships	598,636	Feb. 8	978	236	82	806
Luitweiler, Walter M. (See Addison, Robert, assignor.)						
Luke, Abraham, Elkhart, Ind. Belt placer and tightener	616,792	Dec. 27	2942	685	85	2039
Luke, Charles, Milford, assignor to H. G. Thompson & Son, New Haven, Conn. Prepayment attachment for meters	604,255	May 17	1886	422	83	1016
Luke, Henry H., Fredonia, N. Y. Bowling-alley pin	608,294	Aug. 2	218	51	84	698
Lukens, Harry D., Spring City, Pa. Scaffold-support	606,763	July 5	217	51	84	49
Lukens, Richard L., and G. H. Zschech, Chicago, Ill. Flue-scraper	604,058	May 17	1525	343	83	946
Lukens, William V. (See Johnson and Lukens.)						
Lumb, George H., et al. (See Wilcomb, Frank, assignor.)						
Lumley, William. (See Drummond, Seigle, assignor.)						
Lumpkin, Samuel, Atlanta, Ga. Transportation-ticket	601,209	Mar. 22	2808	642	82	1806
Lund, Adolph, Chicago, Ill. Floor and ceiling construction	611,366	Sept. 27	2245	518 519	84	1926
Lund, Charles F. (See Orr, William W., assignor.)						
Lund, Rudolph, Cincinnati, Ohio. Folding chair and rocker	613,582	Nov. 1	649	150	85	739
Lundborg, John A. W., San Francisco, Cal. Bracket attachment for dental chairs	613,842	Nov. 8	1101	251	85	846
Lunde, Ole, Elgin, Ill. Ball-bearing	602,705	Apr. 19	1937	440	83	397
Lundell, Robert, New York, N. Y. Vapor or gas turbine	613,694	Nov. 8	825	189	85	794
Lundell, Robert, assignor of two-thirds to Interior Conduit and Insulation Company, New York, N. Y. Electrical circuit-controller	608,134	July 26	2955	634	84	629
Lundell, Robert, assignor of two-thirds to Interior Conduit and Insulation Company, New York, N. Y. Commutator-brush holder for dynamo-electric machines	608,135	July 26	2957	635	84	629
Lundell, Robert, and G. T. Rennerfelt, New York, N. Y. Hoisting mechanism for elevators or lifts	611,693	Oct. 4	179	43	85	38
Lundgren, Emil, Zilenoph, Pa. Vessel-cleaner	609,285	Aug. 16	2102	497 498	84	1093
Lundin, Emil O. (See Gilbert and Lundin.)						
Lundin, Johannes M. J. (See Schager and Lundin.)						
Lundquist, Frank A., Chicago, Ill., assignor of two-thirds to J. Anderson, Salina, and G. A. Anderson, Lindsborg, Kans. Telephone-exchange	606,764	July 5	248	52	84	50
Lundquist, Frank A., J. and C. J. Erickson, Lindsborg, Kans. Automatic telephone-exchange	616,714	Dec. 27	2809	651 652	85	2011
Lundquist, Nicolaus A., Kenosha, assignor of one-half to H. J. Hastings, Kenosha county, Wis. Machine for removing hair from hides	598,204	Feb. 1	238	53	82	647
Lundquist, Sophia V., Upsala, Fla. Music-holder for violins	603,568	May 3	594	132	83	716
Lundstrom, Albert, Truro, Canada. Tailor's stove	614,118	Nov. 15	1567	358	85	959
Lundy, Richard W., South Bend, Ind. Machine for straightening and cooling metal bars	611,694	Oct. 4	180	43	85	38
Lundy, Richard W., South Bend, Ind. Straightening-machine	611,695	Oct. 4	183	43, 44	85	39
Lundy, Richard W., South Bend, Ind. Means for straightening and cooling bars	611,696	Oct. 4	187	44	85	39
Lundy, Richard W., South Bend, Ind. Drawing-board	611,697	Oct. 4	190	45	85	40



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Lunger, Caleb R. (See Herrick and Lunger.)						
Lungren, Charles M., Bayonne, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Lamp	599,528	Feb. 22	2551	599	82	1144
Lunken, Edmund H., Denver, Colo. Chewing-gum box	599,945	Mar. 1	506	114	82	1309
Lunken, Edmund H., Denver, Colo., assignor to Lunkenheimer Company, Cincinnati, Ohio. Valve	607,252	July 12	1166	249	84	240
Lunkenheimer Company. (See Lunken, Edmund H., assignor.)						
Lupfer, Edgar N. (See Hiser and Lupfer.)						
Lurye, Henry I., New York, N. Y. Elevator	615,080	Nov. 29	3372	773	85	1328
Lurye, Henry I., assignor of one-fourth to N. H. Lewis, New York, N. Y. Combined leak and fire alarm	613,636	Nov. 1	740	172	85	758
Luse, Daniel F., Centre Hall, Pa. Hydrant	613,695	Nov. 8	827	189 190	85	794
Luse, J. L., et al. (See Patton, Joseph, assignor.)						
Luse, Riley B., C. E. Donlin, and P. H. Stewart, Hopkins, Mo. Cloth-measure	615,290	Dec. 6	125	33, 34	85	1437
Luther, Oscar, Munich, Germany. Variable gear for bicycles	601,574	Mar. 29	3454	785	82	1960
Lutterberg, Friedrich, Mittweida, Germany. Drawing-pen	602,165	Apr. 12	1009	221	83	203
Lutwyche, Edgar J., Chicago, Ill. Ornamenting glass	599,716	Mar. 1	69	16	82	1229
Lutz, Anton. (See Lare and Young, assignors.)						
Lutz, Herbert, Hamilton, Canada. Electrical wireman's combined gage and calculator.	611,971	Oct. 4	651	158	85	127
Lutz, Theodor. (See Burger and Lutz.)						
Lutz, William E., Philadelphia, Pa. Non-refillable bottle	615,081	Nov. 29	3374	773	85	1329
Luxton, William G., assignor to United Alkali Company, Limited, Liverpool, England. Diaphragm for electrolytic purposes	609,745	Aug. 23	2924		84	1269
Luye, Dave, Cleveland, Miss. Device for setting animal-traps	606,566	June 28	2849	657	83	1954
Lwoff, Paul, St. Petersburg, Russia. Vehicle-spring	609,446	Aug. 23	2382	561	84	1167
Lyall, John, Glasgow, Scotland. Steam-generator	616,715	Dec. 27	2822	652 653	85	2015
Lybeck, Nils A., San Francisco, Cal. Non-refillable bottle	616,126	Dec. 20	1673	390	85	1768
Lydon, Thomas E., et al. (See Reed, James, assignor.)						
Lyle, Robert W., Woodbridge, N. J. Fireproofing	614,328	Nov. 15	1964	453	85	1033
Lyle, Robert W., Perth Amboy, N. J. Fireproofing	614,329	Nov. 15	1965	454	85	1034
Lyman, James O., Waterbury, Conn. Electric program-clock	603,450	May 3	356	80, 81	83	668
Lynch, Andrew J., et al. (See Bennum, George W., assignor.)						
Lynch, Edward W. (See Veon, Andrew E., assignor.)						
Lynch, Frank T., Baltimore, Md. Dumping-wagon	601,476	Mar. 29	3297	746	82	1927
Lynch, John E., Carlton, Tex. Back-band hook	612,251	Oct. 11	1178	283	85	238
Lynch, John W., Philadelphia, Pa. Advertising device	615,358	Dec. 6	253	59	85	1463
Lynch, Matthew W., Madison, Wis. Lock-buckle	613,884	Nov. 8	1181	270	85	862
Lynch, Michael A., and W. I. Hough, assignors to J. J. Sheehy, A. A. Thomas, and E. J. Turner, Washington, D. C. Breech mechanism for ordnance	604,665	May 24	2637	604 605 606	83	1177
Lynch, Richard J., Danbury, Conn. Hat-forming machine	612,425	Oct. 18	1471	356	85	307
Lynch, William C., Salem, Va. Scissors-sharpener	616,478	Dec. 27	2358	548	85	1927
Lynch, William P., Canton, N. Y. Ironing-machine	597,322	Jan. 11	1486	347 348	82	306
Lynde, Frederick C., Manchester, England. Lavatory-basin, bath, or the like	615,082	Nov. 29	3375	773 774	85	1329
Lynds, George H., Guthrie, Okla. Ter. Cistern-cleaner	612,612	Oct. 18	1818	432	85	373
Lyne, Lewis F., Jersey City, N. J. Steam-boiler furnace	615,291	Dec. 6	127	34	85	1437
Lynn, David, Athens, Pa. Knockdown furniture	599,107	Feb. 15	1770	420 421	82	973
Lynn, Elmore P., Cincinnati, Ohio. Feed-water regulator and low-water alarm	598,712	Feb. 8	1113	268	82	830
Lynn, Elmore P., Cincinnati, Ohio. Steam-generator	615,489	Dec. 6	505	117	85	1509
Lynn, John R., Philadelphia, Pa. Puzzle or toy lock	609,447	Aug. 23	2383	561	84	1167
Lynn, Michael J., assignor of one-half to T. Howard, Ashland, Ky., and W. S. Harrison. Filter	598,468	Feb. 1	681	166	82	731
Lyon, Baxter, assignor to himself and C. R. Bromley, Providence, R. I. Computing scale or balance	600,837	Mar. 15	2186	498	82	1674
Lyon, Gustave F., Paris, France. Harp	608,058	July 26	2841	606	84	606
Lyon, Gustave F., Paris, France. Chromatic timbal	608,884	Aug. 9	1305	304	84	927
Lyon, Gustave F., Paris, France. Attachment-peg and appliance for tuning stringed instruments	614,735	Nov. 22	2706	616	85	1185
Lyon & Healy. (See Bennett, Robert J., assignor.)						
Lyon & Healy. (See Neumann, Julius J., assignor.)						
Lyon, Henry, assignor of one-half to D. Stewart & Company, Limited, Glasgow, Scotland. Resistance and contact apparatus for electric currents	610,406	Sept. 6	508	111	84	1536
Lyon, James W., Brooklyn, N. Y. Towel-rack	605,565	June 14	920	215 216	83	1550
Lyon, James W., New York, N. Y. Diamond-polishing tool	615,083	Nov. 29	3376	774	85	1329
Lyon, Julian P., Detroit, Mich. Jar and temporary closure therefor	603,910	May 10	1215	275	83	852
Lyon, Julian P., Detroit, Mich. Jar	603,911	May 10	1217	276	83	853
Lyon, Julian P., Detroit, Mich. Jar-closure	615,084	Nov. 29	3378	774	85	1330
Lyon, Leonidas N., Jr., Waco, Tex. Cushion-tire retainer for vehicle-wheels	613,583	Nov. 1	650	150	85	739
Lyon, Lucy B. J., Bridgeport, Conn. Baby-harness	602,861	Apr. 26	2205	499	83	464
Lyon, Monty A., Wisdom, Mont. Sack-holder	611,498	Sept. 27	2497	576	84	1973
Lyon, Walter. (See Diehl, Walter R., assignor.)						
Lyon, William B., Hartsel, Colo., assignor of one-half to H. Alden. Car-coupling	613,696	Nov. 8	832	190	85	796
Lyons, Francis J., St. Louis, Mo. Retaining device for storm-slippers, &c	607,061	July 12	793	172	84	173
Lyons, Fred N., Mendocino City, Cal. Life-boat	610,547	Sept. 13	757	172	84	1600
Lyons, Joseph H. (See Barrett, Lyons, and Tumney.)						
Lyons, Mary, New York, N. Y. Corset	615,029	Nov. 29	3267	750	85	1310
Lyons, Robert L., Waltham, assignor to Union Button Sewing Machine Company, Boston, Mass. Knitting-machine needle	607,253	July 12	1167	249	84	241
Lyons, Walter R., Topeka, Kans. Means for operating steam-whistles	615,398	Dec. 6	347	83	85	1480
Lytle, John A., Glenville, W. Va. Combination agricultural implement	615,726	Dec. 13	932	216	85	1608
Lytle, John H. (See Laycock and Lytle.)						
Maas, Maurice, New York, N. Y. Electric battery	615,292	Dec. 6	130	34	85	1438
Mabbett, H. Earl. (See Ainley, Albert, assignor.)						
Mabbett, Truman, Vineland, N. J. Apparatus for cutting and slicing vegetables, fruit, &c	597,009	Jan. 11	968	229	82	204
Mabury, Park C., San José, Cal. Grass-catcher for lawn-mowers	612,856	Oct. 25	2274	542	85	478
MacArthur, John S., Pollokshields, and J. Yates, assignors to Gold and Silver Extraction Company of America, Limited, Glasgow, Scotland. Apparatus for extracting gold and silver from ores, &c	600,266	Mar. 8	1210	274 275	82	1470
MacCall, Charles R., Howland, assignor of one-half to N. M. Jones, Lincoln, Me. Thill-tug	606,870	July 5	439	94	84	86



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MacCoy, James S. (See Giroud, Peter G., assignor.)						
MacDonald, Isaiah, San Francisco, Cal. Means for closing shot-holes in war-ships	611,593	Sept. 27	2683	620	84	2007
MacDonald, James H., Athol, Mass. Pressure-actuated governor for pumps	601,664	Apr. 5	71	14	83	15
MacDonald, John M., London, England. Decorticating apparatus	597,993	Jan. 25	2653	620	82	564
MacDonald, John W., Pittsburg, Pa. Washing-machine	612,907	Oct. 25	2358	562	85	494
MacKendrick, William G., Toronto, Canada. Apparatus for repairing asphalt pavements	616,001	Dec. 13	1426	333	85	1703
MacKenzie, George W., Beaver, Pa. Voting-machine	613,164	Oct. 25	2758	649 650	85	575
MacKnight, James A. (See Doty, MacKnight, and Grauten.)						
MacLagan, James. (See Howell, Carrier, and MacLagan.)						
MacLaughlin Manufacturing Company. (See MacLaughlin, William G., assignor.)						
MacLaughlin, William G., Kansas City, Mo., assignor to MacLaughlin Manufacturing Company, Omaha, Nebr. Automatic air-brake	612,778	Oct. 18	2107	500 501	85	427
MacNaughton, James. (See Rossi, Auguste J., assignor.)						
MacPherson, John G., Buffalo, N. Y. Coin-controlled machine	611,071	Sept. 20	1660	380 381	84	1796
MacSpadden, John C., St. Joseph, Mo. Inflation-tube	603,510	May 3	499	109	83	697
MacTaggart, Charles, assignor of one-half to T. MacTaggart, Philadelphia, Pa. Pipe-hanger	599,424	Feb. 22	2357	556	82	1108
MacTaggart, Thomas. (See MacTaggart, Charles, assignor.)						
MacWilliams, Charles W., Preston, Canada. Sugar-cane header	601,153	Mar. 22	2703	622	82	1787
Macaaffree, David L. (See Lawton and Macaaffree.)						
Macbrair, Charles C., assignor to C. C. Macbrair & Co., Cincinnati, Ohio. Apparatus for coating paper or other fabrics	606,869	July 5	436	93	84	86
Macbrair & Co., C. C. (See Macbrair, Charles C., assignor.)						
Maccoun, Andrew E., and J. Noey, Braddock, Pa. Automatic electric feed-water regulator	603,650	May 10	750	166	83	763
Macdonald, Albert E., San Francisco, Cal. Dental engine	612,590	Oct. 18	1756	416	85	360
Macdonald, Donald N. (See Karsner, Adam E., assignor.)						
Macdonald, Patrick A., Winnipeg, Canada. Voting-machine	609,825	Aug. 30	3074	717	84	1312
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, Washington, D. C. Manufacture of graphophone-tablets	606,725	July 5	161	36	84	33
Macdonald, William A. (See Young and Macdonald.)						
Macduffee, Chester E., Narragansett, R. I. Cake-turner	614,016	Nov. 8	1384	317	85	903
Mace, Albert F., Stockton, and L. R. Keough, Oakland, Cal. Acetylene-gas generator	614,664	Nov. 22	2580	586 587	85	1159
Macey, Fred J., Ontonagon, Mich. Rotary engine	604,995	May 31	3202	737	83	1305
Macfarlane, M. B., et al. (See Hogan, Daniel, assignor.)						
Machepy, Hubert. (See Wincqz and Machepy.)						
Mack, Andrew C., Portland, Oreg. Razor-sharpener	609,516	Aug. 23	2514	588	84	1190
Mack, Emma C. (See Ohnstrand, Enoch, assignor.)						
Mack, George S. (See Heine and Mack.)						
Mack, Hanford, Homer, Mich. Wire-tightener	612,115	Oct. 11	935	226	85	193
Mack, John G. D., Madison, Wis., assignor to Eugene Dietzgen Company, Chicago, Ill. Slide-rule	606,388	June 28	2525	586	83	1888
Mack, Patrick H., Bradford, Pa. Temper-screw for oil or Artesian well drilling tools	610,239	Sept. 6	183	41	84	1477
Mack, William A., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Bobbin-case retainer for sewing-machines	608,552	Aug. 2	679	154	84	790
Mack, William A., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machine	608,553	Aug. 2	681	154 155	84	790
Mack, William H., Cleveland, Ohio. Trimming attachment for ore vessels	613,906	Nov. 8	1209	276	85	867
Mackay, Angus G., and M. J. Broder, New York, N. Y.; said Broder assignor to said Mackay. Stapling-machine	613,210	Oct. 25	2861	674	85	595
Mackay, Edith M. M., London, assignor to W. L. B. Hinde, Birmingham, England. Hair-fastener	607,604	July 19	1982	412	84	421
Macke, Fred. (See Walton and Macke.)						
Mäcke, Louis, Catspring, Tex. Cutter	605,733	June 14	1223	283	83	1605
Mackenzie, William S., Normanton, and W. Crosland, Milnthorpe, England. Furnace for steam-boilers	608,059	July 26	2843	606	84	606
Mackey, Charles W., Moravia, N. Y. Cork-protector	601,776	Apr. 5	294	58		56
Mackey, Frank M., Elmira, N. Y. Motor	602,086	Apr. 12	856	186 187	83	174
Mackey, Franklin L., New Castle, Pa. Clock-controlled switch	602,706	Apr. 19	1988	440	83	397
Mackey, John C., assignor to W. H. Albach, New York, N. Y. Lamp	596,522	Jan. 4	109	25	82	23
Mackie, Peter H., assignor of one-third to W. M. Glass, Pasadena, Cal. Dredging apparatus	612,777	Oct. 18	2105	499 500	85	427
Mackill, Robert, Glasgow, Scotland. Composition for sheep-dipping	608,466	Aug. 2	529		84	761
Mackintosh, James H. (See McChesney, William W., assignor.)						
Mackley, George T., London, England. Supporting attachment for bicycles	612,857	Oct. 25	2275	542	85	478
Maclay, James D., deceased, Louisville, Ky.; M. H. Maclay, administratrix. Amalgamator	614,965	Nov. 29	3147	723	85	1288
Maclay, Minnie H., administratrix. (See Maclay, James D.)						
Maclean, Harry A. D., London, England. Cart for military or other purposes	599,969	Mar. 1	541	124	82	1315
Macomber, Francis S., trustee. (See Selden, Arthur R., assignor.)						
Macomber, Herbert H., Kendallville, Ind. Tower	603,011	Apr. 26	2464	560	83	512
Macomber, Louis E., assignor of one-half to E. H. Ellis, Ashland, Wis. Thill-coupling	611,135	Sept. 20	1794	413	84	1822
Macowsky, Isaac, New York, N. Y. Car-fender	603,912	May 10	1218	276	83	853
Macphail, James, Blue Island, Ill. Mower	604,901	May 31	3054	701 702	83	1276
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Butt-adjuster for grain-binders	596,603	Jan. 4	258	57	82	51
Macphail, James, West Pullman, assignor to Plano Manufacturing Company, Chicago, Ill. Wheel	609,203	Aug. 16	1929	458	84	1057
Macphail, James, West Pullman, assignor to Plano Manufacturing Company, Chicago, Ill. Oil-cup	609,204	Aug. 16	1930	459	84	1057
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Reaping-machine	609,891	Aug. 30	3180	745	84	1333
Macwilliam, Hugh G., St. Paul, Minn. Suspenders	609,286	Aug. 16	2104	498	84	1093
Macy, Arthur H. (See Seymour and Macy.)						
Macy, Josiah H. (See Amend, Otto P., assignor.)						
Madden, Albert F., Newark, N. J., assignor to Marsden Company, Philadelphia, Pa. Machine for reducing pithy plants	605,293	June 7	452	100 101	83	1438
Madden, Augustine J., Melbourne, Victoria. Chainless gear for velocipedes	607,757	July 19	2239	473	84	470
Madden, John. (See Mulcahy, Michael C., assignor.)						
Madden, William M., et al. (See Horton, Peter D., assignor.)						
Maddin, William A., Muscogee, Ind. Ter. Filter	609,942	Aug. 30	3266	763	84	1349



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Maddin, William A., Muscogee, Ind. Ter. Automatic cut-off for water-spouts	612,252	Oct. 11	1179	283	85	238
Maddock, Thomas, <i>et al.</i> (See Simons, John F., assignor.)						
Maddocks, Peter, Tracy, Cal. Sidehill gang-plow	613,454	Nov. 1	436	99	85	699
Maddox, John A., assignor to C. C. Bloom, West Union, Ohio. Churn	604,059	May 17	1527	343	83	946
Maddux, James H., San Luis Obispo, Cal. Pick	599,717	Mar. 1	70	16	82	1230
Madison, George A., Baltimore, Md. Faucet	598,795	Feb. 8	1236	299	82	854
Madlehner, Jacob, and F. Hamilton; said Hamilton assignor to M. Hamilton, Erie, Pa. Explosive-gas engine	616,059	Dec. 13	1530	357 358	85	1724
Maebert, Alexander, Jersey City, N. J. Detachable heel for boots or shoes	606,016	June 21	1811	418	83	1732
Maertens, Emile, Providence, R. I. Process of and apparatus for extracting fat	615,030	Nov. 29	3268	750	85	1310
Maffett, Mary. (See Wall, Frederic W., assignor.)						
Magann, George P., <i>et al.</i> (See Taylor, Charles, assignor.)						
Magee, Alexander, assignor to St. Louis Car Wheel Company, St. Louis, Mo. Machine for grinding car-wheels	601,269	Mar. 29	2950	667 668	82	1861
Magee, Lucius Q. C., Pittsburg, Pa. Steamboat paddle-wheel	604,256	May 17	1887	423	83	1016
Magee, Zachariah T., Franklinton, La. Chair	601,575	Mar. 29	3455	785	82	1960
Mager, John B., <i>et al.</i> (See White, Warren E., assignor.)						
Maggio, Vincent, Middletown, N. Y. Musical instrument	612,005	Oct. 4	719	173	85	140
Magini, Giuseppe di P., S. Folli, Florence, and E. Antico, Cagliari, Italy. Target	606,807	July 5	327	68, 69	84	66
Maginot, Albert, Vesoul, France. Helico-centrifugal pump	605,888	June 21	1559	358 359	83	1687
Magney, Joseph P., assignor to C. F. Quincy, Chicago, Ill. Door closer and check	598,379	Feb. 1	527	128	82	702
Magnusen, James, Chicago, Ill. Sidewalk-light construction	600,880	Mar. 22	2265	517	82	1703
Magnuson, Oscar S. (See Westin and Magnuson.)						
Magoris, Anthony E., Binghamton, N. Y. Vaginal syringe	597,323	Jan. 11	1489	348	82	307
Maguire, Robert. (See Bell and Maguire.)						
Maguire, Thomas R., assignor of one-half to J. J. Bradley, Philadelphia, Pa. Amusing and mystifying coin-in-the-slot machine	607,062	July 12	794	173	84	173
Mahan, Patrick F., assignor of one-half to G. B. Wilson, Jersey City, N. J. Apparatus for use in slaughter-houses	614,736	Nov. 22	2707	616	85	1185
Maher, Annie, New Orleans, La. Cleaning and polishing composition	599,003	Feb. 15	1594		82	940
Maher, Edward, Newark, N. J. Manhole head and cover	611,640	Oct. 4	87	21	85	19
Maher, John W. (See Spanier, Waldemar H., assignor.)						
Mahler, William, New York, N. Y. Incandescent-lighting substance	606,726	July 5	163		84	34
Mahler, William, New York, N. Y. Apparatus for forming and baking incandescent-light mantles	609,034	Aug. 16	1614	384	84	1000
Mahon, Ormsby L., Baltimore, Md., assignor to American Fastener Company of Baltimore City. Two-part separable button	608,410	Aug. 2	438	96	84	743
Mahon, Richard. (See Hunter, Homewood, and Mahon.)						
Mahone, Milton C. (See Boyd, Walter E., assignor.)						
Mahoney, James T., and E. F. Griffiths, Philadelphia, Pa.; said Mahoney assignor to said Griffiths. Prepayment gas-meter	601,576	Mar. 29	3457	786	82	1961
Mahoney, John J., <i>et al.</i> (See Pennan, William T., assignor.)						
Mahoney, Michael F., Philadelphia, Pa. Trousers-stretcher	608,295	Aug. 2	219	51	84	698
Mahony, John J., <i>et al.</i> (See Fraser, Ethelbert M., assignor.)						
Maiche, Louis, Paris, France. Apparatus for sterilizing water	597,994	Jan. 25	2654	620	82	564
Maiche, Louis, Paris, France. Purifying spirit	604,996	May 31	3203		83	1306
Maier, Charlotte L., Rutherford, N. J. Bib	615,293	Dec. 6	131	35	85	1438
Maier, Eberhart W. and G. E., Troy, Ohio. Axle-cutter	612,743	Oct. 18	2040	485	85	415
Maier, Franz J., Trenton, N. J. Spring-mattress	613,843	Nov. 8	1102	251	85	846
Maier, George E. (See Maier, Eberhart W. and G. E.)						
Maignen, Jean A., Philadelphia, Pa. Filter	615,399	Dec. 6	349	83	85	1480
Maignen's Filtre-Rapide and Anti-Calcaire Company. (See Ellis, Alfred A., assignor.)						
Maillot, John W., New York, N. Y. Knife-sharpener	602,192	Apr. 12	1057	231	83	213
Mailloux, Cyprien O., New York, N. Y. Charging secondary batteries	614,228	Nov. 15	1764	405 406	85	996
Main, Jacob F., assignor to T. S. Paterson, Boston, Mass. Hat and coat hook	599,062	Feb. 15	1696	402	82	960
Mainella, Felix. (See Leu, Frederick, assignor.)						
Maisch, Joseph. (See Baker, Robert J., assignor.)						
Mait, Joseph, Los Angeles, Cal. Concentrator	610,764	Sept. 13	1118	255 256	84	1674
Maitland, Alexander, <i>et al.</i> (See Neeley, George S., assignor.)						
Maitland, Alexander. (See Neeley, Maitland, and Birkicht.)						
Maitland, Howard L., Nantucket, Mass. Tool for splicing wires	608,467	Aug. 2	530	118	84	761
Majert, Wilhelm, Grunau, Germany. Plate for accumulators	599,718	Mar. 1	71	16	82	1230
Majert, Wilhelm, Grunau-Berlin, Germany. Purifying orthotoluenesulfo-chlorid	603,195	Apr. 26	2776		83	572
Major, John H., Bellevue, Tex. Repair-tool for wire fences	614,563	Nov. 22	2381	544 674 675	85	1124
Makepeace, Thomas, Ryde, and A. S. Fowles, Cowes, England. Screw-propeller	613,211	Oct. 25	2865		85	596
Makin, Edward, Jr., Manchester, England. Steam-boiler	599,853	Mar. 1	334	75	82	1276
Makin, Edward, Jr., Manchester, England. Steam-boiler for marine engines	599,854	Mar. 1	335	75, 76	82	1276
Makin, Edward, Jr., Manchester, England. Steam-generator	604,496	May 24	2352	533	83	1123
Makutchan, H. E. (See Makutchan, William H., assignor.)						
Makutchan, William H., assignor of one-half to H. E. Makutchan, Princeton, Ill. Buggy	599,298	Feb. 15	2086	494	82	1031
Males, Judson L., Paterson, N. J. Combined cycle and speed-tester	600,229	Mar. 8	1135	259	82	1456
Malhère, Alfred H., <i>et al.</i> (See Malhère, Léon L. F., assignor.)						
Malhère, Ernest F., <i>et al.</i> (See Malhère, Léon L. F., assignor.)						
Malhère, Léon L. F., Beaumont le Royer, France, assignor of two-thirds to E. F. and A. H. Malhère. Braiding-machine	613,380	Nov. 1	289	66 67 68	85	673
Mali, Charles M., New York, N. Y. Photographic-film holder	606,727	July 5	164	36	84	34
Malke, Ernst, Leipsic, Germany. Note-sheet	598,323	Feb. 1	447	107	82	687
Malkemus, Charles H., Linden, assignor to G. O. McQueen, Stockton, Cal. Sulky horse-hoe	598,603	Feb. 8	917	220	82	795
Mallard, William S., assignor of one-half to R. Manson, Darien, Ga. Cigarette-former	604,623	May 24	2570	586	83	1165
Mallen, Edward J., New York, N. Y. Pipe-coupling	596,817	Jan. 4	638	146	82	123
Mallen, Edward J., New York, N. Y. Pipe-collar	608,060	July 26	2844	606	84	606
Mallett, Charles E., New York, N. Y. Cotton-press	607,063	July 12	796	173 174	84	173
Malley, Edwin. (See Cadman and Malley.)						
Mallin, Isaac H., Chicago, Ill. Necktie-fastener	603,236	Apr. 26	2847	649	83	585
Mallmann, James, assignor to Sheboygan Register Company, Sheboygan, Wis. Cash-register	598,266	Feb. 1	344	79, 80	82	666
Mallo, Albert W., Leavenworth, Kans. Fruit-jar and cover for same	597,083	Jan. 11	1106	261	82	232
Malloch, Andrew M. (See Brogan, Malloch, and Craig.)						
Mallon, James, assignor of one-half to J. W. Bodley, New Orleans, La. Cane-sling	610,816	Sept. 13	1219	281	84	1695



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Mallory, Ernest E., West Unity, Ohio. Folding umbrella or parasol.....	608,694	Aug. 9	943	217	84	862
Mallory, Ernest E., West Unity, Ohio. Umbrella.....	612,045	Oct. 11	811	200	85	169
Mallory, Ernest E., West Unity, Ohio. Umbrella.....	612,253	Oct. 11	1181	283	85	239
Mallory, Frank B., <i>et al.</i> (See Ernst, John C., assignor.)						
Mallory, James L. (See Ellis, William R., assignor.)						
Mallory, James L., <i>et al.</i> (See Hill, Edward A., assignor.)						
Malmborg, Ernst R., Chicago, Ill., assignor to W. B. Martindale, Rochester, Ind. Post-marking and canceling machine.....	615,031	Nov. 29	3273	<div>750 751 752 753 754</div>	85	1311
Malmstrom, Peter E., New York, N. Y. Apparatus for making and dispensing mineral waters.....	602,909	Apr. 26	2288	522	83	478
Malmstrom, Peter E., assignor to Diamond Soda Water Manufacturing Company, New York, N. Y. Apparatus for carbonating and dispensing liquids.....	603,404	May 3	275	61, 62	83	652
Malone, Glenn C., assignor of one-half to F. E. Van Wormer, Binghamton, N. Y. Lathe attachment.....	599,510	Feb. 22	2524	593	82	1139
Maloney, Andrew J., Providence, R. I. Steam-boiler.....	597,727	Jan. 25	2189	511	82	476
Maloney, Bernard J., Edinburgh, Scotland. Means for securing wheels to axles.....	607,064	July 12	800	175	84	174
Maloney, Joseph A., <i>et al.</i> (See Hutchison, Reese, assignor.)						
Maloney, Oscar, <i>et al.</i> (See Perkins, George E., assignor.)						
Malpas, Charles, deceased; M. G. Malpas, Tunstall, England, administrator. Kiln or oven.....	612,779	Oct. 18	2112	502	85	428
Malpas, Mark G., administrator. (See Malpas, Charles.)						
Malsch, Frank, Philadelphia, Pa., assignor to Industrial Manufacturing Company, Camden, N. J. Overseam sewing-machine.....	602,993	Apr. 26	2435	<div>555 556</div>	83	507
Malsch, Frank, assignor to Industrial Manufacturing Company, Camden, N. J. Feeding device for sewing-machines.....	614,271	Nov. 15	1856	429	85	1013
Malven, James H., Arkansas Junction, Colo. Railway-spike.....	605,790	June 14	1351	309	83	1629
Manasse, Otto, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst, Germany. Oxycamphor and making it.....	610,361	Sept. 6	423		84	1520
Manchester Cycle Components. (See Kitchen, John G. A., assignor.)						
Manchester, Scott, Wethersfield, Conn. Toy watch and coin-retainer.....	611,039	Sept. 20	1607	368	84	1785
Mancill, Thomas J., Maben, Miss. Colter-band.....	598,380	Feb. 1	530	129	82	702
Mandel, Joseph, Logansport, Ind. Revolving display-case.....	615,032	Nov. 29	3281	755	85	1313
Mandl, Alexander, assignor to M. Stiefel, New York, N. Y. Sofa-bed.....	604,997	May 31	3203	737	83	1306
Mandleberg, Goodman C., Manchester, and J. J. Young, London, England. Back-pedal-ing brake.....	615,564	Dec. 6	648	<div>148 149</div>	85	1588
Mandt, Targe G., assignor to T. G. Mandt Vehicle Company, Stoughton, Wis. Sleigh.....	605,676	June 14	1137	<div>263 264</div>	83	1589
Manes, James, assignor of one-fourth to L. H. Flanders, Denver, Colo. Metallurgical furnace.....	602,761	Apr. 19	2017	<div>457 458</div>	83	412
Mangels, William F., assignor of one-half to W. S. Smith, Brooklyn, N. Y. Bicycle-rail-way.....	604,998	May 31	3205	<div>737 738</div>	83	1306
Manger, Ernest M., <i>et al.</i> (See Hieatzman, Arthur H., assignor.)						
Mangum, Zebulon H., Chester, S. C. Machine for unwinding warp-threads.....	605,965	June 21	1716	<div>393 394</div>	83	1716
Manhattan Brass Company. (See White, James H., assignor.)						
Manhattan Electric Company. (See Boeschenstein, Albert E., assignor.)						
Manhattan General Construction Company. (See Harris, Max, assignor.)						
Manhattan Optical Company. (See Lange, George C. O., assignor.)						
Manhattan Rubber Manufacturing Company. (See Smith, Frank C., assignor.)						
Manhattan Typewriter Company. (See Price, John B., assignor.)						
Manice, William, <i>et al.</i> (See Clark, Bainbridge P., assignor.)						
Manire, Moses E., and T. Hood; said Manire assignor to W. H. Snow and W. T. Mayfield; said Hood assignor of one-half to J. McCarthy, Norman, Okla. Ter. Plow-bar protector.....	609,892	Aug. 30	3182	746	84	1334
Manix, Edward, Caledonia, Minn. Hog-snout cutter.....	601,399	Mar. 29	3175	717	82	1903
Manley, Horace A., Boston, Mass., assignor to Universal Advertising Machine Company, of Maine. Coin-controlled mechanism.....	603,792	May 10	991	<div>221 222</div>	83	810
Manlove, Joseph L., Milton, Ind. Gate.....	609,035	Aug. 16	1615	<div>384 385</div>	84	1000
Mann, Adolf, and E. Schäfer, Barmen, Germany. Skirt-protector.....	614,481	Nov. 22	2255	516	85	1102
Mann, Alexander S. (See Sebastian, Charles, assignor.)						
Mann, Bernard. (See Booth and Plummer, assignors.)						
Mann, Charles A., Bangor, Me. Means for draining car-roofs.....	600,881	Mar. 22	2266	517	82	1703
Mann, Henry L., assignor to J. R. Clark Company, Minneapolis, Minn. Machine for making clothes-pins.....	610,490	Sept. 6	649	<div>145 146 147</div>	84	1563
Mann, John, Butte City, Cal. Rotary sand-pump.....	610,992	Sept. 20	1531	351	84	1771
Mann, John J., Paris, France. Machinery for cutting weft pile fabrics.....	616,716	Dec. 27	2823	<div>653 654</div>	85	2015
Mann, Paul A. (See Ennis, Charles, assignor.)						
Manning, Charles E. (See Streeter, Daniel H., assignor.)						
Manning, Charles E., Chicago, Ill. Light-reflecting sign-board.....	601,577	Mar. 29	3461	787	82	1961
Manning, Charles J., Cambridge, assignor of one-half to W. F. Peacock, Boston, Mass. Combined chair toy savings-bank and puzzle.....	608,001	July 26	2726	582	84	580
Manning, Ebenezer F. and J. Elkhart, Ind.; said J. Manning assignor to said Ebenezer F. Manning; said Ebenezer F. Manning assignor of one-half to R. C. Atkinson, Cassopolis, Mich. Wire-stretcher.....	605,496	June 14	807	187	83	1528
Manning, Edward B., and M. Seips, Meriden, Conn. Spirit-lamp.....	599,147	Feb. 15	1834	435	82	984
Manning, Edward B., and M. Seips, Meriden, Conn. Handle for tea or coffee pots.....	599,986	Mar. 1	566	131	82	1320
Manning, Edward J., assignor to Wagner Typewriter Company, New York, N. Y. Indicating mechanism for type-writers.....	609,036	Aug. 16	1617	385	84	1000
Manning, Edward J., assignor to Wagner Typewriter Company, New York, N. Y. Tabulating mechanism for type-writers.....	609,517	Aug. 23	2514	<div>588 589</div>	84	1191
Manning, Edward J., assignor to Wagner Typewriter Company, New York, N. Y. Type-writing machine.....	612,858	Oct. 25	2276	543	85	478
Manning, Edward S., Des Moines, Iowa. Signal-lamp for railways, &c.....	608,695	Aug. 9	947	217	84	862
Manning, Frank H., and J. P. Bouchet, Oshkosh, Wis. Car-cuspidor.....	606,871	July 5	440	94	84	87
Manning, Henry F., Emmitsburg, Md., and J. K. Robison, Detroit, Mich.; said Robison assignor to C. N. Dugan, Baltimore, Md. Recording platform or gangway.....	614,119	Nov. 15	1568	<div>358 359</div>	85	959
Manning, J. J., trustee. (See Stark, William H., assignor.)						
Manning, James, Water Valley, Tex. Collecting and conveying water.....	599,719	Mar. 1	72	17	82	1230
Manning, John. (See Manning, Ebenezer F. and J.)						
Manning, John, and J. R. S. Hayes, London, England. Smoothing and pressing iron.....	604,060	May 17	1528	<div>343 344</div>	83	947
Manning, John L., Bartow, Fla. Pruning implement.....	598,428	Feb. 1	626	154	82	721



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Manning, Martin P. (See Molloy and Kirchner, assignors.)						
Manning, Stephen H., <i>et al.</i> (See Reynolds, Frank A., assignor.)						
Manny, Emilian A., assignor to D. Rochette, Beauharnois, Canada. Canal-lock	610,548	Sept. 13	758	173	84	1600
Manny, Eugène S., assignor to himself, W. Robinson, and A. D. Lanskaill, Montreal, Canada. Hot-water and steam boiler	597,683	Jan. 18	2111	494	82	443
Manny, Frank B. (See Mehling, John A., assignor.)						
Manny, Joseph, Butler, Pa. Clothes-rack for bedsteads	607,254	July 12	1168	249	84	241
Manoury, Henri A. J., Paris, France. Sugar-boiling	599,148	Feb. 15	1835		82	985
Manoury, Henri A. J., Paris, France. Defecating sugar-juices	601,305	Mar. 29	3023		82	1875
Mansfield, Albert K., Salem, Ohio. Throttle-valve	604,771	May 31	2838	649	83	1234
Mansfield, George W., Brookline, Mass. Spectacles	615,624	Dec. 6	754	174	85	1561
Mansfield, James W. (See Miehle and Mansfield.)						
Mansione, Gaetano P., New York, N. Y. Elevator	612,780	Oct. 18	2114	502 503	85	429
Manson, George W., New York, N. Y. Bicycle	616,421	Dec. 20	2241	522 523	85	1882
Manson, Robert. (See Mallard, William S., assignor.)						
Mansur, Guy H., St. Louis, Mo. Singletree	614,876	Nov. 29	2963	681	85	1250
Manuel, David, Hyde Park, assignor of two-thirds to L. A. Smith, Boston, Mass. Flush sliding door	609,893	Aug. 30	3183	746	84	1334
Manufacturers and Merchants Warehouse Company. (See Klahn, Emil, assignor.)						
Manula, Erik, Astoria, Oreg. Can-soldering machine	611,330	Sept. 27	2170	502	84	1912
Manula, Erik, Astoria, Oreg. Machine for casting leads on fish-net lines	613,863	Nov. 8	1137	261	85	853
Manvell, George J. J., Littlehampton, England. Gage-glass protector for boilers	599,511	Feb. 22	2525	594	82	1139
Manville, Sidney O. (See Hardwick and Manville.)						
Manzel, Franz D. E., New York, N. Y. Air-supply and vent device for beer-kegs	612,591	Oct. 18	1759	416	85	361
Maquaire, Jules A., Paris, France. Fibrous material	606,067	June 21	1907	439	83	1750
Marable, Adolphus C. (See Campbell and Marable.)						
Marangolo, Henry, New York, N. Y. Compound for treating glass	597,806	Jan. 25	2337		82	504
Marangos, Apostolos, Marseilles, France. Elevator for granular material	607,255	July 12	1169	250	84	241
Marbach, Herman L. (See Moon and Marbach.)						
Marbach, William A., Cleveland, Ohio. Handle-bar for bicycles	615,868	Dec. 13	1168	273	85	1653
Marble, Edwin H. (See Marble, Edwin T. and E. H.)						
Marble, Edwin T. and E. H., Worcester, Mass. Lappet-shearing machine	604,772	May 31	2840	649 650	83	1234
Marble, Edwin T. and E. H., Worcester, Mass. Cloth-inspecting machine	608,468	Aug. 2	532	119	84	761
Marble, George E., Burt, Iowa. Egg-crate fastener	598,796	Feb. 8	1237	299	82	854
Marble, Webster L., Gladstone, assignor of one-half to F. H. Van Cleve, Escanaba, Mich. Safety-guard for axes	604,624	May 24	2572	586	83	1165
March, Jacob M., Narberth, assignor to March Weather Strip Company, Philadelphia, Pa. Weather-strip	598,381	Feb. 1	531	129	82	702
March Weather Strip Company. (See March, Jacob M., assignor.)						
Marchal, Walter E. F., St. Mandé, France. Driving-chain cover	609,037	Aug. 16	1619	385	84	1000
Marchal, Walter E. F., St. Mandé, France. Driving-chain cover. (Reissue)	11,700	Oct. 25	2893	681	85	601
Marchand, Prosper E. (See Emringer and Marchand.)						
Marchildon, Emile A. (See Duplessis, Elouild, assignor.)						
Marconnett, Georges A., Paris, France. Thermal expansion-engine	611,813	Oct. 4	384	92	85	77
Marcott, Demoss, and G. Esveltdt, assignors of one-third to W. L. Finton, Spokane, Wash. Tire-tightener	614,017	Nov. 8	1386	318	85	903
Marcotte, Thomas, Stroudwater, assignor of one-half to W. H. Stevens, Portland, Me. Trace-fastening	599,079	Feb. 15	1718	408	82	964
Marcus, David, London, England. Composition for dressing leather	602,762	Apr. 19	2019		83	413
Marcus, David, London, England. Lacquer and lacquering	603,913	May 10	1220		83	853
Marcus, Morris H., Homestead, Pa. Curtain-pole holder	601,024	Mar. 22	2503	569	82	1747
Marcuson, Philip, Baltimore, Md. Finger-guide for musical instruments	602,862	Apr. 26	2206	500	83	464
Marcy, Frank M., Worcester, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Method of and apparatus for truing spinning-rings	606,675	July 5	75	16	84	17
Marengo, Pietro. (See Pratis and Marengo.)						
Margesin, Anton, Zurich, Switzerland. Aerial cable-railway	609,687	Aug. 23	2842	664 665	84	1254
Margeson, Andrew A., and J. B. Schmitt, Cincinnati, Ohio. Step-ladder	598,677	Feb. 8	1047	252	82	818
Margeson, Manly E., Ontario, Ind. Gate	613,455	Nov. 1	437	100	85	700
Margolies, Edward, New York, N. Y. Car spit-box	600,923	Mar. 22	2335	531	82	1716
Marino, Pascal, Paris, France. Electrolytic bath	607,646	July 19	2060		84	436
Marion, Jonathan N., Louisville, Ky. Machine for separating fine gold flakes from sand	604,566	May 24	2481	565	83	1147
Maris, Charles E., Philadelphia, Pa. Motive-fluid-supply device for traveling cranes	598,429	Feb. 1	627	154	82	722
Maris, John M., Chicago, Ill. Bolster for railway-cars	601,270	Mar. 29	2952	668	82	1862
Maris, John M., Chicago, Ill. Rolled-steel bolster for cars	602,910	Apr. 26	2292	522	83	479
Mark, Clayton B., Lebanon, Pa. Hitching-post	610,993	Sept. 20	1532	352	84	1771
Mark, Jacob, New York, N. Y. Lens for illuminating tiles	602,763	Apr. 19	2020	458	83	413
Markel, Adam, assignor to Pottier & Styms Company, New York, N. Y. Combined bed and sofa	607,182	July 12	1025	222	84	215
Markel, Emerich J. (See Pehl and Markel.)						
Marker, Christian, Corry, Pa. Extension-table	604,939	May 31	3119	716	83	1289
Marker, George H., Sioux Falls, S. D. Antirattler	599,184	Feb. 15	1892	448	82	994
Marker, Stephen A., Newark, N. J., assignor of one-half to W. H. Frisby, New York, N. Y. Time-recorder	614,564	Nov. 22	2382	545	85	1125
Market Street Railway Company. (See Douglas, George W., assignor.)						
Markie, Emma, assignor of one-half to E. S. Arms, Cleveland, Ohio. Bone-casing tape	598,734	Feb. 8	1147	275	82	837
Markle, Arvilla S., Oskaloosa, Iowa. Abdominal bandage	611,920	Oct. 4	564	137	85	112
Markle, George N. (See Gearhart and Markle.)						
Markmann, Ernest, Philadelphia, Pa. Tidal power	608,783	Aug. 9	1090	251 252	84	887
Marko, Louis K. (See Brown, William Z., assignor.)						
Markoe, John A., assignor to L. J. Markoe, White Bear Lake, Minn. Voting-machine	596,894	Jan. 4	753	178	82	147
Markoe, Lorenzo J. (See Markoe, John A., assignor.)						
Marks, Albert J., <i>et al.</i> (See Hamilton, Jonathan R., assignor.)						
Marks, Jacob O., Urbana, Ill. Car-coupling	607,183	July 12	1028	222 223	84	215
Marks, Jacob O., Urbana, Ill. Lubricating-bearing	607,184	July 12	1031	223	84	216
Marks, Jacob O., Urbana, Ill. Gate	610,407	Sept. 6	510	111 112	84	1537
Marks, Louis Z. (See Newman and Marks.)						
Marks, Wesley N. (See Fritzius and Marks.)						
Marks, Wesley N., Braddock, Pa. Journal-box for railway-cars	604,539	May 24	2428	552	83	1136
Marks, William D., assignor to American Electric Meter Company, Philadelphia, Pa. Electric meter	607,185	July 12	1032	223	84	216



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Marks, William D., assignor to American Electric Meter Company, Philadelphia, Pa. Electric-meter case	612,427	Oct. 18	1477	357	85	308
Marks, William D., assignor to American Electric Meter Company, Philadelphia, Pa. Electric meter or indicator	612,781	Oct. 18	2116	503	85	429
Marks, William D., and G. R. Green, assignors to American Electric Meter Company, Philadelphia, Pa. Electric meter	612,426	Oct. 18	1473	356 357 333 334 335	85	307
Marles, Henry, London, England. Carving-machine	616,002	Dec. 13	1429	334 335	85	1704
Marley, Samuel S., assignor of one-half to H. B. Duncan, Wilmington, Del. Envelop-moistener	597,010	Jan. 11	969	229	82	204
Marley, William H., Pittsburg, Pa. Luggage-carrier and support for bicycles	615,625	Dec. 6	756	174	85	1561
Marlin, Kemuel L., Theta, Tenn. Bit-stock	596,604	Jan. 4	261	58	82	52
Marling, Walter B., Sydney, England. Bicycle-brake	613,165	Oct. 25	2762	650 651	85	576
Maroney, Thomas, Buffalo, N. Y. Car-replacer	607,256	July 12	1171	250 251	84	241
Marotte, Alfred, assignor to S. De la Grange, Paris, France. Flexible shaft	597,559	Jan. 18	1898	442	82	404
Marquardt, G. W. (See Lloyd, John W., assignor.)						
Marquis, Isaac N., Argentine, Kans. Mop-wringer	612,116	Oct. 11	936	227	85	193
Marrin, Thomas. (See Gumphert, George A., assignor.)						
Marriott, Frederick. (See Currie, Shepard H., assignor.)						
"Mars" Automatic Fire-Arms Syndicate. (See Gabbett-Fairfax, Hugh W., assignor.)						
Marsch, Christian, Hermann, Mo. Fence	597,684	Jan. 18	2113	494	82	444
Marschner, Carl, Berlin, Germany. Plate for secondary galvanic batteries and composition for producing same	608,614	Aug. 9	796	184	84	832
Marsden Company. (See Madden, Albert F., assignor.)						
Marsden Company. (See Wiley, Harvey W., assignor.)						
Marsden, Thomas R., Oldham, England. Exhaust-opener lap-machine	609,155	Aug. 16	1848	439	84	1042
Marsden, Thomas R., Oldham, England. Feeding mechanism for carding-machines	610,655	Sept. 13	932	216	84	1637
Marsden, Thomas R., Oldham, England. Beater-machine for opening textile materials	612,548	Oct. 18	1676	399	85	346
Marsden, Thomas R., Oldham, England. Feeding-machine for carding-machines	612,566	Oct. 18	1718	407 408	85	354
Marsden, Thomas R., and H. Walsh, Oldham, England. Stripping-comb	607,938	July 26	2618	556	84	560
Marsden, Walter H., Salisbury, South Australia. Trousers	598,604	Feb. 8	919	221	82	795
Marsh, Charles W. E. (See Price, Marsh, and Laybourne.)						
Marsh, Edward A., Newton, Mass., and F. Leach, New York, N. Y., assignors to American Waltham Watch Company, Waltham, Mass. Box	616,625	Dec. 27	2619	607	85	1974
Marsh, Edward B. (See Johnson and Marsh.)						
Marsh, Henry, Frankfort, N. Y. Adjustable handle for dust-pans	615,565	Dec. 6	650	149	85	1539
Marsh, James A., Cleveland, Ohio. Advertising-machine	613,166	Oct. 25	2763	651	85	576
Marsh, Leonardo M., Warrensburg, Mo. Device for tightening tires	608,989	Aug. 9	1509	357	84	965
Marsh, William A., and H. N. Pharr, near Berwick, La. Cane-conveyer	601,578	Mar. 29	3461	787	82	1962
Marsh, William H., Brooklyn, assignor to Standard Water Meter Company, New York, N. Y. Rotary fluid-meter	597,066	Jan. 11	1068	250	82	224
Marsh, William Z., assignor of one-half to J. Thompson, Brooks, Iowa. Vehicle-axle and adjustable sand-band	615,869	Dec. 13	1169	273	85	1654
Marsh, Willis L., Jefferson City, Mo. Liquid supplying and distributing machine	611,264	Sept. 27	2049	472	84	1889
Marshall, Albert L., New Orleans, La. Cane-crusher	608,885	Aug. 9	1305	304	84	927
Marshall, Aquila B., New York, N. Y., assignor to Boynton Furnace Company, of New York. Steam or hot-water heater	600,267	Mar. 8	1212	275	82	1470
Marshall, Edward S., assignor to Missouri Railway Equipment Company, St. Louis, Mo. Car-door	601,665	Apr. 5	73	14	83	15
Marshall, Frank H., Marietta, Ohio. Hose-coupling	602,863	Apr. 26	2207	500	83	464
Marshall, Frank L., Boston, Mass. Dental plugger	597,469	Jan. 18	1761	408	82	376
Marshall, George, Fremont, Nebr. Steam-engine	612,952	Oct. 25	2428	578	85	509
Marshall, George S., assignor to Missouri Railway Equipment Company, St. Louis, Mo. Timber-pocket	607,867	July 26	2494	529	84	536
Marshall, Henry C. (See Frack, Alfred B., assignor.)						
Marshall, Ianthus E., Martinez, Cal. Vaulting gate	598,227	Feb. 1	276	62	82	655
Marshall, James J., Sydney, New South Wales. Waiting-tray	614,565	Nov. 22	2389	545	85	1126
Marshall, John. (See Eaton, John O., assignor.)						
Marshall, John B., Fresno, Cal. Non-refillable bottle	603,110	Apr. 26	2635	598	83	544
Marshall, Lewis C., assignor to F. W. Bird & Son, Walpole, Mass. Car-roof	606,996	July 5	640	139	84	127
Marshall, Porter, assignor of one-half to A. S. Howard, Fair Play, Mo. Sash lock and lift	598,797	Feb. 8	1238	299	82	854
Marshall, Richard D., Sedalia, Mo., and W. M. Curry, Hepler, Kans. Thill-coupling	612,859	Oct. 25	2278	543	85	479
Marshall, William D., Franklin Square, Ohio. Barrel-hoop	601,079	Mar. 22	2588	590	82	1764
Marshall, William L., Chicago, Ill. Automatic dam, gate, or weir	596,755	Jan. 4	533	122 123	82	103
Marshall, William M., Philadelphia, Pa., assignor of one-half to C. M. Busch, Washington, D. C. Exercising device	610,716	Sept. 13	1034	239 543	84	1658
Marshman, Newman R., and L. S. Burrige, assignors to American Typewriter Company, New York, N. Y. Type-writing machine	599,397	Feb. 22	2302	544 545	82	1096
Marston, Charles H., North Hampton, N. H. Fodder-binder and package-carrier	614,966	Nov. 29	3149	724	85	1289
Marston, Oliver H., Stoneham, Mass. Machine for measuring medicinal powders	596,756	Jan. 4	539	123 124	82	103
Martenette, Francis L., Chico, Cal. Apparatus for making gas from oil	610,994	Sept. 20	1533	352	84	1771
Martenette, Frank L., Chico, Cal. Carbureter	613,167	Oct. 25	2765	652	85	577
Martin, A. F. (See Johnson and Cahill, assignors.)						
Martin, Abraham, Paris, France. Electrotherapeutic exercising apparatus	600,230	Mar. 8	1137	259	82	1457
Martin, Albert R., assignor to Automatic Roller Printer Company, Beaver Falls, Pa. Printing attachment for paper-rolls	605,061	May 31	3317	761 762	83	1327
Martin, Arthur C. (See Martin, Samuel and A. C.)						
Martin, Bertha E., Asbury Park, N. J. Skirt	608,469	Aug. 2	534	119	84	761
Martin, Carl, assignor, by mesne assignments, to Fried. Krupp Grusonwerk, Magdeburg-Buckau, Germany. Gun-mounting	601,154	Mar. 22	2705	622	82	1787
Martin, Carlos R. (See Shields, Spinelli, and Martin.)						
Martin, Carlos R., and L. A. Spinelli, San José, Cal. Automatic pressure-equalizing beer-faucet	609,554	Aug. 23	2576	603	84	1202
Martin, Charles H., Marshall, Ill. Lace or ribbon cabinet	602,344	Apr. 12	1303	289	83	263
Martin, Charles M. (See Brockett, Atwater E., assignor.)						
Martin, Christian S., Elizabethtown, Pa. Gate-latch	610,304	Sept. 6	316	68	84	1502
Martin, Daniel W., Dayton, Ohio. Piano-truck	612,523	Oct. 18	1630	389	85	338
Martin, Edmond. (See Flanagan and Martin.)						
Martin, Emmett, Fort Wayne, Ind. Drainage-trap	597,822	Jan. 25	2359	551	82	508



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Martin, Frank. (See Storer, Martin, and Eaton.)						
Martin, Frank M., <i>et al.</i> (See Schwechler, John, assignor.)						
Martin, George, Southport, England. Carding-engine	600,882	Mar. 22	2267	517	82	1703
Martin, George E., assignor to Pratt & Cady Company, Hartford, Conn. Rotary-plug cock.	597,728	Jan. 25	2191	511	82	476
Martin, George F., Eastleigh, England. Rail and joint therefor	609,826	Aug. 30	3076	717	84	1313
Martin, George F., assignor of one-half to A. Griffith, Springfield, Mass. Mattress-filling machine	599,299	Feb. 15	2088	495	82	1032
Martin, George T., Smith's Falls, Canada. Bicycle-gear	613,697	Nov. 8	834	191	85	796
Martin, Harold G., Providence, R. I. Bicycle-bell	603,279	May 3	62	15	83	613
Martin, Harry, Salt Lake City, Utah. Miner's knife	613,698	Nov. 8	835	191	85	796
Martin, Harry L., assignor to himself and H. H. Nissley, Elizabethtown, Pa. Spring-gear for vehicles	600,495	Mar. 8	1611	368	82	1546
Martin, Henry. (See Furnivall and Martin.)						
Martin, Henry D. (See Tolman and Martin.)						
Martin, Henry D., Shirley, Mass. Puzzle apparatus	607,257	July 12	1173	251	84	242
Martin, Henry M., Newark, Ohio. Adjustable bed	603,651	May 10	751	166 167	83	763
Martin, James (See Bland, Henry, assignor.)						
Martin, James L., Marion Centre, Pa. Device for sharpening horseshoe-calks	600,734	Mar. 15	2022	460	82	1643
Martin, Jerome W., Kansas City, Mo. Wire tightening and holding device	614,737	Nov. 22	2707	617	85	1185
Martin, John, Melbourne, Victoria. Means for supplying hot air to furnaces	598,798	Feb. 8	1239	300	82	854
Martin, John A. (See Davis, Frederick, assignor.)						
Martin, John L., New York, N. Y. Bicycle-hanger	610,656	Sept. 13	933	217	84	1637
Martin, John L., Beaumont, Tex. Handle-bar	610,328	Sept. 6	359	76	84	1510
Martin, John W., Richwood, Ohio. Pie safe or canister	615,457	Dec. 6	448	105	85	1499
Martin, Joseph B., and C. T. Gamble, Almy, Wyo. Horse-releasing device	610,995	Sept. 20	1534	352	84	1772
Martin, Joseph H., and D. Ormand, Riverside, Cal. Machine for constructing irrigating or other flumes	615,085	Nov. 29	3379	774	85	1330
Martin, Lewis, New York, N. Y. Oil-can	601,797	Apr. 5	332	67	83	63
Martin, Louis L., Toronto, Canada. Bicycle-holder	607,545	July 19	1876	389	84	402
Martin, Miles, Marshall, Ind. Draft-equalizer	604,902	May 31	3055	702	83	1277
Martin, Morris, Malden, Mass., assignor, by mesne assignments, to F. B. Herzog, New York, N. Y. Signaling apparatus	614,404	Nov. 15	2099	483	85	1059
Martin, Patrick A., Birmingham, England. Pneumatic tire	612,254	Oct. 11	1183	284	85	239
Martin, Peter. (See Holford, Lee, assignor.)						
Martin, Robert H., New York, N. Y. Non-conducting covering	616,479	Dec. 27	2359	548	85	1927
Martin, Samuel and A. C., Muddy Creek Forks, Pa. Turbine water-wheel	600,735	Mar. 15	2023	460	82	1643
Martin, Stephen C., Tifton, Ga. Ironing-table	609,688	Aug. 23	2843	665	84	1254
Martin, Thomas E., North Rush, N. Y. Spraying apparatus	598,945	Feb. 15	1496	356 357	82	920
Martin, Thomas E., North Rush, N. Y. Force-pump	599,004	Feb. 15	1594	378 379	82	940
Martin, Thomas W. (See McLaughlin, James R., assignor.)						
Martin, William D., Sr., Jackson, Tenn. Well-bucket	603,569	May 3	595	132	83	716
Martin, William D., Warsaw, N. Y. Mop-wringer	610,549	Sept. 13	763	173	84	1601
Martin, William H., Mobile, Ala. Elevated cycle-railway	596,895	Jan. 4	757	178 179	82	148
Martin, William H., Mobile, Ala. Track and track-support for elevated cycle-railways	599,855	Mar. 1	336	76	82	1277
Martin, William H., Los Angeles, Cal. Car-fender	607,118	July 12	909	197	84	194
Martin, William S. T. (See Morris and Mumford, assignors.)						
Martin, Willis F. (See Jackson, William H., assignor.)						
Martindale, Moses A., Elkhart, Ind. Land-roller	616,717	Dec. 27	2824	654	85	2015
Martindale, Warren B. (See Malmberg, Ernst R., assignor.)						
Martiny, Mathias, Dyersburg, Tenn. Fire-escape	601,445	Mar. 29	3254	736	82	1918
Martyn, Fred M., assignor of one-half to J. T. Freeman and H. F. Davis, Woburn, Mass. Handle-bar for bicycles	613,014	Oct. 25	2523	600	85	528
Martyn, Henry L., Philadelphia, Pa. Hat-fastener	600,543	Mar. 15	1703	390	82	1583
Martz, Eduard. (See Krekeler and Martz.)						
Martz, Eduard. (See Krekeler, Martz, and Israel.)						
Martz, Randolph N., Frederick, Md. Collar and cuff turner and edge-polisher	610,657	Sept. 13	935	217	84	1638
Martz, Randolph N., assignor of two-thirds to S. D. Thomas and M. Fout, Frederick, Md. Shutter-worker	609,448	Aug. 23	2384	561	84	1167
Marvel, Theodore L., Taunton, Mass. Rope-coupling	608,836	Aug. 9	1306	305	84	927
Marvin, Edson E. (See Thomas and Nusser, assignors.)						
Marvin, Frank W., and G. B. Essex, Detroit, Mich. Lubricator	614,816	Nov. 22	2842	654	85	1212
Marvin, Harry N., assignor to American Mutoscope Company, New York, N. Y. Consecutive-view apparatus	614,738	Nov. 22	2709	617	85	1185
Marvin, Percy L. (See Myers, Charles H., assignor.)						
Marvin, Russell, assignor of one-half to S. N. E. Priddy, Findlay, Ohio. Device for distributing and equalizing power	602,087	Apr. 12	861	187 188	83	175
Marx, Benjamin, and H. Gassner, New York, N. Y. Magazine-camera	610,453	Sept. 6	580	128	84	1550
Maschinenfabrik Grevenbroich, Actiengesellschaft. (See Olberg, Gustav, assignor.)						
Maschinenfabrik Grevenbroich, vormals Langen & Hundhausen. (See Hirt, Ludwig, assignor.)						
Mascord, George W., Glenferrie, Victoria. Slug-cutting mechanism for linotype-machines	607,758	July 19	2241	473	84	470
Maskelyne, John N., Jr., London, England. Projecting kinetoscope	603,771	May 10	954	213	83	802
Mason, Amor J. and J. P., Philadelphia, Pa., assignors to Mason Manufacturing Company, of Pennsylvania. Belt-conveyer	614,306	Nov. 15	1909	441	85	1023
Mason, Charles T., assignor to Telephone Manufacturing Company, Sumter, S. C. Telephone gravity-switch	616,718	Dec. 27	2825	654	85	2015
Mason & Co., Perry. (See Humphrey and Upham, assignors.)						
Mason, Edrick W., Cleveland, Ohio. Safety-gate	602,460	Apr. 19	1509	344	83	316
Mason, F. H., <i>et al.</i> (See Poetz, John C., assignor.)						
Mason, George W. (See Johnston and Mason.)						
Mason, George W., Sharon, Pa. Bottle-stopper	605,966	June 21	1718	394	83	1716
Mason, Heber R., Ludington, assignor to Mason Telephone Pay Station Co., Limited, Mason county, Mich. Coin-actuated signal apparatus	597,362	Jan. 11	1560	364	82	320
Mason, Heber R., assignor to Mason Telephone Pay Station Company, Ludington, Mich. Coin-actuated signal apparatus	612,782	Oct. 18	2119	504	85	430
Mason, Henry T., Philadelphia, Pa. Package for medical preparations	611,136	Sept. 20	1796	413	84	1822
Mason, Herbert W., Glens Falls, N. Y. Stove or range	602,166	Apr. 12	1010	221 222	83	203
Mason, Irving W., Aberdeen, Wash. Tool for boring tapering holes	603,531	May 3	543	119	83	705
Mason, James H., assignor to J. W. Morrison and W. W. Lounsbury, Brooklyn, N. Y. Direct-acting oscillating electric motor	598,946	Feb. 15	1498	357	82	920



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Mason, James P. (See Mason, Amor J. and J. P.)						
Mason, John L., Davenport, Iowa. Sleigh-runner	613,699	Nov. 8	837	191 192	85	797
Mason, Joseph, assignor to American Mutoscope Company, New York, N. Y. Coin-operated device	603,111	Apr. 26	2636	599	83	545
Mason Machine Works. (See Meats, John T., assignor.)						
Mason Machine Works. (See Meats and Dean, assignors.)						
Mason Machine Works. (See Meats and Sargent, assignors.)						
Mason Manufacturing Company. (See Mason, Amor J. and J. P., assignors.)						
Mason, Manuel C., Fleeger, Pa. Automatic gate	597,995	Jan. 25	2656	620	82	565
Mason, Otis J., assignor to E. A. Ault, Lorain, Ohio. Crutch-tip	612,428	Oct. 18	1479	357	85	308
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Sidney, Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Means for transporting Welsbach or other incandescent mantles	616,548	Dec. 27	2491	576	85	1951
Mason Telephone Pay Station Company. (See Mason, Heber R., assignor.)						
Mason, Thomas, Topeka, Kans. Elevator-hoist	599,618	Feb. 22	2722	636 637	82	1177
Mason, Thomas, New York, N. Y. Spool-stand	605,254	June 7	375	85	83	1422
Mason, Virgil A., assignor of one-half to E. Covert, Austin, Tex. Trolley-pole	612,255	Oct. 11	1184	284	85	239
Mason, William. (See Bennett and Mason.)						
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for drilling gun-barrels	596,782	Jan. 4	578	133 134 135	82	111
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Detachably uniting barrels to stocks	605,111	June 7	73	21	83	1366
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Take-down gun	605,734	June 14	1225	283 284	83	1606
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Means for detachably uniting barrels to stocks	610,765	Sept. 13	1119	256 257	84	1675
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine-firearm	614,482	Nov. 22	2256	516 517	85	1102
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Take-down gun	616,719	Dec. 27	2826	655	85	2016
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Governor for steam-pumps	603,026	Apr. 26	2489	564	83	517
Mason, William R., assignor of three-fourths to S. M. Carlton, S. Walker, D. E. Morris, A. M. Walker, E. S. Crumley, and J. B. Loftin, Hillsborough, Tex. Cotton-press	616,341	Dec. 20	2091	487	85	1852
Massa, Gustav H., Corona, N. Y. Extension rule or measuring-stick	596,896	Jan. 4	759	179	82	149
Masson, John J., Newark, N. J. Lamp	609,689	Aug. 23	2843	665	84	1254
Masson, Jules, Asnières, and J. Loche-longue, Paris, assignors to J. Sloper, Bois-de-Columbes, and F. de Reiset, Paris, France. Railway-switch	601,352	Mar. 29	3090	698	82	1887
Mast, John M., Lancaster, Pa. Animal-trap	600,156	Mar. 8	1023	230	82	1434
Mast, Phineas P., assignor to P. P. Mast & Company, Springfield, Ohio. Grain-drill	615,727	Dec. 13	933	217	85	1608
Masters, Joseph W., et al. (See Smith, Swan, assignor.)						
Matchett, Richard, Melbourne, Victoria. Fluid-pressure regulator	601,878	Apr. 5	498	103	83	93
Mathehn, Frank J., New Haven, Conn. Gear-cutter	600,544	Mar. 15	1704	390	82	1583
Matheny, David D. (See Matheny, Elijah F., assignor.)						
Matheny, Elijah F., Milwaukee, Wis., assignor to D. D. Matheny, Cuba, Ill. Passenger-car appurtenance	603,855	May 10	1122	252	83	834
Mather, Allan G., and F. T. Snyder, Milwaukee, Wis. Stamp-mill	614,483	Nov. 22	2261	517 518	85	1103
Mather, Frank T., assignor of one-half to A. S. Tolsma, Detroit, Mich. Track-bond for electric railways	598,947	Feb. 15	1499	357	82	921
Mather, Gordon M., Canton, Ohio. Lubricating-axle	597,910	Jan. 25	2504	586	82	525
Mather, Jesse D., Clifton Springs, N. Y. Venting device for closed vessels	611,040	Sept. 20	1608	368	84	1786
Mather, Sidney, Bridgeport, Conn. Spool	604,540	May 24	2430	552	83	1137
Mather, William, Manchester, England. Clip for stentering-machines	597,996	Jan. 25	2658	621	82	566
Mather, William H., Cleveland, Ohio. Wheel-hub	613,701	Nov. 8	841	193	85	798
Matheson, James H., Middletown, Pa. Pipe-drawing apparatus	600,332	Mar. 8	1308	299	82	1489
Mathews, Albert W., Boston, Mass. Calendar and whist-counter	610,910	Sept. 20	1379	316	84	1743
Mathews, Elisha C., Jacksonville, Ill. Clamp for fence-machines	604,999	May 31	3206	738	83	1306
Mathews, Elisha C., Jacksonville, Ill. Fence-post	609,205	Aug. 16	1931	459	84	1057
Mathews, Elisha C., Jacksonville, Ill. Base for switch-stands, &c	610,684	Sept. 13	976	226	84	1646
Mathews, Elisha C., Jacksonville, Ill. Cutting and holding attachment for fence-machines	613,700	Nov. 8	839	192 193	85	797
Mathews, George C., Jacksonville, Fla. Bicycle	602,461	Apr. 19	1510	344 345	83	316
Mathews, Josiah D., and E. B. Horner, Martinsburg, W. Va. Nut-lock	612,046	Oct. 11	815	200	85	170
Mathews, Samuel R. C., Philadelphia, Pa. Fire-hydrant	607,413	July 12	1456	309	84	297
Mathewson, Herbert. (See Evans and Mathewson.)						
Mathewson, Jeremiah E., Sheffield, England. Sand-blast apparatus	610,189	Sept. 6	69	14	84	1453
Mathias, Charles J. (See Donne and Mathias.)						
Mathis, August. (See Mathis, Julien W. and A.)						
Mathis, Charles H., Bowie, Tex. Railway cattle-guard	614,018	Nov. 8	1387	318	85	904
Mathis, Charles M. (See Clements, James W., assignor.)						
Mathis, Julien W. and A., Chicago, Ill. Pneumatic-despatch apparatus	604,405	May 24	2165	486	83	1090
Mathisen, Christian, Fredericksburg, Texas. Tire-setting machine	611,864	Oct. 4	475	115	85	95
Mathson, Edward, Doon, Iowa. Gate latch	601,579	Mar. 29	3463	788	82	1962
Mathy, Joseph, Washington, D. C. Baking-pan	607,759	July 19	2242	474	84	470
Matignon, Laurent, La Garenne-Colombes, France. Means for raising sunken vessels	605,231	June 7	324	75	83	1412
Mattelin, Jonas G., Chicago, Ill. Collar-button	600,435	Mar. 8	1477	337	82	1520
Matter, James M., Halifax, Pa. Nut plate-lock	600,157	Mar. 8	1024	230	82	1434
Mattern, Frederick W., Los Angeles, Cal., assignor, by mesne assignments, to Dustless Roadbed Company, Camden, N. J. Dustless road, railway road-bed, &c	602,023	Apr. 5	750	161	83	142
Mattes, William F., Scranton, Pa. Steam-generator boiler	615,086	Nov. 29	3380	775	85	1330
Matteson, Rufus S., assignor of two-thirds to C. H. Field, Providence, R. I., and J. A. King, Seekonk, Mass. Textile-roller clearer	602,626	Apr. 19	1789	408	83	368
Matteson, Walter C., Stockton, Cal. Gang-plow	608,696	Aug. 9	948	218	84	862
Matthews, David H. (See Matthews, Watt D., assignor.)						
Matthews, George H. (See Gardella, John, assignor.)						
Matthews, John L., Baltimore, Md. Protective covering for ships' armor	604,940	May 31	3119	717	83	1289
Matthews, Luther, Paris, Tenn. Wire fence	606,872	July 5	441	94	84	87
Matthews, Luther, Paris, Tenn. Post-winder for wire fences	606,873	July 5	442	95	84	87
Matthews, Luther, Union City, Tenn. Fence-post	607,258	July 12	1174	251	84	242
Matthews, Marmaduke, assignor of one-half to A. and A. Jardine, Bracondale, Canada. Pedal for bicycles, &c	599,619	Feb. 22	2724	637	82	1178



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Matthews, Robert G., Barnesville, Ga. Thill-coupling	613,584	Nov. 1	652	151	85	739
Matthews, Robert L. (See Harper, Daniel W., assignor.)						
Matthews, Thomas. (See Eades and Matthews.)						
Matthews, Watt D., Pittsburg, assignor of one-half to D. H. Matthews, New Castle, Pa. Rolling-mill	602,864	Apr. 26	2208	500	83	464
Matthews & Willard Manufacturing Company. (See Miller, John C., assignor.)						
Matthias, Edward A., Liverpool, and W. H. Harrison, Manchester, England. Stopper for jars, bottles, cans, or other vessels	610,408	Sept. 6	513	112	84	1537
Matthies, Herman, Freeman, Kans. Plow-point	598,614	Feb. 8	931	223	82	798
Matthiesen, David W., Stockholm, Sweden. Skate	600,436	Mar. 8	1478	337	82	1520
Mattice, Charles H., assignor to Micrometer Balance Scale Company, Troy, N. Y. Scale	599,529	Feb. 22	2554	599 600	82	1144
Mattice, Charles H., assignor to Micrometer Balance Scale Company, Troy, N. Y. Balance	600,979	Mar. 22	2422	553 554	82	1732
Mattison, Charles D., Hasbrouck Heights, N. J., assignor to R. M. Donaldson, Greenwich, Conn. Paper-feeding machine	600,736	Mar. 15	2025	461 462 463	82	1644
Mattison, Germain. (See Tiefel, Leonard C., assignor.)						
Mattijetz, Andreas, Los Angeles, Cal. Feed-cutter	602,345	Apr. 12	1304	290 291	83	263
Mattson, Martin, Sellwood, Oreg. Painter's roof-bracket	612,256	Oct. 11	1185	284	85	240
Mattson, Martin, Sellwood, Oreg. Attachment for firearms	614,019	Nov. 8	1389	318	85	904
Mattson, Samuel, Brooklyn, N. Y. Air-lock for caissons	602,263	Apr. 12	1169	257	83	235
Mattson, William H. (See Chapman, Joseph L., assignor.)						
Mauer, Peter F., Staples, Minn. Paper-bag cabinet	602,032	Apr. 5	770	166	83	146
Mauger, Jacob, Massillon, Ohio. Well-drilling machine	599,911	Mar. 1	449	99 100	82	1298
Mauldin, Alfred W., Ozona, Tex. Pump	600,545	Mar. 15	1705	390 391	82	1584
Mauldin, Doctor C., Lone Oak, Tex. Railway-rail joint	600,793	Mar. 15	2115	483	82	1661
Maulick, William F., Columbia, Pa. Fastening device for awnings, &c	611,737	Oct. 4	260	62	85	53
Maulsby, Thomas A., Fairmont, W. Va. Reverse-feed for type-writers	616,549	Dec. 27	2492	577	85	1951
Maulthy, William H., Grand Valley, Pa. Penholder	611,178	Sept. 20	1864	430	84	1835
Maundrell, Frank. (See Morton-Brown, Ernest A., assignor.)						
Maurer, August, Brunswick, Germany. Drawing implement	614,175	Nov. 15	1658	381	85	976
Maurer, Charles A., Cedar Bluff, Iowa. Steam-engine	603,384	May 3	238	53, 54	83	646
Maurer, James H., assignor of two-thirds to W. E. Schmick, Hamburg, and G. H. Gerber, Pottsville, Pa. Packing for valve-stems	611,386	Sept. 27	2294	530	84	1934
Maurice, Louis, Chicago, Ill. Sled	599,946	Mar. 1	507	114	82	1309
Maurin, Celestin, Paris, France. Acetylene-gas generator	612,361	Oct. 11	1363	330 331	85	273
Maus, Markus F., assignor to L. Melcher and J. Mayer, New York, N. Y. Musical instrument	612,930	Oct. 25	2394	570	85	502
Mauser, Alfons, Stuttgart, Germany. Window-cleaner	597,067	Jan. 11	1068	251	82	224
Mauser, Alfons, Stuttgart, Germany. Transportable fence	615,728	Dec. 13	936	217	85	1609
Mauser, Alfons, Schramberg, Germany. Hat-brush	597,423	Jan. 18	1669	387	82	357
Mauser, Paul, Oberndorf, Germany. Metallic cartridge	607,868	July 26	2495	529	84	536
Maver, William, Jr. (See Patten and Maver.)						
Mavor & Coulson. (See Sayers, William B., assignor.)						
Maw, Son & Thompson, S. (See Cossor, Frank, assignor.)						
Mawhinney, Samuel. (See Tyler, Abel D., Jr., assignor.)						
Max, David L., Houston, Mo. Line-holder	615,729	Dec. 13	937	217	85	1609
Maxam, Frank H., Princeton, Ind. Necktie-holder	602,562	Apr. 19	1673	380	83	347
Maxey, John V., Mount Vernon, Ill. Road-grading machine	610,550	Sept. 13	764	174	84	1601
Maxfield, Fred E., Holyoke, and E. W. Lovejoy, Lowell, Mass. Bed-plate for beating-engines	597,885	Jan. 25	2461	574	82	528
Maxfield, Schuyler, Gloversville, N. Y. Match-safe	599,398	Feb. 22	2310	545	82	1098
Maxham, Lowell M., Boston, Mass. Third rail	600,009	Mar. 1	601	138	82	1327
Maxham, Lowell M., Boston, Mass. Coin-operated vending-machine	602,543	Apr. 19	1644	374	83	341
Maxham, Lowell M., Boston, Mass. Trolley for third rails	607,065	July 12	801	175	84	174
Maxim, Hiram P., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Governor for explosive-engines	606,425	June 28	2604	600	83	1905
Maxon, Thomas, Dayton, Ohio. Extension car-step	612,429	Oct. 18	1480	357	85	309
Maxon, Thomas, Dayton, Ohio, assignor of one-half to E. Ensign, Huntington, W. Va. Extension-step for cars	606,932	July 5	521	114	84	103
Maxwell, Anderson, assignor to Watt Mining Car Wheel Company, Barnesville, Ohio. Mining-car	616,793	Dec. 27	2944	686	85	2039
Maxwell, Arthur, Ludlow Falls, Ohio. Dump-cart	602,225	Apr. 12	1110	244	83	223
Maxwell, Charles G., West Winsted, Conn. Attachment for trunks or boxes	603,698	May 10	831	184	83	778
Maxwell, Fletcher E., Garrett, Tex. Changeable gear for bicycles	615,033	Nov. 29	3283	755	85	1313
Maxwell, James M., Pittsburg, Pa. Rotary engine	612,669	Oct. 18	1916	453 454	85	391
Maxwell, Samuel E., assignor to W. H. Smith, New Castle, Pa. Gas-engine	601,210	Mar. 22	2810	642 643	82	1806
Maxwell, William T. (See Pitman and Maxwell.)						
May, August G., St. Charles, Mo. Thill coupling-bolt	603,196	Apr. 26	2777	632	83	572
May, Charles. (See Newman and Marks, assignors.)						
May, Clarence M., et al. (See Patton, Oliver C., assignor.)						
May, Hermann, Jr., Meiningen, Germany. Frame for ornamental hairwork	606,728	July 5	164	36	84	34
May, John E., Rodgers, Tex. Fireplace	611,179	Sept. 20	1866	430	84	1835
May, Joseph B., assignor of one-fourth to G. P. Ross, Lexington, Ky. Mail-bag lock	602,764	Apr. 19	2021	458	83	413
May, Leopold, Vienna, Austria-Hungary. Apparatus for molding masse-cuite	616,679	Dec. 27	2743	637	85	1998
May, Oliver T., Geneva, N. Y. Trial-frame for oculists	610,817	Sept. 13	1221	281	84	1695
May, Rudolph A., Akron, Ohio. Grate	610,551	Sept. 13	766	174 175	84	1602
May, Rudolph A., Akron, Ohio. Connecting-band for furnaces	614,120	Nov. 15	1571	359	85	960
May, William D., Scranton, Pa. Fluid-pump	613,381	Nov. 1	296	68	85	674
May, William E., assignor to Ellis May Vacuum Steel Syndicate, Limited, London, England. Apparatus for casting metals	596,897	Jan. 4	760	179 180	82	149
May, William E., assignor to Ellis May Vacuum Steel Syndicate, Limited, London, England. Vacuum-producing apparatus	611,455	Sept. 27	2417	554 555	84	1957
May, William J., Tillamook, Oreg. Elevated road and bicycle for same	600,371	Mar. 8	1369	313	82	1500
Maybaum, Levy, Newark, N. J. Calculating device	605,000	May 31	3207	738	83	1307
Maybury, William C. (See Ford, Henry, assignor.)						
Maycock, William A., assignor of one-half to J. Harty, New Haven, Conn. Pole or thill support for vehicles	607,804	July 19	2350	496	84	491



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Mayer, Charles P., and J. H. Pomeroy, New Haven, Conn. Automatic gas-vending apparatus	604,406	May 24	2166	487	83	1090
Mayer, Charles P., and J. H. Pomeroy, New Haven, Conn. Guard for coin-controlled apparatus	604,407	May 24	2176	488	83	1092
Mayer, Daniel, assignor of one-half to W. Roessler, Mancos, Colo. Steam-cooker	599,512	Feb. 22	2526	594	82	1139
Mayer, Frank H., Denver, Colo. Vehicle-brake	605,735	June 14	1230	284	83	1607
Mayer, Frank T. (See Pfeffer and Mayer.)						
Mayer, Jacob, <i>et al.</i> (See Maus, Markus F., assignor.)						
Mayer, Murray C., assignor to Gage-Downs Company, Chicago, Ill. Corset	606,169	June 21	2098	482	83	1786
Mayer, Robert S., Cincinnati, Ohio. Apparatus for purifying water	600,206	Mar. 8	1099	250 251	82	1449
Mayer, Robert S., Cincinnati, Ohio. Apparatus for purifying water	616,243	Dec. 20	1919	444	85	1818
Mayer, William, Jarrow-on-Tyne, England. Ingot-mold	607,869	July 26	2496	529	84	536
Mayerson, Abi, Philadelphia, Pa. Handle-bar and luggage-carrier	609,690	Aug. 23	2845	665 666	84	1254
Mayfield, Warren T., <i>et al.</i> (See Manire and Hood, assignors.)						
Mayfield, William D., Fayetteville, Ark. Egg or packing case	600,546	Mar. 15	1707	391	82	1584
Mayhew, Lewis, New Whatcom, Wash. Device for cutting sheet metal	614,252	Nov. 15	1826	422	85	1007
Maynadier, James E., trustee. (See Fullerton, George A., assignor.)						
Maynard, Charles A., Springfield, Mass. Rubber-tired wheel	602,346	Apr. 12	1307	291	83	263
Maynard, Charles A., Springfield, Mass. Pneumatic tire	604,541	May 24	2430	552	83	1137
Maynard, William C., Canton, Ohio. Embroidery-hoop	610,658	Sept. 13	937	217	84	1638
Mayo, Benjamin F., Salem, assignor to J. W. Brooks, trustee, Petersham, Mass. Heel-trimming machine	609,518	Aug. 23	2517	589	84	1191
Mayo, Benjamin F., Salem, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-assorting mechanism	607,939	July 26	2619	556	84	560
Mayo, Benjamin F., Salem, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-assorting mechanism	607,940	July 26	2621	556	84	560
Mayo, Benjamin F., Salem, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-assorting mechanism	607,941	July 26	2623	556	84	561
Mayo, Benjamin F., Salem, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-assorting mechanism	607,942	July 26	2624	557	84	561
Mayo, Benjamin F., Salem, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Trimming-machine for boot or shoe work	609,519	Aug. 23	2521	590	84	1192
Mayo, Joseph B., <i>et al.</i> (See Halligan, Samuel, assignor.)						
Mayo, Junius E., Belvidere, Ill. Hanger for electric lamps	614,484	Nov. 22	2265	518	85	1104
Mayo Knitting Machine and Needle Company (See Ames, Arthur N., assignor.)						
Mayo, S. P., <i>et al.</i> (See Hysore, Alphenas V., assignor.)						
Mayo, Walter E., Chicago, Ill. Supplemental seat for bicycles	604,699	May 24	2711	619	83	1191
Mays, James M., assignor of one-half to E. E. Conant, Charleston, W. Va. Chain-propeller	599,451	Feb. 22	2413	567	82	1118
Mazurier, Jules. (See Roser and Mazurier.)						
Mazzanovich, Anton, New York, N. Y. Car-fender	598,637	Feb. 8	980	236	82	806
Mazzanovich, Anton, New York, N. Y. Bottle	604,120	May 17	1641	368	83	968
Mazzanovich, Anton, New York, N. Y. Car-fender	609,206	Aug. 16	1932	459	84	1057
Mazzanovich, Anton, New York, N. Y. Bottle-cap	613,288	Nov. 1	118	27	85	639
Mazzanovich, Anton, assignor of one-half to A. Tucman, New York, N. Y. Powder-distributer	600,547	Mar. 15	1709	391	82	1585
Mazzei, Frank. (See Beaty and Mazzei.)						
McAdams, Frank A. (See Soderquist and McAdams.)						
McAdams, William A., New York, N. Y. Aluminium alloy	611,016	Sept. 20	1576		84	1780
McAdams, William A., New York, N. Y. Sash-fastener	612,170	Oct. 11	1026	247	85	211
McAfee, Frank F., New York, N. Y. Bedstead	616,131	Dec. 20	1685	392	85	1771
McAllister, Edwin P., Clifton Heights, Pa. Puncture-repair needle	606,570	June 28	2855	658	83	1956
McAllister, James, Owen Sound, Canada. Gangway-door for box-cars or steamboats	608,209	Aug. 2	74	20	84	669
McAllister, James, Glasgow, Scotland. Washing-machine	608,788	Aug. 9	1100	254 255	84	889
McAlpine, Adam H., <i>et al.</i> (See Koehne, Ira C., assignor.)						
McAlpine, John, assignor of two-thirds to E. S. Torrey and T. S. Allden, London, England. Ball-bearing	610,970	Sept. 20	1482	388	84	1762
McAlpine, William W., Boligee, assignor of one-half to A. C. Hill, Eutaw, Ala. Jack-screw	616,683	Dec. 27	2751	638	85	2000
McAneny, Michael, assignor to Columbine Cycle Company, Denver, Colo. Bicycle	600,839	Mar. 15	2190	500	82	1675
McAnlis, J. D. (See Curl, Charles A., assignor.)						
McAnulty, John F., and P. Van den Bergh, Philadelphia, Pa. Veterinary tool	609,587	Aug. 23	2641	618	84	1214
McArdle, James J., Pawtucket, R. I. Nut-lock	615,877	Dec. 13	1177	275	85	1655
McArthur, Andrew J., Gainesville, Fla. Refrigerator-car	596,820	Jan. 4	643	147 148	82	124
McArthur, Andrew J., Gainesville, Fla. Refrigerator-door	608,893	Aug. 9	1316	307	84	929
McAulay, Norman, Hill City, S. D. Horse-detacher	615,091	Nov. 29	3391	776	85	1332
McAulay, Norman, assignor of one-half to C. von Woehrmann, Hill City, S. D. Buggy-bow rest	603,962	May 10	1296	296	83	868
McAusland, William, assignor to Reed & Barton Corporation, Taunton, Mass. Metallic spun article	599,286	Feb. 15	2061	490	82	1027
McAusland, William, assignor to Reed & Barton Corporation, Taunton, Mass. Insulating handle connection	605,448	June 7	735	166	83	1494
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Supervisory signal for telephone-switchboards	596,609	Jan. 4	267	59	82	53
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Signaling system for telephone trunk-lines	596,610	Jan. 4	269	59	82	54
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Polarized signal-bell	598,269	Feb. 1	354	82	82	668
McBeth, Joseph C., Denver, Colo. Surgeon's splint	610,866	Sept. 13	1302	299	84	1713
McBrearty, Dennis, <i>et al.</i> (See Little, Alexander F., assignor.)						
McBrearty, Francis, <i>et al.</i> (See Little, Alexander F., assignor.)						
McBride, Daniel B., Salt Lake City, Utah. Step for poles	614,177	Nov. 15	1661	382	85	977
McBride, Thomas F., Clinton, N. Y. Step-ladder	598,430	Feb. 1	628	154 155	82	722
McBride, Thomas F., Clinton, N. Y. Shipping-crate	598,431	Feb. 1	629	155	82	723
McBurney, Walter C., and W. M. Robertson, Montclair, N. J. Bicycle-stand	602,665	Apr. 19	1870	425	83	384
McCabe, Thomas W. R., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Center-arbor for clocks	598,055	Jan. 25	2750	641	82	584
McCabe, William. (See Norman, Addison, assignor.)						
McCafferty, David, Montgomery City, Mo. Flood-gate	616,248	Dec. 20	1927	446	85	1820
McCafferty, Harry C., Montclair, N. J. Map-holder	605,969	June 21	1720	395	83	1717
McCafferty, John, assignor of one-half to J. J. McCafferty, Wall, Pa. Non-refillable bottle	606,293	June 28	2344	543	83	1855



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McCafferty, John J. (See McCafferty, John, assignor.)						
McCaffery, William, Tyler, assignor of one-half to J. Cassady, Cheney, Wash. Railway-switch	606,730	July 5	166	37	84	34
McCaffrey, Peter F. (See McCaffrey, Thomas E. and P. F.)						
McCaffrey, Thomas E. and P. F., Allegheny, Pa. Gas-burning apparatus	598,737	Feb. 8	1150	276	82	838
McCain, John A., assignor of one-half to W. J. Houston, Decatur, Ga. Rail-joint and tie-plate	603,610	May 3	683	152	83	733
McCalib, David C., Kemp, Ind. Ter. Bookbinder	598,738	Feb. 8	1152	277	82	838
McCall, Charles S. (See Brasington, John M., assignor.)						
McCall, Orson G. (See McGowan, John C., assignor.)						
McCall Sliding Hinge-Window Company. (See McCall, William, assignor.)						
McCall, William, assignor to McCall Sliding Hinge-Window Company, San Francisco, Cal. Slidable hinged window-sash	614,211	Nov. 15	1731	397	85	991
McCall, William, assignor to McCall Sliding Hinge-Window Company, San Francisco, Cal. Slidable hinged window	614,212	Nov. 15	1733	397 398	85	991
McCallum, Daniel W., St. Louis, Mo., assignor of two-thirds to W. E. Kuhlhoff, Fort Worth, and J. L. Finley, Denison, Tex. Stationary boiler	596,785	Jan. 4	586	136	82	112
McCallum, John, Chippewa Falls, Wis. Grass-clipping device	603,919	May 10	1232	279 280	83	855
McCallum, John, Chippewa Falls, Wis. Combined mowing and raking machine	607,698	July 19	2149	452	84	452
McCallum, Lee, Brooklyn, N. Y. Metal-surface decoration	598,270	Feb. 1	355	82	82	668
McCallum, William A., Cincinnati, Ohio. Trolley-wire hanger	602,463	Apr. 19	1514	345	83	317
McCallum, William A., Avondale, Ohio. Mechanism for supporting electric-arc lamps	613,293	Nov. 1	125	29	85	641
McCallum, William A., assignor to C. Andrew, Cincinnati, Ohio. Machine for jointing tubes	603,337	May 3	165	38	83	633
McCallum, William A. F., assignor to Vacuum Ale Lift Company, Limited, Philadelphia, Pa. Vacuum fluid-elevator	612,211	Oct. 11	1090	262	85	223
McCallum, William A. F., assignor of one-half to J. A. Griffiths, Philadelphia, Pa. Vacuum lifting apparatus for malt or other liquors	616,199	Dec. 20	1823	421 422	85	1799
McCamey, Charles M., Denver, assignor to J. E. P. Meyer and L. D. Gray, Golden, Colo. Furnace-cleaner	613,590	Nov. 1	665	153	85	743
McCann, Bernard, assignor of one-half to E. and G. Schuler, Wahpeton, N. D. Harness-snap	600,441	Mar. 8	1486	339	82	1522
McCann Megagraph Company. (See Heath and Severy, assignors.)						
McCann, Michael. (See Harris, Cupples, and McCann.)						
McCanna, Benjamin T. (See McCanna, John F. and B. T.)						
McCanna, John E., Bound Brook, N. J. Molding-machine	598,252	Feb. 1	318	73	82	662
McCanna, John F. and B. T., Chicago, Ill. Lubricating-pump	604,072	May 17	1553	348	83	951
McCarren, Helena C., Jersey City, N. J. Hat-pin	605,646	June 14	1081	249	83	1579
McCarroll, Charles T., Ottumwa, Iowa. Sheet-metal stove	597,427	Jan. 18	1677	389	82	359
McCarroll, Samuel H., Providence, R. I. Valve	604,835	May 31	2938	672	83	1254
McCarron, Charles F., and T. Montgomery, St. Paul, Minn. Ballot-box	613,294	Nov. 1	128	30	85	642
McCarthy, Daniel J., Ansonia, Conn. Parcel-carrier	606,571	June 28	2857	658 659	83	1956
McCarthy, Jerry, <i>et al.</i> (See Manire and Hood, assignors.)						
McCarthy, John, Hermosa, S. D. Automatic lamp-extinguisher	598,951	Feb. 15	1509	359	82	923
McCarthy, Joseph, assignor of three-fourths to L. H. McCarthy, Franklin, and C. B. Oglesby, Middletown, Ohio. Watchman's time-detector	610,145	Aug. 30	3609	838	84	1419
McCarthy, Joseph A. (See O'Hanlon, Daniel P., assignor.)						
McCarthy, Leo H., <i>et al.</i> (See McCarthy, Joseph, assignor.)						
McCarthy, Louis, Boston, Mass. Strain-insulator	605,741	June 14	1240	287	83	1609
McCarthy, Thomas J., Orange Valley, N. J. Hat-printing machine	604,778	May 31	2851	652	83	1237
McCartney, James, Oakland, Cal. Water-heater and steam-generator	610,554	Sept. 13	772	175	84	1603
McCartney, James S. (See Conner, John D., assignor.)						
McCarty, William N., Blanket, Tex. Combination-tool	605,792	June 14	1354	310	83	1630
McCaskey, Alfred S., La Grange, assignor to Universal Calculator Company, Chicago, Ill. Calculating-machine	616,132	Dec. 20	1686	392 393 394 395	85	1771
McCaskey, Franklin O., Ogden, Iowa. Picture-frame	612,747	Oct. 18	2050	486	85	416
McCaughy, Ralph H., Campbell, Cal. Car-coupling	602,605	Apr. 19	1749	399	83	361
McCauley, John H., assignor of one-half to J. Lowenstein, Wichita Falls, Tex. Placket-fastener	599,672	Feb. 22	2834	658	82	1200
McCauley, William J., Providence, R. I. Game apparatus	599,063	Feb. 15	1697	402	82	960
McCausland, Alexander G., assignor to A. Ames, Brantford, Canada. Candy-machine	616,723	Dec. 27	2334	656	85	2017
McCausland, William I., Indianapolis, Ind. Dish-cleaner	598,432	Feb. 1	630	155	82	723
McCausland, William J., Camden, N. J. Apparatus for winding cops or bobbins of yarn	613,384	Nov. 1	303	70	85	675
McCaw, John. (See Coulson and McCaw.)						
McChesney, William W., assignor of one-half to J. H. Mackintosh, Asbury Park, N. J. Pipe-wrench	614,255	Nov. 15	1832	424	85	1008
McClafferty, Patrick, assignor of one-half to T. J. Murphy, Bordentown, N. J. Clothes-line prop	609,455	Aug. 23	2406	564	84	1171
McClain, Edward L., Greenfield, Ohio. Harness-pad	604,567	May 24	2484	565	83	1148
McClair, Charles A., assignor of two-thirds to J. McGuire, North Brookfield, G. Clish, D. McDonald, and S. R. Tupper, Truro, Canada. Stamp-tappet	599,400	Feb. 22	2313	546	82	1098
McClarran, Robert C., Wooster, Ohio. Potato-bug catcher	598,532	Feb. 8	796	191	82	771
McClatchey, Augustus F., Aurora, and C. L. Krum, Chicago, Ill. Separating apparatus	602,515	Apr. 19	1595	365 366	83	333
McClave, William, Scranton, Pa. Grate-bar and grate for boiler or other furnaces	607,263	July 12	1184	253 254	84	244
McClave, William, Scranton, Pa. Grate	607,784	July 19	2290	483 484	84	479
McClean, Samuel N., Washington, Iowa. Magazine-firearm	601,838	Apr. 5	406	85, 86	83	76
McClean, Samuel N., Washington, Iowa. Magazine bolt-gun	601,839	Apr. 5	413	86	83	77
McClean, Samuel N., Washington, Iowa. Magazine-firearm	601,840	Apr. 5	419	87	83	79
McClean, Samuel N., Washington, Iowa. Magazine bolt-gun	601,841	Apr. 5	424	87	83	80
McClean, Samuel N., Washington, Iowa. Magazine bolt-gun	601,842	Apr. 5	430	88	83	81
McClean, Samuel N., Washington, Iowa. Magazine-firearm	601,843	Apr. 5	434	88, 89	83	81
McClean, Samuel N., Washington, Iowa. Magazine-firearm	601,844	Apr. 5	440	89	83	82
McCleary, Wallin & Crouse. (See McCleary, William, assignor.)						
McCleary, William, assignor to McCleary, Wallin & Crouse, Amsterdam, N. Y. Chenille-cutting machine	605,118	June 7	83	23	83	1368
McClees, Caroline A. (See Soper, Frank, assignor.)						
McClellan, Benjamin S., New Orleans, La. Hose-hanger	596,821	Jan. 4	645	148	82	125
McClellan, George H., <i>et al.</i> (See McClellan, Jackson, assignor.)						
McClellan, Jackson, Brooklyn, N. Y., assignor to himself, G. H. McClellan, Arlington, N. J., G. H. McKibbin, and B. Everett, New York, N. Y. Bookbinding-machine	603,406	May 3	280	62, 63	83	654



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McClellan, Russell R., Pittsburg, Pa. Curtain-fixtured	596,904	Jan. 4	776	183	82	151
McClelland, Mark R., Zanesville, Ohio. Harrow	605,506	June 14	819	190	83	1531
McClelland, Robert E., Williamsville, Ill. Farm-gate	606,177	June 21	2109	485	83	1788
McClintock, Frank. (See Eastwood, Bibb, and McClintock.)						
McClintock, Frank, Grand Junction, Colo., assignor to Empire Type Setting Machine Company, of West Virginia. Machine for justifying type	608,002	July 26	2728	583 584	84	580
McCloskey-Playter, Mary E., New York, N. Y. Corset-steel	601,734	Apr. 5	218	43	83	42
McClung, James S., Pueblo, Colo. School-room directory and bulletin	598,384	Feb. 1	536	131	82	704
McClure, George W., Pittsburg, Pa. Valve for regenerative furnaces	610,076	Aug. 30	3509	813	84	1398
McClure, John, and A. Bings, Philadelphia, Pa. Game apparatus	600,738	Mar. 15	2032	464	82	1646
McClure, Silas. (See Terrell and McClure.)						
McClurg, James A., Denver, Colo. Sample grinding and pulverizing apparatus	608,405	May 3	278	62	83	653
McCoart, James A. (See Newhall, Charles H., assignor.)						
McColl, Francis P., Brooklyn, N. Y. Mold or die for plastic substances	604,590	May 24	2517	572 573	83	1154
McCollom, George W., Council Bluffs, Iowa. Adjustable nursing-bottle holder	601,732	Apr. 5	213	42	83	41
McCollum, Clarence E. (See Baxter, John G., assignor.)						
McCollum, David A., Eagleville, Mo. Car-coupling	613,071	Oct. 25	2619	620	85	548
McCollum, Fenelon, Mansfield, Conn. Pipe-organ foot	608,704	Aug. 9	961	221	84	865
McCollum, Frank G., Cambridge, Mass. Cuspidor for dental chairs	603,280	May 3	64	16	83	613
McCollum, James H. K., assignor of thirteen-twentieths to R. Elmsley and W. H. Brouse, Toronto, Canada. Automatic air-pump for pneumatic tires	598,108	Feb. 1	67	16	82	615
McCollum, Marquis D. L., Williamsport, Pa. Blackboard	616,799	Dec. 27	2952	688	85	2041
McCollum, William F. (See Beckwith and McCollum.)						
McComish, John J., New York, N. Y. Safety-bottle	603,114	Apr. 26	2644	600	83	547
McComish, John J., New York, N. Y. Safety-bottle	609,115	Aug. 16	1783	424	84	1030
McConaughay, William M., Fresno, Cal. Raisin-seeder	614,178	Nov. 15	1662	382	85	977
McConnell, Charles, McDermitt, Nev. Hay-loading net	597,734	Jan. 25	2199	513	82	478
McConnell, Edwin P., Cadiz, Ohio. Clothes hanger or press	612,748	Oct. 18	2051	486 487	85	417
McConnell, Jacob Y. (See Vauclair and McConnell.)						
McConnell, James R. (See Shambaugh and McConnell.)						
McConnell, Thomas, et al. (See Hope, James R., assignor.)						
McConway & Torley Company. (See Buhoup, Harry C., assignor.)						
McConway & Torley Company. (See Kelso, William, assignor.)						
McCool, William A., Beaver Falls, Pa. Apparatus for drawing metal	600,012	Mar. 1	606	140	82	1328
McCool, William A., Beaver Falls, Pa. Tube-drawing machine	600,013	Mar. 1	611	140 141	82	1329
McCool, William A., Beaver Falls, Pa. Metal-drawing machine	600,014	Mar. 1	616	141	82	1330
McCool, William A., Beaver Falls, Pa. Abrading mechanism	602,349	Apr. 12	1312	292	83	264
McCool, William A., Beaver Falls, Pa. Manufacturing cold-drawn steel tubing	602,350	Apr. 12	1315	293	83	265
McCool, William A., Beaver Falls, Pa. Manufacturing drawn tubing	602,416	Apr. 12	1429		83	288
McCool, William A., Beaver Falls, Pa. Manufacturing cold-drawn metallic articles	602,417	Apr. 12	1430	323	83	288
McCormac, Henry E., Omaha, Nebr. Horse-check	596,529	Jan. 4	120	27	82	25
McCormack, Charles H., assignor of one-half to C. H. Lee, Towners, N. Y. Carrier for umbrellas or the like	608,472	Aug. 2	543	121	84	763
McCormack, Frank. (See Page, Arthur, assignor.)						
McCormack, Levi. (See Robinson, Stephen A., assignor.)						
McCormick Harvesting Machine Company. (See Burson, William W., assignor.)						
McCormick Harvesting Machine Company. (See Coler, Peter P., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, Henry E., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, John W., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore and Johnston, assignors.)						
McCormick Harvesting Machine Company. (See Withaegeer, Charles H., assignor.)						
McCormick, James. (See Reid, Randolph H., assignor.)						
McCormick, John, Wilmerding, Pa. Gage	612,749	Oct. 18	2052	487	85	417
McCormick, John H., Columbus, Ohio. Cash-register	610,492	Sept. 6	663	148 149	84	1566
McCormick, John H., assignor, by mesne assignments, to Hallwood Cash Register Company, Columbus, Ohio. Cash register and indicator	610,365	Sept. 6	428	93, 94	84	1521
McCormick, John H., Columbus, Ohio, assignor to Hallwood Cash Register Company, of Ohio. Cash register and indicator	610,366	Sept. 6	436	94 95 96	84	1523
McCormick, John H., assignor to National Cash Register Company, Dayton, Ohio. Cash-register	610,945	Sept. 20	1436	330	84	1754
McCormick, John T., San Francisco, Cal. Fireproof wall or partition for buildings	613,462	Nov. 1	446	101	85	701
McCormick, Thomas, Mount Pleasant, Pa. Combination curtain and window-shade holder	602,091	Apr. 12	868	189	83	176
McCoskry, Julius. (See Acker, McCoskry, and Molis.)						
McCoy, Charles N., Dehaven, Pa. Vehicle-wheel	608,210	Aug. 2	75	20	84	670
McCoy, Elijah, assignor to Detroit Sheet Metal and Brass Works, Detroit, Mich. Lubricator	610,634	Sept. 13	901	207	84	1631
McCoy, Elijah, assignor to Detroit Sheet Metal and Brass Works, Detroit, Mich. Lubricator	611,759	Oct. 4	287	68, 69	85	59
McCoy, Elijah, assignor to Detroit Sheet Metal and Brass Works, Detroit, Mich. Oil-cup	614,307	Nov. 15	1911	441	85	1023
McCoy, Henry L. (See Randolph and McCoy.)						
McCoy, Hugh A., Cambridge, Mass. Electric-wire-holding appliance	599,346	Feb. 22	2196	521	82	1074
McCoy, John, New Orleans, La. Hat-pin	611,502	Sept. 27	2503	577	84	1974
McCoy, John, assignor of one-half to W. F. B. Stewart, York, Pa. Machine for blending colors on wall-paper	596,905	Jan. 4	777	183 184	82	152
McCoy, Joseph, Independence, Mo. Cistern cut-off	603,338	May 3	167	38, 39	83	634
McCoy, Mamie E., Wichita, Kans. Bag-fastener	599,858	Mar. 1	344	78	82	1278
McCoy, Taylor. (See Dean and McCoy.)						
McCoy, Thomas F., New York, N. Y. Knife for paper-cutting machines	596,530	Jan. 4	121	27	82	25
McCracken, Ralph T. (See Tenny and McCracken.)						
McCready, Charles H., Neodesha, Kans. Machine for screwing up or unscrewing pipes, &c	614,333	Nov. 15	1970	455	85	1035
McCready, Edward W., Oak Park, Ill. Bicycle handle-bar	601,813	Apr. 5	365	75	83	69
McCreary, Edward, Cohoes, N. Y. Napping-machine	606,731	July 5	167	37, 38	84	34
McCreary, Joseph, Toledo, Ohio. Air cleaning and cooling device	599,080	Feb. 15	1719	408	82	964
McCreary, Joseph, Toledo, Ohio. Ventilating system	605,806	June 14	1376	315 316	83	1634
McCreary, Joseph, Toledo, Ohio. Foul-air escape or vent	607,264	July 12	1187	254	84	245
McCreary, King. (See McCreary, Vance and K.)						
McCreary, Vance and K., Toledo, Ohio. Hanger-bolt	613,933	Nov. 8	1251	284	85	875
McCrosky, William B., Eureka Springs, Ark. Closure for jars	597,687	Jan. 18	2117	495	82	445



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McCrudden, James, Pontiac, Mich. Spring-hanger for vehicle-bodies	605,296	June 7	458	102	83	1439
McCrum, Robert G., Armagh, Ireland. Apparatus for preparing cards for use in jac-						
quard-machines	608,473	Aug. 2	544	122	84	763
McCue, Charles J., La Veta, Colo. Nut-lock	608,534	May 3	546	120	83	706
McCue, Thomas W., Akron, Ohio. Antiseptic surgical dressing	606,019	June 21	1816		83	1733
McCulloch, James M., Garston, England. Steam-boiler	601,080	Mar. 22	2589	590	82	1764
McCullough, Frank, Mooreville, Tex. Cotton-chopper	603,963	May 10	1297	296	83	869
McCullough, Frank B., and E. M. Parrott, Indianapolis, Ind. Furnace	602,464	Apr. 19	1515	345	83	317
McCullough, James A. (See Sturgis, Samuel, assignor.)						
McCully, John J., Clifton Hill, Mo. Vehicle-wheel	613,463	Nov. 1	447	102	85	701
McCune, William A., Sterling, Ill. Acetylene-gas generator	610,306	Sept. 6	318	68	84	1502
McCurdy, Charles, Richmond, Va. Combination-lock for umbrella-tips	606,426	June 28	2606	601	83	1906
McCurdy, Warren H., Boston, Mass. Ship's log and registering mechanism	610,077	Aug. 30	3510	814	84	1398
McCutcheon, John B., Battle Creek, Mich. Attachment for pneumatic stackers	608,990	Aug. 9	1511	357	84	966
McCutcheon, John B., assignor to Advance Thresher Company, Battle Creek, Mich.						
Grain-separator	607,699	July 10	2152	453	84	452
McCutcheon, John B., Battle Creek, Mich., assignor to Indiana Manufacturing Company,						
Indianapolis, Ind. Pneumatic straw-stacker	609,623	Aug. 23	2728	635	84	1231
McDaniel, Rezin E., Vinita, Mo. Hay-stacker	616,581	Dec. 27	2540	588	85	1959
McDaniel, Robert J., and S. V. Graves, McFall, Mo. Spring draft attachment	616,684	Dec. 27	2753	639	85	2000
McDaniel, William D., assignor of one-half to L. S. Green, Philadelphia, Pa. Toe-clip	602,516	Apr. 19	1600	366	83	334
McDermid, Duncan H. (See Keese, Frank P., assignor.)						
McDermid, Hugh, assignor to Vulcan Iron Works, Chicago, Ill. Cap for piles	613,385	Nov. 1	305	71	85	675
McDermott, Thomas B., Portland, Oreg. Bicycle propelling mechanism	603,281	May 3	64	16	83	613
McDonald, Arthur J., Kansas City, Mo. Dental engine	604,836	May 31	2940	672	83	1254
McDonald, Arthur J., Kansas City, Mo. Dental engine	604,837	May 31	2942	672 673	83	1254
McDonald Brothers. (See Applegate, Clarence, assignor.)						
McDonald, Charles M., Italy, N. Y. Bicycle-canopy	601,977	Apr. 5	685	145	83	130
McDonald, Duncan, et al. (See McClair, Charles A., assignor.)						
McDonald, Duncan, et al. (See Smallwood, Robert, assignor.)						
McDonald, Frank, assignor of one-third to C. J. Herrett, Medford, Mass. Boot or shoe	598,385	Feb. 1	537	131	82	704
McDonald, Frank, assignor of one-third to C. J. Herrett, Medford, Mass. Boot or shoe	607,188	July 12	1038	224	84	217
McDonald, Fred C., Chicago, Ill. Lock for bicycles	601,856	Apr. 5	465	94	83	86
McDonald, Harry C., The Jumpers' Gold Mine, near Johannesburg, South African Re-						
public. Apparatus for forging and sharpening rock-drills, &c.	599,453	Feb. 22	2416	567 568	82	1118
McDonald, Henry T. (See Brownell, Alexander C., assignor.)						
McDonald, Hugh, Williamsport, Pa. Bicycle	613,885	Nov. 8	1182	270	85	862
McDonald, Hugh, Williamsport, Pa. Bicycle	613,886	Nov. 8	1184	270	85	863
McDonald, James, and W. H. Klock, Gloversville, N. Y. Smoke-consumer	616,485	Dec. 27	2375	551	85	1930
McDonald, James E., Evansville, Ind. Pipe-wrench	606,572	June 28	2858	659	83	1956
McDonald, John H. (See Swyny and McDonald.)						
McDonald, John I., St. Joseph, Mo. Electric timing race apparatus	613,705	Nov. 8	854	197	85	800
McDonald, John W., Lerna, Ill. Clothes-rack	609,116	Aug. 16	1784	424	84	1030
McDonald, Joseph H., New York, N. Y. Non-refillable bottle	604,497	May 24	2353	534	83	1123
McDonald, Joseph H., New York, N. Y. Non-refillable bottle	615,878	Dec. 13	1177	276	85	1656
McDonald, Robert A., Aspinwall, assignor of two-thirds to D. W. Dunlevy and R. Miller,						
Jr., Pittsburg, Pa. Casting ingots	609,693	Aug. 23	2849	666	84	1255
McDonald, Rufus K., Newville, Ind. Book-holder and leaf-turner	615,879	Dec. 13	1178	276	85	1656
McDonald, Samuel J., Gallatin, Mo. Neck-yoke	608,474	Aug. 2	546	122	84	763
McDonald, William H. (See Wright and Hunt, assignors.)						
McDonald, William W., et al. (See Gates, Caleb C., assignor.)						
McDonland, George T. (See Stephenson, John, assignor.)						
McDonell, Edward L., Muskegon, Mich. Refrigerator-car	600,840	Mar. 15	2192	500	82	1676
McDonnell, James L. (See Barron, Reid, and McDonnell.)						
McDonnell, James L. (See Reid and McDonnell.)						
McDonough, Dennison, Eau Claire, Wis. Ironing-board	602,563	Apr. 19	1674	381	83	347
McDonough, Frank, Eau Claire, Wis. Feed mechanism for band resawing-machines	608,894	Aug. 9	1317	307	84	929
McDonough, James, Montclair, N. J. Horseshoe and removable calk therefor	606,875	July 5	445	95	84	88
McDonough, James W., Chicago, Ill., assignor, by mesne assignments, to International						
Color Photo Company, Jersey City, N. J. Producing photographs in color	611,457	Sept. 27	2422	556	84	1958
McDonough, John J. (See Gallagher, Henry, assignor.)						
McDonough, John W. (See McDonough, William and J. W.)						
McDonough, Patrick J., and T. E. Shelly, Bellaire, Ohio. Machine for finishing glass-						
ware	601,898	Apr. 5	531	110	83	100
McDonough, William and J. W., Pine Wood, Tenn. Animal-trap	599,006	Feb. 15	1598	379	82	940
McDougall, Alexander, Duluth, Minn. Apparatus for concentrating gold-bearing sand	604,627	May 24	2576	587 588	83	1166
McDougall, Alexander, Duluth, Minn. Dredging apparatus	604,628	May 24	2579	588	83	1166
McDougall, Isaac S. (See Collier, Arthur, assignor.)						
McDougall, Emma M., Kansas City, Mo. Tea or coffee pot	612,750	Oct. 18	2053	487	85	417
McDougall, John W., Napier, New Zealand. Bottle and stopper	599,624	Feb. 22	2731	638	82	1179
McDowell, Albert T., assignor of one-half to W. A. McEvilly, Wilmington, Del. Match-						
safe	612,262	Oct. 11	1193	286	85	242
McDowell, Alexander, Lynn, Mass. Heel-trimming machine for boots or shoes	615,092	Nov. 29	3392	777	85	1332
McDowell, Alexander, Lynn, Mass. Heel-trimming machine	615,880	Dec. 13	1181	276 277	85	1656
McDowell, Robert G., Anaconda, Mont. Vehicle-wheel	605,003	May 31	3219	741	83	1308
McDuffee, Andrew J. (See Sunderland, Jesse W., assignor.)						
McElfresh, Franklin P., Anderson, Ind. Jar-closure	608,475	Aug. 2	548	122	84	764
McElhiney, William. (See Frisbie, Warren M., assignor.)						
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y.						
Electric heater	598,638	Feb. 8	981	236 237	82	806
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y.						
Electric radiator	598,639	Feb. 8	982	237	82	806
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y.						
Electric heater	598,640	Feb. 8	984	237	82	807
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Sys-						
tem for heating by electricity	608,211	Aug. 2	76	20	84	670
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Car-						
heating system	608,212	Aug. 2	79	21	84	670
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Valve	608,342	Aug. 2	321	71	84	720
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Elec-						
tric heater	608,343	Aug. 2	322	71	84	720
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Elec-						
tric heater	610,999	Sept. 20	1538	353	84	1772



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McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric coupling	611,000	Sept. 20	1539	353 354	84	1773
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric-heating system	611,001	Sept. 20	1541	354 355	84	1773
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Electric heater	616,800	Dec. 27	2953	689	85	2041
McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company. Electric heater	601,585	Mar. 29	3473	791	82	1964
McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company, Wheeling, W. Va. Thermostat	610,998	Sept. 20	1537	353	84	1772
McElroy, James F., Lansing, Mich., assignor, by mesne assignments, to Consolidated Car-Heating Company, Wheeling, W. Va. Apparatus for heating cars	610,997	Sept. 20	1536	353	84	1772
McElroy, Lucy D., New York, N. Y. Shovel and sifter	598,739	Feb. 8	1153	277	82	838
McElroy, Samuel, New York, N. Y. Apparatus for purifying water	610,849	Sept. 13	1270	293	81	1706
McElwaine-Richards Company. (See Richards, George A., assignor.)						
McElwaine-Richards Company. (See Williams, Lee H., assignor.)						
McElwee, George D., Gloster, Miss. Cotton-scraper	600,739	Mar. 15	2033	464	82	1646
McEnany, Patrick, New York, N. Y. Button	614,490	Nov. 22	2272	520	85	1105
McEvilly, Walter A. (See McDowell, Albert T., assignor.)						
McEvoy, Charles H. (See Blodgett, Alden B., assignor.)						
McEwen, James H., Du Bois, Pa. Car-wheel	605,896	June 21	1572	361	83	1690
McFadden, Bernard A., New York, N. Y. Exercising-machine	602,517	Apr. 19	1601	367	83	335
McFadden, Emerson C., Short Hills, N. J. Tandem attachment for bicycles	599,859	Mar. 1	344	78	82	1278
McFaddin, William H., and J. P. Lucas; said Lucas assignor to J. Love, Cadiz, Ohio. Window shade and curtain hanger	614,742	Nov. 22	2716	618	85	1187
McFarland, Abraham W., assignor to A. G. McFarland, Portland, Ind. Fence-wire-twisting machine	614,970	Nov. 29	3154	725	85	1290
McFarland, Adella G. (See McFarland, Abraham W., assignor.)						
McFarland, William, Trenton, N. J. Rotary engine	615,037	Nov. 29	3291	757	85	1314
McFarland, Willis F., Lynn, Mass. Protector for trousers	614,491	Nov. 22	2273	520	85	1105
McFeely, Thomas, et al. (See Loutzenhiser, Charles H., assignor.)						
McGahan, Alexander W., Salinas, Cal. Pipe-coupling	616,005	Dec. 13	1436	336	85	1705
McGahey, Richard. (See Bowman, Lewis H., assignor.)						
McGarry, John A., Chicago, Ill. Device for handling lumber	601,043	Mar. 22	2531	575	82	1753
McGee, Augustus M., assignor of one-half to C. Haas, Cleveland, Ohio. Process of and machine for making chaplets	609,899	Aug. 30	3192	748	84	1336
McGee, William G., Wilmington, Del. Garment-clasp	601,814	Apr. 5	365	76	83	69
McGee, William G., Wilmington, Del. Safety stop or brake for elevators	608,297	Aug. 2	221	52	84	699
McGee, William O., and C. L. Downing, Gallatin, Mo. Mowing-machine	600,015	Mar. 1	619	141	82	1331
McGenniss, David, assignor of one-half to O. C. Burt, Easthampton, Mass. Blank for knitted garments	609,694	Aug. 23	2851	667	84	1255
McGenniss, David, assignor of one-half to O. C. Burt, Easthampton, Mass. Circular-knitting machine	616,344	Dec. 20	2095	488 489	85	1853
McGeoch, Alexander, Oakland, Cal. Street-sprinkling, irrigating, and fire-extinguishing system	605,611	June 14	1011	233	83	1565
McGeorge, James, Cleveland, Ohio. Locomotive hand-car	599,912	Mar. 1	451	100 101	82	1299
McGiehan, Isaac S., New York, N. Y. Bicycle-wheel rim	612,171	Oct. 11	1029	248	85	211
McGill, Albert E., Chicago, Ill. Saddle-post	603,472	May 3	414	92	83	680
McGinley, C. A., et al. (See Downey, Richard F., assignor.)						
McGinley, James A., Springfield, Mass. Oar-lock	611,436	Sept. 27	2389	548	84	1951
McGlade, Cornelius, Philadelphia, Pa. Measuring device	606,977	July 5	592	130	84	118
McGlatheery, Austin, Norman, Okla. Ter. Automatic brake	598,000	Jan. 25	2665	622	82	567
McGlauffin, Eugene O., Anoka, Minn. Roll-off lumber-wagon	600,646	Mar. 15	1857	425	82	1612
McGlenn, John F., Bowdle, S. D. Rotary engine	600,951	Mar. 22	2377	541 542	82	1724
McGlinchey, Charles E., Highlandville, Mass., assignor to W. Herrick, Chicago, Ill. Hub for bicycle-wheels	614,334	Nov. 15	1972	455	85	1035
McGloin, Frank. (See Buchel and McGloin.)						
McGovern, John F. (See Wilhelm and McGovern.)						
McGowan, James F., Brooklyn, assignor to Iron Clad Manufacturing Company, New York, N. Y. Enameled ware and ornamenting thereof	596,942	Jan. 4	850		82	165
McGowan, John A., Maywood, assignor of three-eighths to W. R. Armstrong, Chicago, Ill. Carbureter	606,998	July 5	643	139	84	128
McGowan, John C., assignor of one-half to O. G. McCall, Washington, D. C. Sewer	596,531	Jan. 4	122	28	82	26
McGowan, John C., assignor, by mesne assignments, of one-half to S. M. Bryan, Washington, D. C. Gate for sewers or the like	616,486	Dec. 27	2377	551 552	85	1930
McGrath, Patrick H., assignor of one-half to M. F. Cunningham, Randolph, Mass. Bottle-closure	604,629	May 24	2581	589 362 363 364 365 366 367 368	83	1167
McGrath, Patrick H., Randolph, Mass., assignor, by mesne assignments, to Johnson Typesetter Company, Portland, Me. Type setting and justifying machine	608,997	Aug. 9	1525	365 366 367 368	84	969
McGraw, Frank H. (See Smith and Putt, assignors.)						
McGraw, William, Mount Airy, Ohio. Acetylene-gas generator	603,535	May 3	547	120	83	706
McGregor, Alexander, Leigh, England. Grain-binder	613,214	Oct. 25	2869	677	85	596
McGregor, Bradford, Covington, Ky. Bicycle-saddle	613,295	Nov. 1	129	30	85	642
McGregor, Montague M., and J. H. Williams, Rockwall, Tex.; said McGregor assignor to said Williams. Railway-gate	615,402	Dec. 6	353	84	85	1481
McGuff, John J., assignor of one-half to O. W. Snyder, Lexington, Ky. Cooking stove or range	605,897	June 21	1573	362	83	1690
McGuire, John, et al. (See McClair, Charles A., assignor.)						
McGuire, John A., et al. (See Conway, Thomas J., assignor.)						
McGuire, William A., Chicago, Ill. Grain-car door	606,170	June 21	2099	482	83	1786
McGuire, William T., Rossville, Iowa. Thill-coupling	611,267	Sept. 27	2054	473 418 419 420	84	1890
McHardy, James A., assignor, by mesne assignments, to Nicholson File Company, Providence, R. I. Rasp-machine	606,020	June 21	1817	418 419 420	83	1733
McHardy, James A., assignor to Nicholson File Company, Providence, R. I. Rasp-machine	608,213	Aug. 2	81	21,22	84	671
McHenry, Henry C., assignor to J. W. Schadt, Fremont, Nebr. Fifth-wheel	613,215	Oct. 25	2870	677	85	597
McHugh, Edward, Dublin, Ireland. Word-register for type-writing machines	614,492	Nov. 22	2274	520 521	85	1105



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McIlvried, Peter. (See Lehberger, George, assignor.)						
McIlyar, William P., Cambridge, Ohio. Garment-hook	601,669	Apr. 5	80	16	83	16
McInnerney, Benjamin, assignor to McInnerney Manufacturing Company, Omaha, Nebr. Generator for electrical igniters	608,895	Aug. 9	1320	308	84	930
McInnerney, Benjamin, assignor to McInnerney Manufacturing Company, Omaha, Nebr. Generator for electrical igniters	608,896	Aug. 9	1321	308	84	930
McInnerney Manufacturing Company. (See McInnerney, Benjamin, assignor.)						
McIntire, Charles S., Allegheny, assignor of two-thirds to J. B. Zimmerman and W. C. Beringer, Pittsburg, Pa. Shovel-handle	599,514	Feb. 22	2528	594	82	1139
McIntosh, George T., Cleveland, Ohio. Bicycle-holder	597,507	Jan. 18	1824	422	82	389
McIntosh, Harry W. (See Taylor, Joseph W., assignor.)						
McIntosh, Neil W., New York, N. Y. Rotary blower	608,377	Aug. 2	369	81	84	729
McIntosh, William, Winona, Minn. Blow-off cock	603,043	Apr. 26	2510	570	83	521
McIntosh, William, Winona, Minn. Combined boiler-check and blow-off cock	615,881	Dec. 13	1186	277	85	1657
McInturff, Abraham, and H. J. Stewart, Eversonville, Mo. Wire-stretcher	611,268	Sept. 27	2055	473 474	84	1890
McIntyre, Donald L. M., New York, N. Y. Pedal	598,325	Feb. 1	448	107	82	687
McIntyre, Frederick T., Washington, D. C. Multiple-rate metering system	611,927	Oct. 4	579	140	85	114
McIntyre, John, Jersey City, N. J. Apparatus for increasing efficiency of compressed air	596,822	Jan. 4	646	148 149	82	125
McIntyre, John, Jersey City, N. J. Internal separator	615,093	Nov. 29	3395	777 778	85	1333
McKaig, Elthera P., Richmond Hill, N. Y. Pilot for railway-cars	602,226	Apr. 12	1111	244	83	224
McKanna, Amos, Emporia, Kans. Order-file for locomotive-engineers	607,946	July 26	2629	559	84	562
McKay, Alexander, Montreal, Canada. Dust-tight sifter for ashes	610,635	Sept. 13	904	207	84	1631
McKay, George F., assignor of one-half to J. H. Kennedy, Boston, Mass. Actuator for tramway-switches	601,271	Mar. 29	2954	668	82	1862
McKay Neverslip Sole Company. (See McKay, Robert, assignor.)						
McKay, Peter T., Toronto, Canada. Pneumatic tire	602,766	Apr. 19	2025	459	83	414
McKay, Robert, assignor to McKay Neverslip Sole Company, Detroit, Mich. Cushioned heel-plate for boots or shoes	598,714	Feb. 8	1115	268	82	831
McKay Shoe Machinery Company. (See Cutter, Solomon M., assignor.)						
McKay, William J., Chicago, Ill. Fruit-cleaner	599,515	Feb. 22	2528	595	82	1139
McKean, Edward, St. Louis, Mo. Sliding-door lock	596,757	Jan. 4	541	124	82	104
McKean, Samuel G., assignor of one-half to F. and L. Ingersoll, Pittsburg, Pa. Mechanical movement	609,361	Aug. 16	2225	526	84	1118
McKechnie, John, Glasgow, Scotland. Screw-propeller	615,094	Nov. 29	3398	778 779	85	1333
McKee, Edward C., Harrisburg, Pa. Plumber's screw-threading die	607,068	July 12	806	177	84	175
McKee, Henry B., assignor of R. W. McKee, Brooklyn, N. Y. Eccentric	598,253	Feb. 1	320	73	82	662
McKee, James R., Bardsdale, Cal. Fruit-press	609,695	Aug. 23	2853	667	84	1255
McKee, Robert J. (See Brake and McKee.)						
McKee, Russell W. (See McKee, Henry B., assignor.)						
McKee, S. Wallace, et al. (See Ledward, Frederick A., assignor.)						
McKee, William S. (See Schmunk, Charles E., assignor.)						
McKeen, Thomas L., New York, N. Y. Vestibule-car	601,899	Apr. 5	533	110	83	101
McKeen, Thomas L., New York, N. Y. Buffer-platform for railway-cars	601,900	Apr. 5	535	110 111	83	101
McKeen, Thomas L., New York, N. Y. Car-coupling	601,901	Apr. 5	536	111	83	101
McKelvey, Charles H. (See McKelvey, Jonathan, D., and C. H.)						
McKelvey, David. (See McKelvey, Jonathan, D., and C. H.)						
McKelvey, James R., Lawrenceville, Ga. Telephone arm-rest	612,172	Oct. 11	1030	248	85	211
McKelvey, Jonathan, D., and C. H., Louisville, Ky. Amalgamator	613,706	Nov. 8	858	198	85	801
McKenna, Edward W., Milwaukee, Wis. Method of and machine for rolling steel rails	608,380	Aug. 2	377	82	84	730
McKenna, Edward W., assignor to McKenna Steel Working Company, Milwaukee, Wis. Machine for renewing old steel rails	608,378	Aug. 2	370	81	84	729
McKenna, Edward W., assignor to McKenna Steel Working Company, Milwaukee, Wis. Method of and machine for renewing old steel rails	608,379	Aug. 2	374	82	84	730
McKenna Steel Working Company. (See McKenna, Edward W., assignor.)						
McKenna, Thomas. (See Staub and Duerst, assignors.) (Reissue.)						
McKenney Button Fastening Company. (See McKenney, Franklin S., assignor.)						
McKenney, Franklin S., assignor to McKenney Button Fastening Company, Detroit, Mich. Hand button-attaching implement	599,007	Feb. 15	1599	379 380	82	940
McKenney, Nathan P., Dixon, Ill. Toy	613,386	Nov. 1	306	71	85	675
McKenzie, Dougal J., assignor to McKenzie Furnace Company, Chicago, Ill. Grate	610,687	Sept. 13	979	227 228	84	1647
McKenzie Furnace Company. (See McKenzie, Dougal J., assignor.)						
McKenzie, John, Cowes, England. Device for checking runaway horses	611,702	Oct. 4	198	46, 47	85	41
McKenzie, Thomas W., Indianapolis, Ind. Telescopic structure	612,630	Oct. 18	1850	438	85	378
McKeone, Richard J., Sault Ste. Marie, Mich. Vacuum-protected high-explosive shell	602,092	Apr. 12	869	189	83	176
McKeown, William C., assignor to Standard Radiator Manufacturing Company, Buffalo, N. Y. Machine for cleaning castings	613,707	Nov. 8	860	198	85	801
McKeown, William C., assignor to Standard Radiator Manufacturing Company, Buffalo, N. Y. Testing apparatus	616,627	Dec. 27	2622	608	85	1974
McKernon, Charles, et al. (See Rising, Bradley D., assignor.)						
McKernon, Charles, et al. (See Wheat, Allen A., assignor.)						
McKibben, Charles W. (See Carnes and McKibben.)						
McKibbin, Gilbert H., et al. (See McClellan, Jackson, assignor.)						
McKim, Elias, Cass City, Mich. Combined grain, hay, and stock rack	602,093	Apr. 12	872	189	83	177
McKim, James A., Indianapolis, Ind. Supporting fireproofing on columns or beams	613,464	Nov. 1	448	102	85	702
McKinlay, Edward S. and W. A., Denver, Colo. Mining-machine	604,192	May 17	1775	400	83	995
McKinlay, William A. (See McKinlay, Edward S. and W. A.)						
McKinley, John J., et al. (See Stanley, Oramel C., assignor.)						
McKinley, Riley P. (See Huff and McKinley.)						
McKinney, George F. (See Owen, Gabel, and McKinney.)						
McKinnon, George M. (See Reese, Edwin Y., assignor.)						
McKinstry, Charles R., Mercersburg, Pa. Milk-pail	604,176	May 17	1749	394	83	991
McKnight, Alexander, New York, N. Y. Invalid-bed	608,619	Aug. 9	801	185 186	84	833
McKnight, David A., Washington, D. C. Elastic tire for vehicles	599,516	Feb. 22	2530	595	82	1140
McKnight, David A., Washington, D. C. Elastic-tired wheel	599,517	Feb. 22	2532	595	82	1140
McKnight, John W., assignor of three-fourths to P., J. L., M., and M. S. Lewin, Philadelphia, Pa. Protector for incandescent burners	606,226	June 28	2219	510	83	1828



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McKnight, Samuel, New York, N. Y. Cloth-testing device	598,205	Feb. 1	239	53	82	647
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Wheeled scraper	607,520	July 19	1825	380 381	84	393
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car	607,521	July 19	1828	381	84	393
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car	612,263	Oct. 11	1194	286	85	242
McKown, Florance M., Boothbay, Me. Meat-press	602,866	Apr. 26	2210	501	83	465
McLain, Edward A. (See Parke and Lamb, assignors.)						
McLallen, H. D., <i>et al.</i> (See Leatherman and Metzler, assignors.)						
McLane, Albert L., Laredo, Tex. Filter	613,170	Oct. 25	2769	652	85	578
McLane, Albert M., and C. Hardgrave, assignors of one-third to J. A. Dowdy, Clarksville, Ark. Egg-case filler	597,525	Jan. 18	1849	429	82	393
McLaren, Alexander L., Port Huron, Mich. Needle-threader	597,086	Jan. 11	1114	262	82	233
McLaren, William, London, England. Automatic water-closet for railway-carriages, &c.	611,458	Sept. 27	2424	556 557	84	1958
McLaren, William, London, England. Apparatus for opening, closing, and fastening windows or ventilators	613,171	Oct. 25	2770	653	85	578
McLarney, Joseph J., Philadelphia, Pa. Machine for driving wooden hoops upon barrels	614,125	Nov. 15	1584	362 363	85	963
McLarty, Julian, Monroe, N. C. Guano-distributor	612,751	Oct. 18	2054	487	85	418
McLaughlin, George G., Boston, assignor to J. C. Edwards, Brookline, Mass. Pump	608,003	July 26	2752	584	84	589
McLaughlin, George T. (See Hammond, Robert A., assignor.)						
McLaughlin, George T., <i>et al.</i> (See Hammond, William E., assignor.)						
McLaughlin, Henry H., McFann, Pa. Sucker-rod elevator	600,163	Mar. 8	1031	232	82	1436
McLaughlin, James A., Jessup, Ga. Vehicle-axle	596,532	Jan. 4	124	28	82	26
McLaughlin, James F., Philadelphia, Pa. Electric railway	613,708	Nov. 8	862	199 200	85	801
McLaughlin, James R., assignor of one-half to T. W. Martin, Clifton Springs, N. Y. Handle for sheet-metal vessels	605,004	May 31	3220	741	83	1309
McLaughlin, John G., assignor of one-half to R. W. Gleason, Brooklyn, N. Y. Trolley connection for electric cars	605,326	June 7	507	113	83	1449
McLaughlin, John G., assignor of one-half to R. W. Gleason, New York, N. Y. Guard-rail for open tramway-cars	610,688	Sept. 13	981	228	84	1647
McLaughlin, Patrick, Dover, N. H. Lawn-mower	608,526	Aug. 2	633	142	84	780
McLaughlin, William D., Merriam, Kans. Self-sealing jar or vessel	597,014	Jan. 11	974	230	82	206
McLean, Charles C. (See Newton, Henry E., assignor.)						
McLean, Charles F. (See Hopper and McLean.)						
McLean, Daniel L. (See Lambkin, William L., assignor.)						
McLean, David, Chicago, Ill. Blow-off valve	607,265	July 12	1187	254	84	245
McLean, Edwin D., Marissa, Ill. Stove or furnace	600,795	Mar. 15	2117	484	82	1662
McLean, Horace G., assignor to Allen Tripoli Company, Racine, Mo. Filter	607,570	July 19	1922	398	84	409
McLean, James W., Joplin, Mo. Filter	598,254	Feb. 1	321	73, 74	82	662
McLean, John, New York, N. Y. Bicycle	604,073	May 17	1556	349	83	952
McLean, John N., New York, N. Y. Hose-coupling	603,222	Apr. 26	2817	643	83	580
McLean, Sallie R. H., Cincinnati, Ohio. Tray or waiter	615,734	Dec. 13	947	220	85	1611
McLean, William, Belfast, Ireland. Wringing and mangling machine	611,075	Sept. 20	1666	382	84	1797
McLean, William J., New York, N. Y. Banjo-bell	604,630	May 24	2582	589	83	1167
McLeland, John C., Buffalo, N. Y. Calculating-machine	611,269	Sept. 27	2057	474 475	84	1891
McLennon, Charles, Spring Gulch, Colo. Rail-holder	605,793	June 14	1356	310	83	1630
McLeod, Mary J., Brooklyn, N. Y. Dress-supporter	597,428	Jan. 18	1678	390	82	359
McLeod, William W. (See Walton, Edwin, assignor.)						
McLeskey, Balus J., Reed Creek, Ga. Cotton-planter and fertilizer-distributor	610,718	Sept. 13	1036	239	84	1659
McLeod, Horace J., assignor of one-half to T. J. Nalley, Louisiana, Mo. Rotary engine	597,585	Jan. 18	1944	452 453	82	413
McMahon, Ellen E. (See McMahon, Joseph, assignor.)						
McMahon, Joseph, assignor of one-half to E. E. McMahon, Chicago, Ill. Car-bumper	609,159	Aug. 16	1853	440	84	1043
McMakin, Lewis, Jr. (See Richardson and McMakin.)						
McMannama, Doc, Villisca, Iowa. Corn harvesting and husking machine	611,791	Oct. 4	342	82, 83	85	69
McManus, Alonzo. (See Judd and McManus.)						
McManus, John B., assignor of one-half to A. B. and H. S. Van Voast, Schenectady, N. Y. Bicycle-saddle	611,221	Sept. 20	1953	451	84	1851
McManus, Thomas W. (See Goehring, Jacob, assignor.)						
McMichael & Wildman Manufacturing Company. (See Wildman, Frank B., assignor.)						
McMillan, Archie B., New York, N. Y. Electromagnetic motor	607,451	July 19	1529	326	84	328
McMillan, Silas N., Loogootee, Ill. Tongue-support	615,735	Dec. 13	948	220	85	1611
McMillan, William, Des Moines, Iowa. Combined mail-box and door-bell	613,016	Oct. 25	2525	601	85	529
McMillin, Henry C., Lima, Ohio. Composition of matter for plastering	605,898	June 21	1574		83	1690
McMillin, Robert S., assignor of one-half to V. H. Lockwood, Indianapolis, Ind. Garment-holder	609,117	Aug. 16	1785	425	84	1030
McMorrow, Patrick. (See Williams and McMorrow.)						
McMullen, Albert R., Lennox, S. D. Foldable straw-carrier for threshing-machines	605,327	June 7	508	114	83	1449
McMullen, David S., Evanston, Ill. Fence-post	612,052	Oct. 11	825	202	85	171
McMullen, Francis F., Bondville, Ill. Gate	605,794	June 14	1357	311	83	1630
McMullen, Wilbert H. (See Hoyt, Rufus L., assignor.)						
McMullen Woven Wire Fence Company. (See Wilson, David, assignor.)						
McMullin, Frank R. (See Hildebrandt and McMullin.)						
McMurray, Dennis B., assignor of one-half to G. R. Wallace, Fitchburg, Mass. Paper-making machine	610,493	Sept. 6	666	149	84	1567
McMurray, Peter, Welland, Canada. Acetylene-gas generator	599,347	Feb. 22	2197	521 522	82	1074
McMurtry, George G., Allegheny, Pa. Rolling-mill	608,381	Aug. 2	380	83	84	731
McMurtry, George G., Allegheny, Pa. Rolling-mill	608,382	Aug. 2	381	83	84	731
McMyler, John, and G. H. Hulett, Cleveland, Ohio. Loading or unloading apparatus	601,670	Apr. 5	81	16, 17	83	17
McNabb, Duncan, assignor of two-thirds to A. Livingston and J. Cochrane, Lowell, Mass. Rotary heel for boots or shoes	596,758	Jan. 4	543	124	82	104
McNagay, W. F., <i>et al.</i> (See Leatherman and Metzler, assignors.)						
McNair, Robert H. and W. A., assignors of one-third to C. F. Abrell, Elsay, Ill. Folding basket	613,387	Nov. 1	307	71	85	676
McNair, William A. (See McNair, Robert H. and W. A.)						
McNairy, Amos B., Cleveland, Ohio. Can or like closure	609,239	Aug. 16	2014	478	84	1076
McNair, Broughton, Chili, N. Y. Gate	599,008	Feb. 15	1602	380	82	941
McNamara, Mary L. (See Jordan, Dennis, assignor.)						
McNamee, George T., Roanoke, Va. Stove-fender	610,555	Sept. 13	774	176	84	1603



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McNaught, J. A. (See Anderson, Edward, assignor.)						
McNeal, Andrew H. (See Allen, Charles B., assignor.)						
McNeal, David. (See Rauh and McNeal.)						
McNear, George W. (See Quinsler and McNear.)						
McNeight, David A. (See James, William, assignor.)						
McNeight, David A. (See Kingdon, Zachary H., assignor.)						
McNeil, Chester. (See Woodward and McNeil.)						
McNeil, Chester, Rogers Park, assignor to Union Special Sewing Machine Company, Chicago, Ill. Presser-foot and throat-plate for sewing-machines	605,449	June 7	736	167	83	1494
McNeil, George, and T. J. Rogers, Chicago, Ill. Lubricator	606,294	June 28	2346	543	83	1855
McNeill, Augustus R., Oldfields, W. Va. Cut-out	600,593	Mar. 15	1782	408	82	1598
McNelly, Mathias F., Chicago, Ill., assignor to Monarch Manufacturing Company, Indianapolis, Ind. Acetylene-gas generator	610,877	Sept. 13	1325	304	84	1718
McNerney, Edmund, Pittsfield, Mass. Electric motor	599,913	Mar. 1	455	101	82	1299
McNerney, Peter J., and G. L. Haymond, Indianapolis, Ind.; said McNerney assignor to said Haymond. Antiseptic water-tank and faucet	597,912	Jan. 25	2506	586	82	536
McNiel, A. C., Jr., <i>et al.</i> (See Doyle, George M., assignor.)						
McNish, Alexander, Salem, N. Y. Gable-door	605,899	June 21	1575	362	83	1690
McNish, Thomas N., Kearny, N. J. Gas-lighter	602,351	Apr. 12	1317	293	83	265
McNulty, Joseph G., New York, N. Y. Method of and apparatus for treating ores	614,572	Nov. 22	2401	548 549	85	1129
McNutt, John F., Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Printing-press	597,651	Jan. 18	2056	481	82	434
McNutt, John F., Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Printing-press	597,652	Jan. 18	2058	481	82	435
McNutt, John F., Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Counter	601,879	Apr. 5	500	103	83	94
McNutt, John F., Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Paper-feeding machine	605,328	June 7	511	114	83	1450
McNutt, John F., Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Paper-cutting machine	616,801	Dec. 27	2954	689 690	85	2041
McParlin, Francis V., Chicago, Ill. Artificial limb	615,299	Dec. 6	140	37	85	1440
McPartland, James H., Houlton, Me. Ball-cock valve	603,897	Aug. 9	1323	308	84	930
McPhail, Percy R., <i>et al.</i> (See Schwarzschild, Solomon, assignor.)						
McPherson, Arthur G., Highland Park, Ill. Electric switch	602,767	Apr. 19	2025	460	83	414
McPherson, Donald. (See Barron, George F., assignor.)						
McPherson, Frank G., Beaver Falls, Pa., assignor to C. F. Zimmermann Company, Dolgeville, N. Y. Autoharp	596,906	Jan. 4	779	184	82	152
McPherson, Frank G., Beaver Falls, assignor of one-half to G. W. Miller, Rochester, Pa. Musical instrument	602,352	Apr. 12	1318	293	83	266
McPherson, Leon O., Highland Park, assignor to Gray European Telautograph Company, Chicago, Ill. Telautograph	610,274	Sept. 6	237	53, 54	84	1488
McQuarrie, Archibald, Buffalo, N. Y. Cuspidor and attachment	610,556	Sept. 13	775	176	84	1603
McQueen, George O. (See Malkemus, Charles H., assignor.)						
McQueen, William A., <i>et al.</i> (See Wagner, Isaac L., assignor.)						
McRae, Alexander, Milton, Oreg. Leaf-turner for music-books	615,403	Dec. 6	355	85	85	1481
McRae, Henry C., Macon, Fla. Cuspidor	603,199	Apr. 26	2780	634	83	573
McSweeney, James, assignor to E. D. Jones & Sons Company, Pittsfield, Mass. Hand-drill	610,455	Sept. 6	587	131	84	1551
McTaggart, Francis, Iroquois, S. D. Car-coupling	605,742	June 14	1241	287	83	1609
McTernan, Andrew, assignor to Tyer Rubber Company, Andover, Mass. Nipple for nursing-bottles	615,095	Nov. 29	3398	779	85	1333
McTighe, Thomas J., Brooklyn, assignor to C. H. Hoyt, New York, N. Y. Method of incinerating incandescent gas-mantles and apparatus therefor	604,121	May 17	1642	368	83	968
McVay, Jennie L., Winona, Minn. Hook	607,123	July 12	919	199	84	196
McVay, Zadok, Gumpond, Ala. Guano-distributor	601,160	Mar. 22	2714	624 625	82	1789
McWane, Henry E. (See Wiley, Edgar C., assignor.)						
McWhorter, William A., Norfolk Va. Fertilizer-distributor	613,591	Nov. 1	666	153 154	85	742
McWithey, Tilley G., Cloquet, Minn. Corn-popper	609,160	Aug. 16	1854	441	84	1043
McGwire, William W., Dungarvan, Ireland. Life-boat	602,912	Apr. 26	2294	523	83	480
Me Yere, Arthur, Nashville, Tenn. Shirt-bosom retainer	609,109	Aug. 16	1775	422	84	1028
Meacham, Thomas W. (See Dockstader, James, assignor.)						
Mead, Albert G., Medford, Mass. Bicycle	616,480	Dec. 27	2363	549	85	1927
Mead, Ernest J., Bridgetown, England. Voting-machine	607,445	July 19	1519	323	84	326
Mead, Frank S., Montreal, Canada. Gas or oil engine	603,914	May 10	1221	276	83	853
Mead, Frank S., Montreal, Canada. Reversing mechanism	612,257	Oct. 11	1186	285	85	240
Mead, Frank S., Montreal, Canada. Gas or oil engine	612,258	Oct. 11	1187	285	85	240
Mead, George A. (See King and Mead.)						
Mead, Henry B., Scotland, Conn. Rebounding toy balloon	600,967	Mar. 22	2401	548	82	1729
Mead, Theodore H., <i>et al.</i> (See Crowell, Luther C., assignor.)						
Mead, Theodore H., <i>et al.</i> (See Moody, John H., assignor.)						
Mead, Theodore H., <i>et al.</i> (See North, Thomas M., assignor.)						
Mead, Theodore H., <i>et al.</i> (See Read, George F., assignor.)						
Mead, Theodore H., <i>et al.</i> (See Sheldon, Edward P., assignor.)						
Mead, Theodore H., <i>et al.</i> (See Spalckhaver, William, assignor.)						
Mead, Theodore H., <i>et al.</i> (See Stone, Irving, assignor.)						
Meade, Frank. (See Carman, Florence, assignor.)						
Meadows, George B., assignor to George B. Meadows Toronto Wire Iron and Brass Works' Company, Limited, Toronto, Canada. Cot	614,566	Nov. 22	2389	546	85	1127
Meaker, Charles L. (See Buck and Meaker.)						
Mealey, Johnston, Howard Lake, Minn. Harness-buckle	602,951	Apr. 26	2370	540	83	496
Mealey, Johnston, Howard Lake, Minn. Trace or tug buckle	614,877	Nov. 29	2965	681	85	1250
Mealey, Robert C., Howard Lake, Minn. Milk-weighing machine	605,889	June 21	1561	359	83	1688
Means, George H., Frankfort, Ky. Fountain-pen	610,818	Sept. 13	1223	282	84	1695
Means, John H. (See Hardy, Frederick, assignor.)						
Meany, Richard B., Union, N. J., assignor to Peerless Rubber Manufacturing Company, New York, N. Y. Collapsible pneumatic mattress	598,054	Jan. 25	2749	641	82	584
Mears, Henry A., Cambridge, Mass. Valve for pneumatic tires	601,211	Mar. 22	2811	643	82	1806
Measure, Walter. (See Sidwell, Arthur, assignor.)						
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Loom	609,156	Aug. 16	1849	439 440	84	1042
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Frame for cotton-combing machines	616,794	Dec. 27	2945	686	85	2039
Meats, John T., and E. L. Sargent, assignors to Mason Machine Works, Taunton, Mass. Shuttle-box-operating mechanism for looms	596,898	Jan. 4	761	180 181	82	149



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Meats, John T., and T. W. Dean, assignors to Mason Machine Works, Taunton, Mass. Twist-indicator for spinning-machines.....	610,552	Sept. 13	768	175	84	1602
Mechanical Door Hinge Check Company. (See Hanington, Charles F., assignor.)						
Mechwart, William, and A. Brahm, Chicago, Ill. Wooden flower-tub.....	610,156	Aug. 30	3629	844	84	1424
Medaugh, Norman R., Abanaka, Ohio. Feed-trough.....	599,572	Feb. 22	2638	618	82	1161
Medbery, Nelson H., East Providence, R. I. Valve-coupling.....	609,207	Aug. 16	1933	459 460	84	1058
Medbery, Nelson H., East Providence, R. I. Regulating-cock for acetylene-gas generators.....	611,698	Oct. 4	192	45	85	40
Medbury, Charles B., Rockdale, N. Y. Truss.....	616,196	Dec. 20	1820	420	85	1798
Medlin, Logan M. (See Kirshman and Medlin.)						
Meehan, John C., Springfield, Mass. Luggage-carrier for bicycles.....	612,908	Oct. 25	2359	562	85	494
Meehan, John J. (See Meehan, Patrick and J. J.)						
Meehan, Patrick and J. J., Newcastle, Pa. Boiler.....	612,909	Oct. 25	2360	562 563	85	494
Meeker, David M., Newark, N. J. Apparatus for melting and applying sealing-wax, &c.	600,619	Mar. 15	1819	417	82	1604
Meeker, Ellis R., Elizabeth, N. J., assignor to New York Belting and Packing Company, New York, N. Y. Tool for repairing pneumatic tires.....	611,414	Sept. 27	2344	540	84	1944
Meeker, Ellis R., Elizabeth, N. J., assignor to American Kit Company, New York, N. Y. Tool for repairing pneumatic tires.....	611,972	Oct. 4	653	158	85	127
Meeker, Stephen J., Newark, N. J. Bracket hose-reel.....	600,333	Mar. 8	1309	299	82	1489
Meeker, William, Dayton, Ohio. Bearing for vehicle-wheels.....	608,698	Aug. 9	951	218	84	863
Meeks, James C. (See Kuhne, Adolph, assignor.)						
Meeske, Casper P. W. (See Cramer, Philipp, assignor.)						
Meeteer, James H., Brooklyn, N. Y. Foot-covering.....	599,341	Feb. 22	2187	520	82	1072
Mefford, David M., Toledo, Ohio, assignor of two-thirds to C. W. Harrison, South Pittsburg, Tenn. Pneumatic ordnance.....	614,878	Nov. 29	2966	681	85	1251
Megins, John, Duluth, Minn. Guard-rail for berths.....	598,735	Feb. 8	1147	276	82	837
Megonigal, John P., Gladwyne, assignor of one-half to C. J. Fryer, Lower Merion, Pa. Attachment for carding-machines.....	596,605	Jan. 4	262	58	82	52
Megown, John, assignor of one-half to E. H. Moore, Youngstown, Ohio. Car-fender.....	597,203	Jan. 11	1298	303 304	82	269
Mégy, Leandre, Paris, France. Clutch apparatus.....	613,702	Nov. 8	842	193 194	85	798
Mehl, Andrew, Garrison, assignor to A. L. Clayton, Baltimore, Md. Detachable link.....	606,997	July 5	642	139	84	127
Mehling, John A., assignor to F. B. Manny, Cleveland, Ohio. Vehicle.....	612,117	Oct. 11	938	227	85	194
Mehner, Carl H., assignor of one-half to A. H. Sylvester, Berlin, Germany. Cigarette-wrapper.....	604,257	May 17	1889		83	1016
Mehner, Hermann, Berlin, Germany. Producing ammonia.....	607,943	July 26	2625	557	84	561
Mehring, Charles, Charlottesville, Va. Automatic car-coupling.....	613,523	Nov. 1	558	126	85	721
Meier, Carl, Neu-Ruppin, Germany. Pedal mechanism for bicycles or the like.....	613,456	Nov. 1	438	100	85	700
Meier, Edward D., and H. G. Tidemann, St. Louis, Mo. Boiler.....	610,969	Sept. 20	1480	338	84	1762
Meier, William. (See Hudson and Meier.)						
Meigs, Nathan J., West Haven, assignor of one-half to E. L. Knowles, New Haven, Conn. Latch.....	605,170	June 7	201	51	83	1388
Meiklejohn, George D., <i>et al.</i> (See Grove and Stover, assignors.)						
Meiklejohn, George D., <i>et al.</i> (See Wilkinson, Thomas A. and A. C., assignors.)						
Meiklejohn, George D., <i>et al.</i> (See Wilkinson, Thomas A. and F. A., assignors.)						
Meiklejohn, James. (See Brown and Meiklejohn.)						
Meily, George H., <i>et al.</i> (See Schall, Michael S., assignor.)						
Meinecke, Peter W., New York, N. Y. Pole-painter.....	615,627	Dec. 7	758	175	85	1562
Meinshausen, Otto, Chicago, Ill. Grain-drier.....	613,382	Nov. 1	298	69	85	674
Meinz, David G., St. Louis, Mo. Device for making cigarettes.....	601,618	Mar. 29	3522	803	82	1973
Meischner, Friedrich A., Chemnitz, Germany. Nut-threading machine.....	614,567	Nov. 22	2390	546	85	1127
Meisel, Francis, Boston, Mass. Machine for cutting paper from webs into sheets.....	601,200	Mar. 22	2794	639	82	1803
Meisel, Francis, assignor to Kidder Press Manufacturing Company, Boston, Mass. Paper cutting and winding machine.....	610,329	Sept. 6	360	76, 77	84	1510
Meislahn, F. C. (See Towle and Tschinkel, assignors.)						
Meisner, Anthony M., Chicago, Ill. Soft-tread horseshoe.....	612,953	Oct. 25	2429	578	85	509
Meissner, Charles J., and F. Koenig, Boston, Mass. Window-glass cutter.....	599,620	Feb. 22	2726	637	82	1178
Meissner, Friedrich. (See Stocker, Meissner, and Zander.)						
Meissner, Paul, Glenville, Md. Suspending device for horse-boots, &c.....	601,974	Apr. 5	680	144	83	129
Meissner, William E., Rockaway Beach, N. Y. Merry-go-round.....	603,589	May 3	628	140	83	723
Melançon, Phlégie R. (See Lombas, Joseph A., assignor.)						
Melanowski, Leo, assignor to Crosby & Mayer Company, Buffalo, N. Y. Chain adjustment for velocipedes.....	614,568	Nov. 22	2393	546	85	1127
Melcher, John E., assignor to himself, J. W. Kinzel, and J. H. Emley, Wisner, Nebr. Ejector.....	601,521	Mar. 29	3379	765 766	82	1944
Melcher, Louis, <i>et al.</i> (See Maus, Markus F., assignor.)						
Meldrum, Charles A., Detroit, Mich. Hair-pin.....	616,680	Dec. 27	2745	638	85	1999
Meldrum, James J., T. F., and J. W., and F. Clayton, Manchester, England. Mechanical stoker.....	609,038	Aug. 16	1620	385 386 387	84	1001
Meldrum, James J. and T. F., Manchester, England. Furnace.....	615,400	Dec. 6	351	84	85	1481
Meldrum, James J. and T. F., Manchester, England, and W. Thomson, Govan, Scotland. Furnace.....	614,569	Nov. 22	2394	547	85	1127
Meldrum, John W. (See Meldrum and Clayton.)						
Meldrum, Thomas F. (See Meldrum, James J. and T. F.)						
Meldrum, Thomas F. (See Meldrum and Clayton.)						
Meldrum, Thomas F. (See Meldrum and Thomson.)						
Melin, August, Chicago, Ill. Self-locking seal.....	609,621	Aug. 23	2723	635	84	1230
Mellina, Joseph. (See Dwyer, Anderson, and Mellina.)						
Mellinger, Isaiah G., Lake Forrest, Ill. Picture.....	613,703	Nov. 8	846	194	85	798
Mellon, Peter H., St. Louis, Mo. Folding bed.....	612,592	Oct. 18	1760	416	85	361
Melquiond, Cyr H., Oakland, Cal. Bicycle-lock.....	611,757	Oct. 4	285	68	85	58
Melrose, Alexander F., and H. B. Van Deusen, Pittsfield, Mass. Apparatus for dyeing.....	603,915	May 10	1223	277 278	83	854
Melton, Pink, Winkler, Tex. Root or sod cutter.....	605,497	June 14	808	187	83	1528
Meltzer, Heinrich, Ratibor, Germany. Ball-bearing.....	599,621	Feb. 22	2727	637	82	1178
Meltzer, Heinrich, Ratibor, Germany. Machine for working balls.....	608,470	Aug. 2	535	120	84	762
Meltzer, Heinrich, Ratibor, Germany. Apparatus for examining the exact spherical form of balls.....	610,071	Aug. 30	3499	810 811	84	1396
Melven, Jonathan H., St. Louis, Mo. Inking-pad.....	608,887	Aug. 9	1308	305	84	928
Melvin, Wythe G., assignor of one-half to W. N. Gilliam and W. C. Harless, New River Depot, Va. Coffee-pot.....	599,513	Feb. 22	2526	594	82	1139
Menagh, John S., Jersey City, N. J. Apparatus for displaying price-cards.....	609,359	Aug. 16	2221	525	84	1117



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Menahan, Patrick J., Brooklyn, N. Y. Corset-clamp	597,685	Jan. 18	2115	495	82	444
Mendel, Jacob, Nyack, N. Y. Car-truck	602,462	Apr. 19	1512	345	83	317
Mendelson, Charles. (See Gaines, Charles A., assignor.)						
Mendenhall, Walter E., assignor of one-half to E. S. Gosney, Flagstaff, Ariz. Ter. Ore-concentrator	604,061	May 17	1530	344	83	947
Meneley, Dennis T., Greenfield, Ill. Plow-disk	598,799	Feb. 8	1240	300	82	855
Meng, George, <i>et al.</i> (See Schwechler, John, assignor.)						
Mengel, Charles C., Louisville, Ky. Packing-box	615,294	Dec. 6	132	35	85	1438
Mengel, Joseph A., McKeanburg, and G. K. Binkley, Orwigsburg, assignors of one-third to G. H. Gerber, Pottsville, Pa. Potato-planter	613,212	Oct. 25	2865	675	85	596
Mengel, Joseph A., McKeanburg, G. K. Binkley, Orwigsburg, and G. H. Gerber, Pottsville, Pa. Potato cutter and planter	606,291	June 28	2340	542	83	1854
Menier, Henri, Paris, France. Apparatus for joining telegraph-cables	604,258	May 17	1890	423	83	1016
Menk, Anthony W., Minneapolis, Minn. Chain and sprocket-wheel for driving bicycles, &c.	599,970	Mar. 1	542	124	82	1316
Menke, Gustav. (See Abt, Babette, assignor.)				125		
Mennons, Francis F. H. L., <i>et al.</i> (See Thierry, Michel C. P., assignor.)						
Mensching, Carl. (See Levinstein and Mensching.)						
Mentze, Hugo W. E., assignor to Boldt & Vogel, Hamburg, Germany. Bottle-washer	611,180	Sept. 20	1867	430	84	1836
Menze, Charles T., St. Louis, Mo. Cithern	603,699	May 10	832	431	83	779
Menzenhauer, Frederick, <i>et al.</i> (See Hochspeier, William F., assignor.)				184		
Menzie, Robert E., Toronto, Canada. Apparatus for sizing cloth	600,676	Mar. 15	1924	437	82	1625
Mercer, Frederic W. (See Palmer and Mercer.)						
Mercié, Henri A. (See Benét and Mercié.)						
Merck, Firm of E. (See Dürkopf, Ernst, assignor.)						
Merck, Firm of E. (See Dürkopf, Ernst H. C., assignor.)						
Meredith, Albert M., Philadelphia, Pa., assignor to G. G. Armor, Baltimore, Md. Trolley-pole	611,367	Sept. 27	2246	519	84	1926
Meredith, Edwin K., Batavia, Ill. Apparatus for filtering and separating oil from water	599,720	Mar. 1	74	17	82	1230
Mereness, Norman, Seward, N. Y. Automatic vending-machine	615,359	Dec. 6	255	59, 60	85	1463
Mereshkowsky, Sergius, St. Petersburg, Russia. Culture apparatus	614,121	Nov. 15	1572	359	85	960
Mergenthaler Linotype Company. (See Bates, George A., assignor.)				360		
Mergenthaler Linotype Company. (See Fisher and Reynolds, assignors.)						
Mergenthaler Linotype Company. (See Girod, Ernest, assignor.)						
Mergenthaler Linotype Company. (See Ireland, Charles L., assignor.)						
Mergenthaler Linotype Company. (See Ireland and Wich, assignors.)						
Mergenthaler Linotype Company. (See Keller, Thomas H., assignor.)						
Mergenthaler Linotype Company. (See Lewis, Pearce, and Holliwell, assignors.)						
Mergenthaler Linotype Company. (See Lincoln, George E., assignor.)						
Mergenthaler Linotype Company. (See Lock and Place, assignors.)						
Mergenthaler Linotype Company. (See Mergenthaler, Ottmar, assignor.)						
Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)						
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)						
Mergenthaler Linotype Company. (See Sigurdsson, Oddur V., assignor.)						
Mergenthaler Linotype Company. (See Wich, Ferdinand J., assignor.)						
Mergenthaler Linotype Company. (See Wich and Ireland, assignors.)						
Mergenthaler, Marie H., Albany, N. Y. Covering for hydrant-pipes	616,127	Dec. 20	1674	390	85	1769
Mergenthaler, Ottmar, Baltimore, Md., assignor, by mesne assignments, to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	614,229	Nov. 15	1770	406	85	997
Mergenthaler, Ottmar, Baltimore, Md., assignor, by mesne assignments, to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	614,230	Nov. 15	1777	407	85	998
Merigan, James, Philadelphia, Pa. Bottle	611,368	Sept. 27	2247	408	84	1927
Merker, Mont C., Philadelphia, Pa. Dental chair	605,255	June 7	376	519	83	1422
Merkle, William, Oakland, Cal. Bread-cutting knife	608,337	Aug. 2	312	85, 86	84	718
Merrell, Willard H., Oneida, N. Y. Drill-chuck	608,061	July 26	2845	68	84	607
Merriam, Iram Z., Whitewater, Wis. Wheeled vehicle	609,894	Aug. 30	3185	607	84	1334
Merriam, Lyman W., assignor of one-half to G. O. Allen, Fitchburg, Mass. Non-refillable bottle	599,185	Feb. 15	1894	746	82	994
Merriam, Lyman W., assignor of two-thirds to H. C. Deane and G. O. Allen, Fitchburg, Mass. Machine for manufacturing metallic balls	596,899	Jan. 4	769	448	82	150
Merriam Manufacturing Company. (See Hubbard, Frederic P., assignor.)				181		
Merriam, Matthew H., Lexington, Mass. Perforating-machine	610,746	Sept. 13	1077	248	84	1666
Merrick, Frank A., Auburndale, Mass., assignor to Steel Motor Company, Johnstown, Pa. Electric controller	599,186	Feb. 15	1896	448	82	995
Merrill, Alva M., <i>et al.</i> (See Merrill, Nathaniel C., assignor.)						
Merrill, E. Delmont, <i>et al.</i> (See Toward, Charles P., assignor.)						
Merrill, Edward W., Jr., Brooklyn, N. Y. Drop-hammer	601,060	Mar. 22	2561	584	82	1759
Merrill, Frank H., Plainfield, N. J. Displacement-pump	609,943	Aug. 30	3268	763	84	1350
Merrill, Freeman C., Paris, Me. Plow	611,456	Sept. 27	2421	556	84	1958
Merrill, Henry E., assignor to E. H. Merrill Company, Akron, Ohio. Compound for making porous bodies	613,907	Nov. 8	1210	70	85	868
Merrill, Jesse, Kanopolis, Kans. Gate	597,997	Jan. 25	2659	621	82	566
Merrill, John J., Alfred, N. Y. Machine for pressing clay products	607,870	July 26	2497	530	84	537
Merrill, Lemuel, Melrose, Mass. Seam-ripper	608,206	Aug. 2	70	19	84	669
Merrill, Nathaniel C. (See Hoxie, Albert N., assignor.)						
Merrill, Nathaniel C., New York, N. Y., assignor of two-thirds to A. M. Merrill and W. J. Howlett, Boston, Mass. Door-check	615,034	Nov. 29	3285	756	85	1314
Merrill, Parker, St. Louis, Mich. Railway automatic signaling device	600,588	Mar. 15	1776	406	82	1596
Merrill, Phineas T., Boston, Mass. Powder-distributing apparatus	609,827	Aug. 30	3077	717	84	1313
Merrill, William. (See Danielsen and Merrill.)						
Merrill, William E. T., assignor to M. S. Lantz, Philadelphia, Pa. Lock	599,245	Feb. 15	1993	473	83	1014
Merriman, Francis E., Boston, assignor to H. N. Kingsbury, Westfield, Mass. Cutting-tool	605,582	June 14	951	221	83	1556
Merritt, Andrew A. (See Merritt, Otis J., assignor.)						
Merritt, Francis L., London, assignor of three-eighths to H. A. Naismith, Croydon, England. Internal-combustion engine	605,583	June 14	954	221	83	1556
Merritt, Frederick R., Prairie City, Oreg. Air-ship	615,569	Dec. 6	654	222	85	1539
Merritt, George W., Millbrook, N. Y. Waste or sink pipe cleaner	608,207	Aug. 2	71	150	84	669
Merritt, Hamilton L., Somerville, Mass. Tire	609,157	Aug. 16	1852	440	84	1042



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Merritt, James M., and B. F. Goodrich, Homer, Mich.; said Merritt assignor to said Goodrich. Hydrocarbon-burner	605,554	June 14	893	208	83	1545
Merritt, James S., Philadelphia, Pa. Ceiling or wall construction	599,721	Mar. 1	76	17	82	1230
Merritt, Jesse L., and D. A. Lenox, Salem, Mo. Vehicle-top	612,136	Oct. 11	966	233	85	199
Merritt, Louis G. (See Emerson and Merritt.)						
Merritt, Mortimer G., and F. L. Groff, assignors to Rome Metallic Bedstead Company, Rome, N. Y. Caster	606,354	June 28	2469	573	83	1878
Merritt, Otis J., assignor of one-half to A. A. Merritt, Seneaguateen, Idaho. Animal-destructor	605,890	June 21	1563	360	83	1688
Merry, Benjamin P., Stryker, Ohio. Calf-weaner	610,944	Sept. 20	1435	330	84	1754
Merry, George G. S., Boston, Mass., assignor to Automatic Weighing, Lifting and Grip Machine Company, Portland, Me. Coin-controlled weighing-scale and grip and lifting machine	610,766	Sept. 13	1122	257 258	84	1675
Mersch, Paul. (See Weber, Edgard, assignor.)						
Mersereau, Charles H. (See Chase, John, assignor.)						
Mersereau, Charles H., assignor to Inventor's Novelty Manufacturing Company, Paterson, N. J. Trunk	606,892	July 5	468	100	84	92
Mersereau, Charles H., assignor to Inventor's Novelty Manufacturing Company, Paterson, N. J. Folding sample-case	606,893	July 5	469	101	84	93
Mersereau, Charles H., assignor to Inventor's Novelty Manufacturing Company, Paterson, N. J. Folding sample-case	606,894	July 5	471	101	84	93
Mersfelder, William L., Cincinnati, Ohio. Mechanism for burning hydrocarbons	607,694	July 19	2143	451	84	450
Mershon, Ralph D., Colorado Springs, Colo. Insulator	605,256	June 7	380	86	83	1423
Mertes, Joseph P., Janesville, Wis. Apparatus for reducing metal	612,593	Oct. 18	1761	416	85	361
Mertz, Edgar F. (See Grimshaw, Henry, assignor.)						
Mertz, Lewis, Geneseo, Ill. Lamp-chimney holder	608,615	Aug. 9	797	184	84	832
Merwarth, Charles H., South Bethlehem, Pa. Steam-packing	605,891	June 21	1564	360	83	1689
Mesch, Wilhelm, Magdeburg, Germany. Manufacturing stone and iron ceilings, floors, and walls	600,334	Mar. 8	1310	300	82	1489
Meserve, George W., Boston, Mass. Pipe-coupling and patch	607,517	July 19	1822	379	84	392
Meserve, George W., Boston, Mass. Plasterer's steel angle-tie	608,888	Aug. 9	1909	305	84	928
Messenger, Annie, Saltburn, England. Chimney-cleaner	606,567	June 28	2851	657	83	1955
Messick, Frank, Bloomington, Ill. Gasolene-purifier	603,960	May 10	1294	295	83	868
Messick, Joseph S., Philadelphia, Pa., assignor to R. H. T. Wilson, Milton, Del. Sash-lifter	612,860	Oct. 25	2279	543	85	479
Messenger, William T., Boston, Mass. Fastening device	604,408	May 24	2179	488	83	1092
Messner, George R. (See Aussenheimer, Jacob F., assignor.)						
Mesta, George (See Kepp and Mesta.)						
Mesta, George, Pittsburg, Pa. Motor in apparatus for pickling and washing metal plates	602,686	Apr. 19	1905	433 434	83	391
Mestler, William R., Rochester, N. Y. Stay and lacing for corsets, &c	601,446	Mar. 29	3255	736	82	1918
Metallic Insulation Company. (See Clegg, James, assignor.)						
Metcalf, Henry B. (See Eldred, Horace H., assignor.)						
Metcalf, John, <i>et al.</i> (See Vermilyea, Eugene, assignor.)						
Metcalf, Warren, Skippersville, Ala. Automatic bicycle-pump	604,625	May 24	2573	586	83	1165
Metcalf, William B., Jr., Auburn, Nebr. Nut-lock	607,622	July 19	2017	419	84	428
Metcalf, William G., Dayton, Ohio. Machine for attaching tags to fabrics	607,119	July 12	910	197 198	84	195
Metcalfe, Charles S., Silver City, N. Mex. Wrench	611,499	Sept. 27	2498	576	84	1973
Metcalfe, Sanford D., Brocton, Ill. End-gate	602,138	Apr. 12	943	206	83	190
Methot, Louis T. E., Boston, Mass. Dental engine	600,924	Mar. 22	2336	531	82	1716
Methven, Daniel and H. H., Antioch, Cal. Almond huller and separator	612,744	Oct. 18	2042	485 486	85	415
Methven, Harry H. (See Methven, Daniel and H. H.)						
Metropolitan Filter Company (See Tyden, Emil, assignor.)						
Metropolitan Register Company. (See Hess, Edward B., assignor.)						
Metropolitan Register Company. (See Hess and Stoughton, assignors.)						
Mettauer, John, <i>et al.</i> (See Klemm, Hermann A., assignor.)						
Metternich, Andrew, Newark, N. J. Headlight-reflector	615,490	Dec. 6	506	117	85	1510
Metz, Charles H., and T. Curley, Waltham, Mass. Crank-pedal	604,919	May 31	3091	710	83	1283
Metzger, Jacob J., Cleveland, Ohio. Bicycle-canopy	603,916	May 10	1226	278	83	855
Metzler, Jonas. (See Leatherman and Metzler.)						
Metzrath, William, Highland Park, N. J. Bicycle-support	606,487	June 28	2697	621	83	1924
Meumann, Hermann G., Bessemer, Ala. Velocipede	598,228	Feb. 1	278	62, 63	82	655
Meyenberg, Max, <i>et al.</i> (See Reznicek, Anton, assignor.)						
Meyer, Albert A. (See Keller, Henry, assignor.)						
Meyer, Alfred, Zwickau, Germany. Wheel for vehicles	607,518	July 19	1823	379	84	392
Meyer, Berthold E., W. I. Bodine, and C. E. Rule, Springfield, Mo. Refrigerator-car	601,522	Mar. 29	3380	766	82	1945
Meyer, Carl, Dortmund, Germany. Blank for manufacturing hollow bodies	598,800	Feb. 8	1241	300	82	855
Meyer & Cie, C. A. (See Steiger, Eugen, assignor.)						
Meyer, Daniel, Paris, France. Incandescent gas-burner	597,011	Jan. 11	970	230	82	205
Meyer, Emma, Philadelphia, Pa. Game apparatus	616,244	Dec. 20	1921	444	85	1819
Meyer, Firm of H. C., Jr. (See Dickhuth, Max P. O., assignor.)						
Meyer, Frederick L., Brooklyn, N. Y. Bottle	604,062	May 17	1534	345	83	948
Meyer, Frederick M., Jamestown, N. Y. Wood-bending device	609,691	Aug. 23	2847	666	84	1255
Meyer, George J., Buffalo, N. Y. Pneumatic malting apparatus	608,338	Aug. 2	313	69	84	718
Meyer, John E. P., <i>et al.</i> (See McCamey, Charles M., assignor.)						
Meyer, John H., Philadelphia, Pa. Rotary engine	601,854	Apr. 5	459	93	83	85
Meyer, Joseph P., Rochester, N. Y. Photographic camera	598,569	Feb. 8	863	207	82	785
Meyer, Louis F., Richmond, Va. Girder-rail-groove cleaner	611,921	Oct. 4	565	137	85	112
Meyer, Robert, Philadelphia, Pa. Oxidizing-machine	609,360	Aug. 16	2223	526	84	1117
Meyer-Sniffen Company. (See Dickinson, Henri D., assignor.)						
Meyer, Svend M., Brooklyn, N. Y. Electrical lighting device for kerosene or other burn-ers	604,626	May 24	2574	586 587	83	1165
Meyer, Wilhelm, Chicago, Ill. Counter-battery	609,994	Aug. 30	3377	784	84	1372
Meyer, William C. (See French and Meyer.)						
Meyer, William C., Emma, Mo. Corn-planter attachment	616,795	Dec. 27	2947	686	85	2039
Meyer, William C., and Z. T. French, Boston, Mass. Sole channeling and trimming machine	600,883	Mar. 22	2268	518	82	1703
Meyers, Frederick, Brooklyn, N. Y. Hook and eye	600,087	Mar. 1	846	194	82	1380
Meyersieck, Charles F. (See Bassford, Isaac F., assignor.)						
Meyrick, Joseph, Jr., Louisville, Ky. Ball-bearing device	603,570	May 3	596	132	83	717
Meyrick, William C. (See Pope and Meyrick.)						
Meyrowitz, Emil B., assignor to Meyrowitz Manufacturing Company, Ridgefield, N. J. Saddle for spectacles	600,496	Mar. 8	1613	368	82	1547
Meyrowitz, Emil B., assignor to Meyrowitz Manufacturing Company, Ridgefield, N. J. Adjustable support for optical instruments	603,148	Apr. 26	2703	613 614	83	559



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Meyrowitz Manufacturing Company. (See Meyrowitz, Emil B., assignor.)						
Meyrowitz Manufacturing Company. (See Vetter, Alexander F., assignor.)						
Miami Cycle and Manufacturing Company. (See Burnham, Franklin P., assignor.)						
Michael, Henry, Hamburg, N. Y. Horse-detaching device	611,738	Oct. 4	261	62	85	53
Michael, Ollie P. W. (See Hariman, George V., assignor.)						
Michael, Oliver S., Waldo, Kans. Lifting device for well-tubing	598,527	Feb. 8	790	189	82	769
Michael, Willie E., Enterprise, W. Va. Safety-pin	601,666	Apr. 5	74	15	83	15
Michaelsen, Niels. (See Dowlen and Michaelsen.)						
Michaelson, Otto H., Charleston, W. Va. Incandescent electric lamp	605,498	June 14	809	187	83	1529
Michalk, Oswald, Brooklyn, N. Y. Gilders' leaf and making same	597,012	Jan. 11	971		82	205
Michalk, Wilhelm, Deuben, Germany. Lubricator	604,409	May 24	2181	488	83	1093
Michaud, Julia A. (See Jones, William E., assignor.)						
Micheals, Talbert R., Monongahela City, Pa. Glass-working machinery	616,245	Dec. 20	1922	445	85	1819
Michel, Firmin, Philadelphia, Pa. Beef-roaster	601,812	Apr. 5	364	75	83	69
Michelson, Joseph M. (See Monroe, Charles T., assignor.)						
Michener, Elwood H., assignor to Acme Staple Co., Philadelphia, Pa. Staple-driving machine	608,699	Aug. 9	952	219	84	863
Michigan Stove Company. (See Keep, William J., assignor.)						
Michigan Stove Company. (See Keep and Robinson, assignors.)						
Michon, Eugene, Grand Chenier, La. Planter	601,897	Apr. 5	529	109	83	100
Micrometer Balance Scale Company. (See Mattice, Charles H., assignor.)						
Middaugh, Asa F., A. T. Hoevet, and F. T. Anderson, assignors to Economy Broom Company, Denver, Colo. Combination whisk-broom. (Reissue)	11,688	Aug. 23	2952	690	84	1275
Middendorf, Joseph H. (See Shell, Leonidas R., assignor.)						
Middlekauff, Ellsworth D., San Francisco, Cal. Automatic combination-funnel	596,606	Jan. 4	263	58	82	52
Middlekauff, Ellsworth D., assignor to C. F. G. La Violette, San Francisco, Cal. Lemon-squeezer	612,362	Oct. 11	1366	331	85	273
Middlekauff, Ellsworth D., assignor to C. S. Young, San Francisco, Cal., and E. Williams, Empire City, Nev. Lemon-squeezer	599,856	Mar. 1	338	77	82	1277
Middleton, William S. (See Billing, Partridge, and Middleton.)						
Midgley, Thomas, assignor of one-half to Columbus Bicycle Company, Columbus, Ohio. Crank-axle and sprocket for bicycles	596,523	Jan. 4	110	25	82	23
Midgley, Thomas, assignor of one-half to Columbus Bicycle Company, Columbus, Ohio. Bicycle-bearing	596,524	Jan. 4	111	25	82	23
Midgley, Thomas, assignor of one-half to Columbus Bicycle Company, Columbus, Ohio. Crank-hanger for bicycles	603,140	Apr. 26	2704	614	83	559
Midgley, Thomas, and L. Fink, assignors of one-half to Columbus Bicycle Company, Columbus, Ohio. Brazing or soldering metals	611,922	Oct. 4	567	138	85	112
Midland Foundry and Machine Works Company. (See Walker, Thomas C., assignor.)						
Midson, James D., North Botany, and F. W. Schroeder, Newtown, assignors to H. Dixon, Sydney, New South Wales. Stopping device for preventing refilling bottles	597,998	Jan. 25	2660	621	82	566
Miehle Printing Press and Manufacturing Company. (See Miehle, Robert, assignor.)						
Miehle Printing Press and Manufacturing Company. (See Owen, Charles F., assignor.)						
Miehle, Robert, Chicago, Ill. Velocipede	609,828	Aug. 30	3078	718	84	1313
Miehle, Robert, Chicago, Ill. Velocipede	616,481	Dec. 27	2365	549	85	1928
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism	610,491	Sept. 6	653	147 148	84	1564
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press	611,923	Oct. 4	568	138	85	112
Miehle, Robert, and J. W. Mansfield, Chicago, Ill. Paper-feeding machine	606,975	July 5	584	129	84	116
Miers, Elijah M., Palmerston, Canada. Wheel-hub	610,629	Sept. 13	892	204 205	84	1629
Miesler, Julius, Vienna, Austria-Hungary, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Circuit arrangement for electrical apparatus	607,760	July 19	2244	474	84	471
Mifflin, George W. (See Crossley, William H., assignor.)						
Mikesell, Jacob R., Charlotte, Mich. Axle-bearing and hub	605,499	June 14	810	187 188	83	1529
Milam, John W. (See Holmes and Milam.)						
Milburn, Herschel C., Whiteville, La. Agricultural implement	602,033	Apr. 5	771	167	83	146
Mildt, Gustav A. F., Long Island City, N. Y. Baking-pan	599,246	Feb. 15	1994	474	82	1014
Miles, Alfred S., New York, N. Y. Machine for dragging bristles	612,524	Oct. 18	1633	390	85	338
Miles, David B., Blackwater, Mo. Cultivator	604,773	May 31	2844	650	83	1235
Miles, Frederick B., Philadelphia, Pa. Vertical planer	601,580	Mar. 29	3464	788 789	82	1962
Miles, H. D., et al. (See Williston, Benjamin F., assignor.)						
Miles, John S., Dayton, Ohio. Filter	614,209	Nov. 15	1726	396	85	990
Miles, Samuel A., Chicago, Ill. Apparatus for carbureting air	601,061	Mar. 22	2562	585	82	1759
Miles, William C., Huntington, Ind. Rotary paper-cutting knife	610,144	Aug. 30	3608	838	84	1419
Miles, William R., Danbury, Conn. Turn-table	615,295	Dec. 6	133	35	85	1439
Miley, Frank S., assignor of one-half to C. H. Sanders, Forrest City, Ark. Extension-ladder	598,615	Feb. 8	931	224	82	798
Millar, Adam, Glasgow, Scotland. Insoluble gelatin thread or filament	611,814	Oct. 4	386	92	85	77
Millar, John. (See Salisbury, Levi E., assignor.)						
Millar, John F., Richwood, and W. N. Robinson, Goshen, Ohio. Gate	601,581	Mar. 29	3467	789	82	1963
Millar, Orville I., Augusta, Mich. Transplanter implement	607,519	July 19	1824	380	84	392
Millar, Samuel, and C. E. Miller, Glasgow, Scotland. Treating and tanning hides or skins	614,057	Nov. 8	1442		85	914
Millard, Frank B., assignor of one-half to W. F. Ward, Montour, Iowa. Self-rocking cradle	597,168	Jan. 11	1244	292	82	258
Millen, George, assignor of one-half to L. Bergstrom, San Antonio, Tex. Wheel	605,112	June 7	76	22	83	1367
Millen, Lincoln H., assignor of one-half to S. S. Sims, Beatrice, Nebr. Gas-engine	612,047	Oct. 11	816	200 201	85	170
Millen, Thomas, New York, N. Y. Sign	608,616	Aug. 9	798	184	84	832
Millen, Thomas, New York, N. Y. Car-step lifter	608,617	Aug. 9	799	184	84	832
Millen, Thomas, New York, N. Y. Car-step lifter	608,618	Aug. 9	800	185	81	833
Miller, Agnus M. L., et al. (See Thoma, Julius L., assignor.)						
Miller, Alfred N., Williamsport, Pa. Machine for cutting soles	599,722	Mar. 1	77	18	82	1231
Miller, Andrew J., Metamora, Ind. Drying apparatus	605,736	June 14	1232	255	83	1607
Miller, August, Niles, Mich. Machine for removing tires from vehicle-wheels	598,736	Feb. 8	1149	276	82	837
Miller, Augustus P., Baltimore, assignor of one-half to C. P. Laurenson, Towson, Md. Device for carrying off cinders and smoke	602,865	Apr. 26	2209	500	83	465
Miller, Benjamin M., Crawfordsville, Ind. Barbed-wire machine	608,471	Aug. 2	537	120 121	84	762
Miller, Caroline E., Minneapolis, Minn. Skirt-guard	600,010	Mar. 1	602	139	82	1327
Miller, Charles. (See Earhart and Miller.)						
Miller, Charles E. (See Millar and Miller.)						
Miller, Charles G., deceased, Hartford, Conn.; E. C. Farnam administratrix. Tank-valve-controlling means	611,435	Sept. 27	2386	547	84	1950



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Miller, Charles W. (See Price, Elmer, assignor.)						
Miller, Charles W. (See Taylor, Richard, assignor.)						
Miller, Chris. (See Crooks, James E., assignor.)						
Miller, Conrad, Leadville, Colo. Nut-lock	611,815	Oct. 4	387	93	85	77
Miller, David, Garden City, Mo. Gate	603,793	May 10	993	222	83	810
Miller, Edward, New York, N. Y. Fish-net	614,879	Nov. 29	2968	681	85	1251
Miller, Eli J., York, Pa. Cutter-guide	597,013	Jan. 11	972	230	82	205
Miller, Elijah H. (See Petit and Miller.)						
Miller, Eugene. <i>et al.</i> (See Davis, John A., assignor.)						
Miller, Frank O., Youngstown, Ohio. Self-dumping machine for blast-furnaces, &c	615,730	Dec. 13	937	218	85	1609
Miller, Frank R., Springfield, Ill. Knife-sharpener	602,994	Apr. 26	2437	556	83	507
Miller, Frank W. (See Coppock and Miller.)						
Miller, Franklin. (See Rittenhouse and Miller.)						
Miller, Frederic S., New York, N. Y. Fireproof partition	612,594	Oct. 18	1763	417	85	362
Miller, Frederick W., and W. C. Willis, De Witt, Ark. Pea-thresher	600,794	Mar. 15	2116	483 484	82	1662
Miller, George, <i>et al.</i> (See Fergusson, Alan R., assignor.)						
Miller, George, <i>et al.</i> (See Moore, William H., assignor.)						
Miller, George B., assignor to American Ring Company, Waterbury, Conn. Eyelet	605,892	June 21	1566	360	83	1689
Miller, George E. (See Karst, Bernard W., assignor.)						
Miller, George E., assignor of one-half to J. W. Albright, Middletown, Pa. Recessing-tool for lathes	605,184	June 7	227	55	83	1394
Miller, George H., Norwalk, Ohio. Spacer-bar for wire fences	603,772	May 10	956	214	83	802
Miller, George J., Kenton, Ohio. Secondary battery	610,190	Sept. 6	71	15	84	1454
Miller, George W. (See McPherson, Frank G., assignor.)						
Miller, George W., McKee's Rocks, Pa. Convertible dumping-car	600,694	Mar. 15	1955	446	82	1630
Miller, Gustof J., assignor of one-half to J. A. Watterworth and H. Fee, Duluth, Minn. Excavating-machine	609,449	Aug. 23	2387	561 562	84	1168
Miller, Henry, Hannibal, Mo. Car-replacer	611,072	Sept. 20	1662	381	84	1796
Miller, Henry F., <i>et al.</i> (See Fergusson, Alan R., assignor.)						
Miller, Henry F., <i>et al.</i> (See Moore, William H., assignor.)						
Miller, Hiram S., Stamford, Conn. Bicycle-wheel-guard cleaner	611,699	Oct. 4	194	45	85	41
Miller, Horace E., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Brush	605,185	June 7	229	55	83	1394
Miller, Horace E., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Die for making frames from sheets of celluloid, &c	610,630	Sept. 13	895	205 206	84	1629
Miller, Isaac N., and J. B. Moss, St. Joseph, Mo. Suppository	604,063	May 17	1534	345	83	948
Miller, J. C. (See Hill, Wilford A., assignor.)						
Miller, Jacob, Goblesville, Ind. Garden implement	611,641	Oct. 4	89	21	85	20
Miller, Jacob W. (See Huber and Miller.)						
Miller, Jacob W., and E. Huber, Marion, Ohio. Pneumatic straw-stacker	610,659	Sept. 13	938	218	84	1638
Miller, James A., New Haven, Conn. Fortification	603,451	May 3	359	81, 82	83	669
Miller, James A., New Haven, Conn. Heater	607,660	July 19	2091	436	84	441
Miller, James A., New Haven, Conn. Radiator	603,889	Aug. 9	1309	305 306	84	928
Miller, James A., Garrettsville, Ohio. Lantern-holder	614,880	Nov. 29	2969	682	85	1252
Miller, James H. (See Cooper, Alfred W., assignor.)						
Miller, James H., <i>et al.</i> (See Stoner, Clinton S., assignor.)						
Miller, James S., Reading, Pa. Apparatus for purifying sewage-water	603,221	Apr. 26	2813	642 643	83	579
Miller, Jannet E., Hinton, W. Va. Curtain-pole ring	605,967	June 21	1719	394	83	1716
Miller, Jeremiah, Cleveland, Ohio. Tube-cutter	605,257	June 7	381	86	83	1423
Miller, Jesse, Broadway, Ohio. Washing-machine	610,996	Sept. 20	1535	352	84	1772
Miller, John B. (See Foster and Miller.)						
Miller, John B., Lowell, Mass. Boot or shoe polishing device	615,566	Dec. 6	651	149	85	1539
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Wick-adjusting device	596,783	Jan. 4	583	135	82	112
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Bicycle-lantern	599,149	Feb. 15	1837	435 436	82	985
Miller, John C., assignor to Miller Manufacturing Company, Torrington, Conn. Extension-standard	613,457	Nov. 1	439	100	85	700
Miller, John C., assignor to Miller Manufacturing Company, Torrington, Conn. Wick-adjusting device for lamps	613,458	Nov. 1	441	101	85	700
Miller, John F., assignor of three-fourths to J. C. Hamilton, N. J. Clodfelter, and J. L. Green, Indianapolis, Ind. Plow	606,895	July 5	472	101	84	93
Miller, John J. A., Denver, Colo. Double-grip sliding-jaw wrench	616,579	Dec. 27	2536	587	85	1958
Miller, Joseph A., Providence, R. I. Steam-generator	615,458	Dec. 6	450	106	85	1499
Miller, Joseph M., <i>et al.</i> (See Morris, Thomas E., assignor.)						
Miller, Joseph M., Chicago, Ill. Fire-extinguisher	607,591	July 19	1961	407	84	417
Miller, Lee A., Milwaukee, Wis., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Bobbin or under-thread case for sewing-machines	601,837	Apr. 5	405	85	83	76
Miller, Lewis, Akron, Ohio. Harvester guard-finger	601,447	Mar. 29	3256	736	82	1919
Miller, Llewellyn. (See Beaudette and Miller.)						
Miller Lock Company. (See Soley, Frank, assignor.)						
Miller Lock Company. (See Watrous, Vanderbilt, assignor.)						
Miller, Louis E., assignor of one-half to W., Jr., and R. H. Lacy, Los Angeles, Cal. Rivet-sticking machine	602,139	Apr. 12	944	206 207	83	191
Miller, Louis L., Newport, Ky. Trace-trimmer	611,181	Sept. 20	1868	431	84	1836
Miller, Louis S., New York N. Y. Scaffold-bracket	609,287	Aug. 16	2105	498	84	1094
Miller, Mahlon D., St. Paul, Minn., assignor to United States Flax Fibre Company, of New Jersey. Method of and apparatus for cleaning waste tow	599,342	Feb. 22	2188	520	82	1072
Miller Manufacturing Company. (See Miller, John C., assignor.)						
Miller, Margaret B., Malone, N. Y. Piacket-fastener	616,720	Dec. 27	2829	655	85	2016
Miller, Martin, Tiffin, Ohio. Land roller and pulverizer	607,186	July 12	1035	224	84	217
Miller, Mathias A., Auburn, Ind. Hollow grate-bar	613,289	Nov. 1	118	28	85	639
Miller, Oliver A. (See Locke, Howard G., assignor.)						
Miller, Oliver A. (See Luce, Don C., assignor.)						
Miller, Oliver A. (See Saunders, Charles H., assignor.)						
Miller, Oliver A., Brockton, Mass. Last	597,779	Jan. 25	2284	534	82	494
Miller, Oscar M., Benedict, Nebr. Combination-wrench	598,828	Feb. 8	791	190	82	769
Miller, Percival, Carbondale, Pa. Display-stand	606,842	July 5	390	83	84	78
Miller, Peter, Ypsilanti, Mich. Device for retaining heat in locomotive-boilers	607,066	July 12	804	175	84	175
Miller, Reuben, Jr., <i>et al.</i> (See McDonald, Robert A., assignor.)						
Miller, Richard, Appleton, Wis. Umbrella-support	602,662	Apr. 19	1865	424	83	383
Miller, Robert D., Warsaw, N. Y. Brine-evaporator	614,739	Nov. 22	2711	617 618	85	1186



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Miller, Robert J., Placerville, Cal. Ratchet-wrench	600,158	Mar. 8	1025	230	82	1434
Miller, Robert J., Benicia, Cal. Pipe-wrench	612,525	Oct. 18	1635	390	85	339
Miller, Samuel F., Bridgewater, Va. Flood-fence	607,568	July 19	1919	397	84	408
Miller, Samuel H., Nashville, Tenn. Hog-nose cutter	610,911	Sept. 20	1380	316	84	1743
Miller, Sebastian N., Piedmont, W. Va. Paper-making machine	603,197	Apr. 26	2778	633	83	572
Miller & Son, H. F. (See Schier, Oscar B., assignor.)						
Miller, Thomas H. (See Newstrom and Miller.)						
Miller, Thomas M., assignor of one-half to J. W. Lovatt, Bethlehem, Pa. Elastic horseshoe	602,236	Apr. 12	1121	246	83	225
Miller, Thomas S. (See Dickinson, Joseph H., assignor.)						
Miller, Thomas S., South Orange, N. J. Towing canal-boats, &c.	600,925	Mar. 22	2339	531	82	1716
Miller, Thomas S., South Orange, N. J. Towing canal-boats, &c.	601,353	Mar. 29	3092	698	82	1888
Miller, Thomas S., South Orange, N. J. Conveying apparatus	601,756	Apr. 5	256	50, 51	83	49
Miller, Thomas S., South Orange, N. J. Rope-driving machinery	610,912	Sept. 20	1382	316 317	84	1743
Miller, Thomas W., assignor to P. B. Colquhoun, Sydney, New South Wales. Railway fog signaling apparatus	596,988	Jan. 4	843	199	82	164
Miller, Thompson, and F. Davis, Philadelphia, Pa. Flagstaff-holder	612,048	Oct. 11	819	201	85	170
Miller, Walter H. B., Melbourne, Victoria. Clothes-line-prop head	607,259	July 12	1175	251	84	242
Miller, Ward A., Butler, Pa. Self-leveling table	600,481	Mar. 8	1560	359	82	1535
Miller, William E., Victor, Colo. Tie-plate for railways	597,084	Jan. 11	1107	261	82	232
Miller, William G., Cambridge, Mass. Hoisting apparatus	602,603	Apr. 19	1746	398	83	360
Miller, William H., New York, N. Y. Spring-bottom for chairs and upholstery	608,062	July 26	2846	607	84	607
Miller, William J., Boston, Mass. Hot-water heating apparatus	610,685	Sept. 13	977	227	84	1646
Miller, William L., Pittsburg, Pa. Automatic water-heater	606,068	June 21	1908	439	83	1750
Miller, William L., Pittsburg, Pa. Automatic water-heater	608,339	Aug. 2	314	69, 70	84	718
Miller, William S. (See Hamrick and Miller.)						
Miller's Falls Company. (See Leland, John A., assignor.)						
Millett & Brosnihan. (See Brosnihan, Thomas H., assignor.)						
Millett & Brosnihan. (See Millett, Frank A., assignor.)						
Millett, Frank A., <i>et al.</i> (See Brosnihan, Thomas H., assignor.)						
Millett, Frank A., assignor to Millett & Brosnihan, Livermore Falls, Me. Device for leveling horses' feet	602,952	Apr. 26	2371	540 541	83	496
Millett, Joshua H. (See Bosworth and Millett.)						
Millican, William, <i>et al.</i> (See Russell, William, assignor.)						
Milligan, Charles, <i>et al.</i> (See Patton, Oliver C., assignor.)						
Milligan, Charles J., Chicago, Ill. Rotary engine	610,191	Sept. 6	72	15	84	1454
Milligan, John C., New York, N. Y. Vertically-corrugated can	616,246	Dec. 20	1925	446	85	1820
Milligan, Robert E., assignor to H. B. Anderson, New York, N. Y. Purifying liquids	614,617	Nov. 22	2488	568	85	1143
Milligan, Stephen W., Brooklyn, N. Y. Dust-pan	604,064	May 17	1535	345	83	948
Milligan, William F., Ridgeville, Ind. Fence-post	609,829	Aug. 30	3079	718	84	1313
Millikan, W. F., <i>et al.</i> (See Wilder, Norman B., assignor.)						
Millington, Charles, Clifford, England. Tooth-powder box	603,731	May 10	880	195	83	788
Millot, Benoit. (See Millot, Joseph and B.)						
Millot, Joseph and B., Gray, France. Driving-gear for motor-vehicles	615,360	Dec. 6	258	60	85	1464
Mills, Henry D., Fish's Eddy, N. Y. Bicycle-brake	616,342	Dec. 20	2092	487	85	1853
Mills, Henry G., Milwaukee, Wis. Arc-lamp globe	612,049	Oct. 11	820	201	85	171
Mills, Henry G., Milwaukee, Wis. Lantern	614,485	Nov. 22	2266	518	85	1104
Mills, Howard W., <i>et al.</i> (See Van Fleet, Charles G., assignor.)						
Mills, James, assignor of one-half to A. S. Smith, Cincinnati, Ohio. Crank-planer and metal-shaper	614,967	Nov. 29	3150	724	85	1289
Mills, James M. (See Mills, Samuel, assignor.)						
Mills, Mortimer B., assignor to Mills Novelty Company, Chicago, Ill. Bogus-coin detector for coin-operated vending-machines	613,844	Nov. 8	1103	251 252	85	847
Mills, Mortimer B., assignor to Mills Novelty Company, Chicago, Ill. Coin-operated vending-machine	614,618	Nov. 22	2490	568 569	85	1143
Mills Novelty Company. (See Mills, Mortimer B., assignor.)						
Mills, Robert C. (See Twomey and Mills.)						
Mills, Samuel, assignor of one-half to J. M. Mills, Buckeye City, Ohio. Railway-signal	603,150	Apr. 26	2704	614	83	559
Mills, Stephen G., Wichita, Kans. Churn	611,500	Sept. 27	2499	577	84	1973
Mills, Thomas M. (See Chaplen and Mills.)						
Mills, William H., Westfield, N. Y. Rail-joint	608,208	Aug. 2	72	19	84	669
Mills, William R., Jackson, Mich. Device for preventing smoke in boiler-furnaces	613,290	Nov. 1	120	28	85	640
Millsbaugh, William H., Pulteney, N. Y., assignor of one-half to Deming Company, Salem, Ohio. Cleansing apparatus for paper-making machines	596,939	Jan. 4	845	199	82	165
Millsbaugh, William H., Pulteney, N. Y., assignor of one-half to Deming Company, Salem, Ohio. Cleansing apparatus for paper-making machines	596,940	Jan. 4	847	199	82	165
Millsbaugh, William H., Pulteney, N. Y., assignor of one-half to Deming Company, Salem, Ohio. Cleansing apparatus for paper-making machines	596,941	Jan. 4	849	200	82	165
Millstine, Herman, Pittsburg, Pa. Water-filter	599,971	Mar. 1	545	125	82	1316
Milne, James S., and A. L. Mott, Dubois, Pa. Meat-tenderer	611,789	Oct. 4	339	81	85	69
Milne, Oswald I., London, England. Apparatus for making fly-catchers	610,192	Sept. 6	75	15	84	1455
Milne, Samuel, Newington, assignor of one-half to D. N. Bertram, Edinburgh, Scotland. Driving of paper-making machines	615,192	Nov. 29	3563	820	85	1366
Milner, Albert R., assignor to A. R. Milner Seating Company, Canton, Ohio. Store or counter stool	597,686	Jan. 18	2117	495	82	444
Milner, Albert R., Canal Dover, assignor to A. R. Milner Seating Company, Canton, Ohio. Store-stool	607,546	July 19	1877	390	84	402
Milner, George E., Chicago, Ill. Insole-reinforcing machine	609,110	Aug. 16	1776	422	84	1028
Milner, William, and W. Wilson, assignors to Speed Indicator Company, Limited, London, England. Speed-indicator	611,265	Sept. 27	2051	472 473	84	1889
Milo, John, New York, N. Y. Coin-controlled strength-testing apparatus	612,168	Oct. 11	1023	246 247	85	210
Milton, Isaac A., Bigelow, Minn. Portable grain-elevator	601,582	Mar. 29	3469	789 790	82	1963
Miltier, Ernest D., Savannah, Ga. Lock	611,790	Oct. 4	340	82	85	69
Miltimore, George W., Arlington, Vt. Bicycle-frame	616,681	Dec. 27	2746	638	85	1999
Milwaukee Gas Stove Company. (See Detwiler, Alfred E., assignor.)						
Milwaukee Harvester Company. (See Burgess, Edward W., assignor.)						
Milwaukee Harvester Company. (See Graham and Birkett, assignors.)						
Milwaukee Manufacturing Company. (See Gillet, Joseph, assignor.)						
Milwaukee Manufacturing Company. (See Hoyt and Gillet, assignors.)						
Milwaukee Rail Joint and Welding Company. (See Austin, William J., assignor.) (Re-issue)						
Milwaukee Sander Manufacturing Company. (See Beck, Matthias A., assignor.)						
Mims, Giles D., Edgefield, S. C., and S. K. Dunkle, assignors of one-third to W. H. King, Finleyville, Pa. Railway-rail fastener	599,622	Feb. 22	2728	638	82	1178



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Miner, James W., assignor of one-half to P. Keck, Johnstown, N. Y. Combination-lock	613,585	Nov. 1	654	151	85	740
Miner, Jesse W., Canton, Minn. Rotary engine	611,700	Oct. 4	195	46	85	41
Miner, Julius U. (See Pease, Roger S., assignor.)						
Minich, J. W. (See Lankford, Jerome J., assignor.)						
Minis, Philip H., Jr., Leesburg, Va. Mold	600,011	Mar. 1	604	139	82	1327
Mink, Edward, Catskill, N. Y. Apparatus for use in drying ladies' hair	610,072	Aug. 30	3501	811	84	1396
Mink, Edward, Catskill, N. Y. Device for washing ladies' hair	612,259	Oct. 11	1190	285	85	241
Mink, Fritz, assignor to Keystone Watch Case Company, Philadelphia, Pa. Engraving-machine	606,676	July 5	77	16	84	18
Minneapolis Cooperage Company. (See White, Clarence O., assignor.)						
Minnemeyer, Edward G., Chicago, Ill. Hammer	613,459	Nov. 1	443	101	85	701
Mino, Joseph, and W. Day, Denver, Colo. Blasting implement	610,305	Sept. 6	317	68	84	1502
Minot, Homer S., Minneapolis, Minn. Plumb-level	597,886	Jan. 25	2463	575	82	528
Minter, Edwin F., assignor of one-half to C. C. Powell, Bloomington, Ill. Lunch-box	598,801	Feb. 8	1242	300 301	82	855
Minturn, Frank L., Noblesville, Ind. Gear-case	599,005	Feb. 15	1596	379	82	940
Mintzer, Harry H., Philadelphia, Pa. Fishing-float	608,063	July 26	2847	607	84	607
Miranda, Abraham R., assignor to Aseptic Supply Co., Boston, Mass. Antiseptic razor cabinet	612,861	Oct. 25	2281	544	85	479
Mischke, Karl, New York, N. Y. Screw-cutting die-head	606,223	June 28	2216	509	83	1828
Misell, David, New York, N. Y., assignor, by mesne assignments, to American Electrical Novelty and Manufacturing Company, of New York. Electric lamp	603,112	Apr. 26	2641	600	83	546
Mishler, Phares M., Hagerstown, Md. Fence-post	601,448	Mar. 29	3257	736	82	1919
Mishler, Phares M., Hagerstown, Md. Wire-fence machine	615,870	Dec. 13	1170	273	85	1654
Missimer, Jacob G., Philadelphia, Pa. Rib for umbrellas	605,113	June 7	78	22	83	1367
Mississippi Glass Company. (See Sheppard, Joseph W., assignor.)						
Missouri Lamp and Manufacturing Company. (See Schaefer, Edward, assignor.)						
Missouri Railway Equipment Company. (See Marshall, Edward S., assignor.)						
Missouri Railway Equipment Company. (See Marshall, George S., assignor.)						
Missouri Smelting Company. (See Doak, David P., assignor.)						
Mitchell, Thomas W. (See Sutherland and Mitchell.)						
Mitchell, Chandler. (See Mitchell, Claude G., assignor.)						
Mitchell, Charles B., Hays, Tex. Boiler-feed regulator	610,913	Sept. 20	1383	317	84	1744
Mitchell, Charles B., Hays, Tex. Valve	616,796	Dec. 27	2949	687	85	2040
Mitchell, Charles T., King's Norton, England. Machine for manufacturing beads, balls, &c.	599,108	Feb. 15	1772	421	82	973
Mitchell, Charles W., Brooklyn, assignor to Twisted Wire Box Strap Company, New York, N. Y. Pail-hook	606,469	June 28	2671	615	83	1919
Mitchell, Claude G., assignor of one-half to C. Mitchell, Chrisman, Ill. Staple-extractor	602,911	Apr. 26	2293	522	83	480
Mitchell, Colonel C. A., Indianapolis, Ind. Combination-tool	609,895	Aug. 30	3186	747	84	1335
Mitchell, Douglas, Indianapolis, Ind. Nut-lock	597,119	Jan. 11	1165	274	82	243
Mitchell, Edward D., assignor of one-half to W. Hooper, Brooklyn, N. Y. Base-ball-game apparatus	599,452	Feb. 22	2414	567 431 492	82	1118
Mitchell, Edward W., Oberlin, Ohio. Marine propulsion	611,182	Sept. 20	1870	492	84	1836
Mitchell, Ferris A., Glenolden, assignor, by mesne assignments, to Builders Specialty Manufacturing Company, Limited, Philadelphia, Pa. Anchor-plate for corner-strips	599,343	Feb. 22	2191	520	82	1073
Mitchell, Frank E., Bloomington, Ind. Umbrella-frame	600,289	Mar. 8	1240	282	82	1476
Mitchell, Frank H., New York, N. Y., assignor of one-third to C. T. Root, East Orange, and C. G. Phillips, Montclair, N. J. Dress-shield attachment	603,773	May 10	957	214	83	802
Mitchell, Frederick J., New York, N. Y. Disinfecting apparatus	603,012	Apr. 26	2465	560	83	512
Mitchell, George W., Hurricane, Ill. Collapsible reel for harvesters	612,260	Oct. 11	1191	285	85	241
Mitchell, Guy E. (See Ramsdell, Fred H., assignor.)						
Mitchell, Harry W., Pueblo, Colo. Carriage-clock	606,568	June 28	2852	657	83	1955
Mitchell, Henry. (See Holland, Joseph J., assignor.)						
Mitchell, Herbert L., Pittsburg, Pa. Coffee-pot	603,700	May 10	833	184	83	779
Mitchell, J. L. (See Parker, Middleton N., assignor.)						
Mitchell, Jacob, Detroit, Mich. Shoe-counter	600,316	Mar. 8	1280	292	82	1483
Mitchell, James, Sr., Arrow River, Canada. Life-boat	603,532	May 3	544	120	83	705
Mitchell, James C. (See Perry and Mitchell.)						
Mitchell, James T. (See Southington, Thomas W., assignor.)						
Mitchell, Joseph F., Kansas City, Kans. Pen wiper or cleaner	597,729	Jan. 25	2192	511	82	477
Mitchell & Lewis Company. (See Lewis, William T., assignor.)						
Mitchell, Loron, Augusta, Ga. Means for fastening insulator-pins to cross-arms	609,288	Aug. 16	2105	498	84	1094
Mitchell, Robert C. (See Nickerson, Sidney T., assignor.)						
Mitchell, Thomas W., et al. (See Badeker, John, assignor.)						
Mitchell, William A. (See Furber and Mitchell.)						
Mitchell, William A., Weaverville, N. C. Buckle	605,114	June 7	78	22	83	1367
Mitchell, William A., Nashville, Tenn. Compressed-air water-elevator	613,168	Oct. 25	2766	652	85	577
Mitchell, William A., assignor of one-third to J. D. Cochrane, Saco, Me. Gas-burner	596,900	Jan. 4	771	182	82	150
Mitchell, Willis, Malden, Mass. Soldering-iron	613,586	Nov. 1	658	152	85	741
Mitcheltree, W. B., et al. (See Patton, Joseph, assignor.)						
Mitscherlich, Alexander, Freiburg, Germany. Process of and apparatus for utilizing horn or similar material	602,237	Apr. 12	1123	247	83	226
Mitscherlich, Alexander, Freiburg, Germany. Converting wood into fibers suitable for use in the arts	606,017	June 21	1813	418	83	1732
Mitiska, Louis, Evansville, Ind. Magazine heating-stove	616,003	Dec. 13	1432	335	85	1705
Mittendorff, Charles von, Broad Ripple, Ind. Washing-machine	616,509	Dec. 27	2424	561	85	1938
Mittinger, George E., Jr., assignor of three-fourths to F. J. Schweitzer, Cleveland, Ohio. Ball-bearing	616,060	Dec. 13	1532	358	85	1725
Mittinger, George E., Jr., assignor of three-fourths to F. J. Schweitzer, Cleveland, Ohio. Trolley-wheel replacer	616,061	Dec. 13	1534	358	85	1725
Mix, Frank W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Bolt for locks	608,784	Aug. 9	1092	252	84	886
Mixer, William M., assignor to W. B. Hutchinson, trustee, New York, N. Y. Absorber	600,159	Mar. 8	1027	231	82	1435
Mixer, William M., assignor to W. B. Hutchinson, trustee, New York, N. Y. Pump system for circulating refrigerating liquors	612,567	Oct. 18	1721	408	85	354
Moats, Charles E., Kansas City, Mo. Gravity latch and lock	616,626	Dec. 27	2621	607	85	1974
Möckel, Albin. (See Ruckdeschel and Möckel.)						
Moe, Sivert, E. W. Buell, G. C. Roberts, and A. Conkling, Chicago, Ill., assignors to Troy Laundry Machinery Company, Limited, Troy, N. Y. Starching-machine	611,015	Sept. 20	1567	361	84	1778
Mocs, Joseph. (See Crandall, Jesse A., assignor.)						
Moehn, John N., Milwaukee, Wis. Hook	600,548	Mar. 15	1710	391	82	1585
Moehn, John N., Milwaukee, Wis. Oval holder for toilet-paper	604,774	May 31	2845	630	83	1235
Moehn, John N., Milwaukee, assignor of one-half to L. D. Dorschell, Chilton, Wis. Toilet-paper cabinet	602,995	Apr. 26	2439	556	83	507
Moehn, Nicholas J., Milwaukee, Wis. Rotary engine	613,587	Nov. 1	661	152	85	741



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Moeller, Julius, London, England. Oil-lamp for incandescent lighting	614,020	Nov. 8	1389	318 319	85	904
Moeller, Julius, London, England, assignor to Welsbach Light Company, Gloucester City, N. J. Mantle or hood for Welsbach or other incandescent lights	606,224	June 28	2217	509	83	1828
Moeller, Julius, London, England, assignor to Welsbach Light Company, Gloucester City, N. J. Incandescent gas-lamp	615,626	Dec. 6	758	175	85	1562
Moessner, Carl W., Philadelphia, Pa. Electric battery for medical purposes	598,948	Feb. 15	1500	358	82	921
Moffat, George, New York, N. Y. Rail-bond	605,115	June 7	79	22	83	1367
Moffitt, John R., Denver, Colo. Rock breaker and crusher	611,205	Sept. 20	1912	441	84	1844
Moffitt, John W., Philadelphia, Pa. Dental articulator	613,772	Nov. 8	983	225	85	824
Mogenson, Mads, assignor of one-half to A. La Bounty, Farnam, Nebr. Fence-making device	601,041	Mar. 22	2527	574	82	1752
Mohler, Levi S., Covington, Ohio. Fence-stay	604,065	May 17	1537	346	83	948
Mohn, Finn. (See Anderson and Mohn.)						
Mohn, John, Detroit, Mich. Barrel-bung	599,300	Feb. 15	2092	495	82	1032
Mohr, William, Kurtz, Ind. Rotary engine	615,087	Nov. 29	3383	775	85	1330
Mohs, Julius, Brandenburg-on-the-Havel, Germany. Valve for pneumatic tires	606,069	June 21	1912	440	83	1750
Mohs, Julius, Brandenburg-on-the-Havel, Germany. Valve for pneumatic tires	614,968	Nov. 29	3151	724	85	1289
Mohun, John L., Altoona, and C. S. Clark, Scottdale, Pa. Valve	616,682	Dec. 27	2748	638	85	1999
Molacek, Thomas E., et al. (See Urbanek, Joseph, assignor.)						
Molas, Jean, London, England. Valve for engines	608,064	July 26	2848	607	84	607
Molby, Joseph P., Cambria, Mich. Heating-furnace	610,273	Sept. 6	235	53	84	1488
Moldal, Ole A. A., Lahoma, assignor of two-fifths to J. W. Coman, Alva, Okla. Ter. Envelop	601,583	Mar. 29	3470	790	82	1963
Mole, John G., Batavia, Ill. Grinding-mill	603,064	Apr. 26	2545	578	83	527
Molis, August. (See Acker, McCoskry, and Molis.)						
Moll, John, C. Tolly, and E. Sims, Obed, Ill. Folding crate	600,589	Mar. 15	1778	406 407	82	1597
Molla, Gioachino, New York, N. Y. Crimping-machine	613,069	Oct. 25	2616	619	85	547
Möller, Peter W., Altona, Germany. Car-coupling	598,156	Feb. 1	141	33	82	629
Möller, Richard, Bennett, Pa. Land or water bicycle	615,871	Dec. 13	1171	273	85	1654
Möller, Wilhelm, Bremerhaven, Germany. Valve for steam-whistles	616,197	Dec. 20	1821	421	85	1799
Möller, Wilhelm, Ueckendorf, assignor to Fahrendeller Hütte Winterberg & Jures, Bochum, Germany. Lubricating device for vehicles	614,405	Nov. 15	2103	483 484	85	1060
Möllinger, Julius A., and K. Kurda, Nuremberg, Germany. Alternating-current motor-meter	606,630	June 28	2960	686	83	1974
Molloy, Thomas A., and L. Kirchner, assignors of one-third to M. P. Manning, Poughkeepsie, N. Y. Boot or shoe	597,524	Jan. 18	1847	428	82	393
Momand, Ragland, New York, N. Y., assignor to American Lighting Company, of New Jersey. Gas-burner	606,225	June 28	2218	509	83	1828
Momand, Ragland, New York, N. Y., assignor to American Lighting Company, of New Jersey. Gas-burner	613,044	Oct. 25	2568	610	85	537
Monaghan, John F., Lowell, Mass. Circulating-keir	612,210	Oct. 11	1088	261 262	85	222
Monahan, Robert. (See Haines and Monahan.)						
Monarch Brake-Beam Company. (See Simpson and Hantiges, assignors.)						
Monarch Cycle Manufacturing Company. (See Birner, Charles P., assignor.)						
Monarch Duplex Engine Company. (See Hobbs, Davis D., assignor.)						
Monarch Manufacturing Company. (See McNelly, Mathias F., assignor.)						
Monarch Manufacturing Company of Baltimore City. (See Lindemeyr, Philip, assignor.)						
Monarch Water Heater Company. (See Beckfield, John C., assignor.)						
Monarch Water Heater Company. (See Beler, Adolf, assignor.)						
Mond, Ludwig, London, England. Process of and apparatus for obtaining nickel from nickel-carbonyl	606,843	July 5	392	83, 84	84	78
Mond, Robert L. (See Wildermann and Mond.)						
Monell, Ambrose, Munhall, Pa. Magnetic separator	610,767	Sept. 13	1127	258 259	84	1676
Monell, Ambrose, Homestead, Pa. Stay-bolt	615,628	Dec. 6	760	175	85	1562
Money-Kent, Julian M. V. (See Pringle, Percival J., assignor.)						
Monfort, Charles P., Leonidas, Mich. Envelop	604,666	May 24	2644	606	83	1179
Moninger, John W. (See Hyatt, Samuel W., assignor.)						
Monitor Company. (See Stevens, Edward G., assignor.)						
Monitor Vapor Engine and Power Company. (See Hain, Ralph B., assignor.)						
Monjay, William D., Burrton, Kans. Clothes line and pin	600,160	Mar. 8	1029	231	82	1435
Monk, Thomas A. (See Bailey and Monk.)						
Monk, William. (See Wright and Monk.)						
Monk, William, Newark, N. J. Self-acting spinning-mule	611,816	Oct. 4	391	93	85	78
Monnet, Pierre P., Lyons, France. Vessel for containing and administering volatile liquids	604,191	May 17	1773	400	83	995
Monnet, Pierre P., assignor to Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier, Lyons, France. Making pyrocatechin-sulfonic acid	604,066	May 17	1538		83	948
Monnet, Pierre P., assignor to La Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier, Lyons, France. Making chlorin derivatives of toluene	606,470	June 28	2672		83	1919
Monnet, Pierre P., assignor to La Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier, Lyons, France. Making aromatic aldehydes	613,460	Nov. 1	444		85	701
Monnett, John T., et al. (See Reidenbaugh, John, assignor.)						
Monnot, Charles D., Canton, Ohio. Convertible tricycle	609,237	Aug. 16	2009	477	84	1075
Monoline Composing Company. (See Scudder, Wilbur S., assignor.)						
Monroe, Ansel W., Philadelphia, Pa. Gas-log	613,015	Oct. 25	2524	601	85	529
Monroe, Charles T., assignor of one-half to J. M. Michelson, Wisdom, Mont. Water-wheel	600,737	Mar. 15	2032	463	82	1646
Monroe, Elmer E., Richmond, Ind. Window-screen	611,924	Oct. 4	573	139	85	113
Monous & Larson et al. (See Larson and Branzell, assignors.)						
Monteer, Alexander N., Springfield, assignor of one-half to W. A. Nettleton, Kansas City, Mo. Roof-securing device	604,775	May 31	2846	650	83	1236
Montgomery Fibre-Saving Cotton Gin Company. (See Montgomery, Frederick L., assignor.)						
Montgomery, Frederick L., assignor to Montgomery Fibre-Saving Cotton Gin Company, New York, N. Y. Roller cotton-gin	597,999	Jan. 25	2662	621 622	82	566
Montgomery, John A., Birmingham, Ala. Match-box	614,740	Nov. 22	2714	618	85	1187
Montgomery, John E., and W. T. Berry, Coosawattee, Ga. Grain-drill	605,322	June 7	502	111	83	1448
Montgomery, John M., Butte, Mont. Ore granulator and pulverizer	608,700	Aug. 9	955	219 220	84	864
Montgomery, L. D., et al. (See Weinhart, Theodore, assignor.)						
Montgomery, Samuel, New York, N. Y. Pipe-wrench	600,968	Mar. 22	2402	548	82	1729



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Montgomery, Thomas. (See McCarron and Montgomery.)						
Monto, Joseph, Chicago, Ill. Tinning-machine	613,704	Nov. 8	847	194 195 196 197	85	799
Montross, Levi H., Camden, N. J. Spring-motor	598,529	Feb. 8	792	190	82	770
Montupet, Antonin, Paris, France. Steam-generator	609,971	Aug. 30	3330	775 776	84	1362
Mood, Asbury F. (See Sparks, James H., assignor.)						
Moodie, Robert, London, England. Washing or leaching apparatus	608,554	Aug. 2	685	155	84	751
Moody, Arthur R., Stoke-on-Trent, England. Respirator	610,914	Sept. 20	1385	317	84	1744
Moody, Frank T., Minneapolis, Minn. Sealed pipe-coupling	616,128	Dec. 20	1676	391	85	1769
Moody, John H., Cambridge, Mass., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Web-controlling device for printing-machines	598,107	Feb. 1	65	15	82	615
Moody, Stephen F., Magalia, assignor of one-half to R. F. Jackson, Chico, Cal. Machinery for extracting gold	601,212	Mar. 22	2813	643	82	1807
Moody, William H. (See Thornton and Moody.)						
Moore, Henry C., assignor of one-half to A. Cooke, Toledo, Ohio. Steam-trap	612,430	Oct. 18	1481	358	85	309
Moore, Henry C., assignor of one-half to A. Wood, Toledo, Ohio, and E. Wisner, Richmond, La. Means for transmitting motion to shafts at various angles	612,862	Oct. 25	2282	544	85	480
Moore, Thomas J. (See Loomis and Moore.)						
Moon, Frank D., assignor of three-twentieths to L. F. Adams, J. Gaskill, Lockport, and F. S. Jackson, Holland, N. Y. Rotary steam-engine	604,333	May 17	2039	456	83	1045
Moon, George R., Columbus, Ohio. Baking-oven	598,570	Feb. 8	864	207	82	785
Moon, George R., Columbus, Ohio. Combined cooking and warming attachment for stove outlet-pipes	612,954	Oct. 25	2430	579	85	510
Moon, John H., Portland, Oreg. Freight and passenger elevator	612,261	Oct. 11	1192	286	85	241
Moon, Orville P., Lorain, Ohio. Indicator for gas or vapor stove valves	600,884	Mar. 22	2275	518	82	1705
Moon, Orville P., and H. L. Marbach, Lorain, Ohio. Hydrocarbon-burner	608,785	Aug. 9	1093	252 253 287	84	888
Moonelis, Emil, New York, N. Y. Cigarette-machine	609,039	Aug. 16	1627	388 389	84	1002
Mooney, Frank, <i>et al.</i> (See Burdett, Oliver H., assignor.)						
Mooney, John H., Oakland, Cal. Sewing-machine	600,231	Mar. 8	1138	260	82	1457
Mooney, Joseph G., Erie, Pa. Bicycle	601,025	Mar. 22	2504	569	82	1747
Mooney, Sherman G. and W. J., Pattonsburg, Mo. Apparatus for applying stay-wires to wire fencing	610,819	Sept. 13	1225	282	84	1696
Mooney, Squire V. (See Simmons, John P., assignor.)						
Mooney, Thomas H., Dayton, Ohio. Mold for forming tiles	610,686	Sept. 13	978	227	84	1646
Mooney, William J. (See Mooney, Sherman G. and W. J.)						
Moore, Albanus R., Medora, Ill. Land-marker	600,590	Mar. 15	1779	407	82	1597
Moore, Arthur C., and G. Rodwell, London, England. Elastic tire and rim for wheels	607,695	July 19	2145	451	84	451
Moore, Caleb J., Baltimore, Md. Bottle	610,362	Sept. 6	424	91	84	1520
Moore, Calvin F., Chicago, Ill. Folding cot	606,355	June 28	2470	573	83	1878
Moore, Charles and O., and D. R. Oliver, Stockton, Cal. Office-indicator	615,568	Dec. 6	653	150	85	1539
Moore, Charles B., Rochester, Ind. Vehicle-seat	596,525	Jan. 4	112	25	82	23
Moore, Charles E., and J. Doyle, Chicago, Ill. Car-coupling	605,737	June 14	1234	285 286	83	1608
Moore, Charles H., <i>et al.</i> (See Guest, John H., assignor.)						
Moore, Charles L., and C. V. Pugh, Bowling Green, Mo. Burial apparatus	605,555	June 14	895	208 209	83	1546
Moore, Cyrus, and P. S. West, Perry, Mich.; said West assignor to said Moore. Automatic friction-governor	600,497	Mar. 8	1614	369	82	1547
Moore, Daniel M., Newark, N. J. Apparatus for producing luminous or similar effects	604,686	May 24	2678	613	83	1186
Moore, Daniel M., Newark, N. J. Circuit-interrupting mechanism	604,687	May 24	2681	613	83	1186
Moore, Daniel M., Newark, N. J. Circuit-interrupter	604,688	May 24	2682	614	83	1186
Moore, Daniel M., assignor to Moore Electrical Company, New York, N. Y. Incandescent-electric-lamp regulator	604,679	May 24	2665	611	83	1183
Moore, Daniel M., assignor to Moore Electrical Company, New York, N. Y. Electric-lamp regulator	604,680	May 24	2666	611	83	1184
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Electric luminous alphabet and board for same	602,953	Apr. 26	2373	541	83	496
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Interrupter for electric-lighting systems	604,681	May 24	2668	611	83	1184
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Magnetic circuit-breaker	604,682	May 24	2669	611 612	83	1184
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Magnetic circuit-breaker	604,683	May 24	2671	612	83	1184
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Automatic vibratory interrupter	604,684	May 24	2673	612	83	1185
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Electric-lighting apparatus	604,685	May 24	2676	612 613	83	1185
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Circuit-interrupting device	611,206	Sept. 20	1914	442	84	1844
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Phosphorescent electric lighting	613,864	Nov. 8	1141	261 262	85	854
Moore, David A., assignor of one-third to O. T. Eads, Harvey, Ill. Air-propelled bicycle	596,901	Jan. 4	772	182	82	151
Moore, David A., Harvey, assignor to Buda Foundry and Manufacturing Company, Chicago, Ill. Railway-track drill	604,410	May 24	2182	489	83	1093
Moore, Davis L., Jr., Philadelphia, Pa. Sash-fastener	614,741	Nov. 22	2715	618	85	1187
Moore, Edmond H. (See Megown, John, assignor.)						
Moore, Edward J., Philadelphia, Pa. Steam-boiler	605,791	June 14	1352	309 310	83	1629
Moore, Edward J., Philadelphia, Pa. Steam-boiler	608,065	July 26	2849	608	84	607
Moore, Edward Y., assignor to Moore Manufacturing Company, Cleveland, Ohio. Door-hanger	610,409	Sept. 6	514	112	84	1537
Moore Electrical Company. (See Moore, Daniel M., assignor.)						
Moore, Elisha, Meductic, Canada. Bottle	599,285	Feb. 15	2060	489	82	1027
Moore, Elisha, Meductic, Canada. Fishing-reel	602,585	Apr. 19	1714	390	83	354
Moore, Elisha, Meductic, Canada. Mechanism for imparting successive or alternating movements	611,501	Sept. 27	2501	577	84	1973
Moore, Frank L., Chatham, N. J. Fastener for straps	605,609	June 14	1008	233	83	1565
Moore, Frank S., assignor to F. E. Williams, Park City, Utah. Miner's candlestick	600,591	Mar. 15	1780	407	82	1597
Moore, Franklin D., and H. L. Woodle, Fort Scott, Kans. Rotary motor	600,677	Mar. 15	1926	498	82	1625



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Moore, George, Boston, Mass. Convertible street-railway car .....	602,604	Apr. 19	1748	398 399	83	360
Moore, George A., and H. J. Rosegrant, Philadelphia, Pa. Sole-laying machine .....	606,176	June 21	2108	484	83	1788
Moore, George R., Philadelphia, Pa. Door-knob fastening .....	610,631	Sept. 13	897	206	84	1630
Moore, Ila N., assignor to Union Steam Pump Company, Battle Creek, Mich. Steam-engine .....	598,949	Feb. 15	1505	358	82	922
Moore, James B., and J. M. Young, Watertown, Tenn. Vise .....	608,697	Aug. 9	950	218	84	863
Moore, Jehiel T., assignor of one-half to H. L. Jenkins, Minneapolis, Minn. Telephone-holder .....	605,294	June 7	455	101 167	83	1439
Moore, John C., Eastbourne, England. Harvesting-machine .....	603,652	May 10	753	168	83	763
Moore, John C., and J. L. Thurman, Newtown, Ky., assignors of one-third to J. Hawkins, Dolomite, Ala. Means for regulating churn-powers .....	611,220	Sept. 20	1952	451	84	1851
Moore, John G. (See Walquist, Frank W., assignor.) .....						
Moore, John H., Wellsville, Ohio. Oil-well-drilling machine .....	600,437	Mar. 8	1470	337 338	82	1521
Moore, John M., Atlanta, Ga. Copying-press .....	602,414	Apr. 12	1425	322	83	287
Moore, John W., and J. A. White, Philadelphia, Pa. Wire-guide for paper-making machines .....	613,588	Nov. 1	663	152	85	742
Moore, Jonathan M., and E. Hess, Newton, W. Va. Gate-latch .....	614,406	Nov. 15	2104	484	85	1060
Moore, Joseph R., Denver, Colo. Bicycle-stand .....	602,415	Apr. 12	1427	323	83	287
Moore, Llewellyn C., assignor of one-half to S. A. Cox, S. Crosser, and H. Rogers, Farra-gut, Iowa. Shoe-lace fastener .....	609,112	Aug. 16	1780	423	84	1029
Moore Manufacturing Company. (See Moore, Edward G., assignor.) .....						
Moore Manufacturing Company. (See Moore, Van Zandt M., assignor.) .....						
Moore, Moses M., Chicago, Ill. Rail-drill .....	597,377	Jan. 11	1592	369 370	82	328
Moore, Moses M., Chicago, Ill. Rail-drill .....	599,399	Feb. 22	2311	545	82	1098
Moore, Moses M., Chicago, Ill. Track-drill .....	614,253	Nov. 15	1828	422 423	85	1007
Moore, Orlando. (See Moore and Oliver.) .....						
Moore, Robert C., Palmyra, Ill. Toy cue .....	616,482	Dec. 27	2368	550	85	1928
Moore, Samuel, Wilmington, Del. Street-sweeper .....	609,113	Aug. 16	1781	423	84	1029
Moore, Susan F., Peabody, Mass. Car-fender .....	601,155	Mar. 22	2708	623	82	1788
Moore, Thomas A. L., assignor of five-eighths to S. T. Atkinson and D. S. Hardy, Richmond, Va. Track-groove cleaner .....	614,122	Nov. 15	1574	360	85	961
Moore, Thomas J. (See Warren, Edmond A., assignor.) .....						
Moore, Thomas R., Walden, N. Y. Propelling mechanism for bicycles .....	612,568	Oct. 18	1722	408	85	354
Moore, Van Zandt M., assignor to Moore Manufacturing Company, Cleveland, Ohio. Door-hanger .....	606,808	July 5	328	69	84	66
Moore, Walter E. (See King, Charles, assignor.) .....						
Moore, William, Long Island City, N. Y. Combined square, plumb, and level .....	596,818	Jan. 4	640	147	82	124
Moore, William G., assignor of two-thirds to W. and T. Ralph, London, Canada. Com-pound for preventing escape of air from punctured tires .....	598,324	Feb. 1	447	-----	82	687
Moore, William H., assignor to H. F. and G. Miller, Baltimore, Md. Hinge .....	600,161	Mar. 8	1029	231	82	1435
Moore, William J., The Dalles, Oreg. Opening or closing gates .....	608,702	Aug. 9	957	220	84	864
Moore, William N., Washington, D. C. Acetylene-gas-generator lamp .....	607,871	July 26	2501	531	84	537
Moore, William R., Eden, N. Y. Wrench .....	610,553	Sept. 13	770	175	84	1602
Moore, James, and H. O. Farrell, Manchester, England. Electric generator for cycles or other vehicles .....	616,343	Dec. 20	2093	488	85	1853
Moorman, Charles A., et al. (See Moorman, Charles T., assignor.) .....						
Moorman, Charles T., assignor of two-thirds to C. A. Moorman, Packwood, and E. W. Moorman, Ioka, Iowa. Device for oiling vehicle-axes .....	614,254	Nov. 15	1830	423	85	1007
Moorman, Eli W., et al. (See Moorman, Charles T., assignor.) .....						
Mora, Giuseppe, Milan, Italy. Producing copies of oil-paintings .....	603,533	May 3	545	-----	83	706
Moran, George N., et al. (See White, Charles S., assignor.) .....						
Moran, James B., New Haven, Conn. Eyelet-hole-finishing device .....	604,589	May 24	2516	572	83	1154
Moran, John. (See Morrison and Moran.) .....						
Moran, John J., and S. E. Smith, New York, N. Y. Core for paper-rolls .....	612,910	Oct. 25	2363	563	85	495
Moran, Michael. (See Fitzgerald, George H., assignor.) .....						
Moran, William, Minneapolis, Minn. Range-finder .....	600,438	Mar. 8	1481	338	82	1521
Morava, Wensel, Chicago, Ill. Gas or oil motor for bicycles .....	608,968	Aug. 9	1465	346 347	84	957
Morch, John H. (See Weeks, John, assignor.) .....						
Morcom, John H., et al. (See Collier, Joseph, assignor.) .....						
Morcom, John H., assignor to Colorado Iron Works Company, Denver, Colo. Slag-truck .....	605,566	June 14	922	216	83	1551
Morden, George. (See Young and Morden.) .....						
Mordey, William M., Loughborough, England. Dynamo-electric machine .....	615,731	Dec. 13	939	218 219	85	1609
Mordey, William M., Loughborough, England. Dynamo-electric machine .....	615,732	Dec. 13	941	219	85	1610
Morehead, Presley W., New Market, Va. Thill-coupling .....	612,863	Oct. 25	2283	544	85	480
Morell, John, and J. B. Kopp, Coraopolis, Pa. Machine-mold for use in blowing glass articles .....	615,088	Nov. 29	3385	775 776	85	1331
Moreno, Mason S., and C. J. Curry, Key West, Fla. Mail-box .....	614,058	Nov. 8	1443	331 332	85	914
Moreton, George W., assignor to Betts Machine Company, Wilmington, Del. Boring and turning mill .....	612,783	Oct. 18	2122	504	85	430
Morfoot, Benjamin W., Chicago, Ill., assignor of one-half to H. Ziegfeld, Mount Vernon, N. Y. Key-opening can-head .....	606,471	June 28	2673	615	83	1919
Morford, Thomas E. (See Burnett, Wesley, assignor.) .....						
Morgan, Anne E., Wellesley, Mass. Game apparatus .....	613,383	Nov. 1	301	70	85	675
Morgan, Charles, Freeport, Ill. Lemon-squeezer .....	602,088	Apr. 12	865	188	83	175
Morgan, Charles H., and V. E. Edwards, assignors to Morgan Construction Company, Worcester, Mass. Rolling-mill plant .....	600,335	Mar. 8	1311	300 301	82	1489
Morgan Company. (See Wyman, George L., assignor.) .....						
Morgan Construction Company. (See Carroll, Elbert H., assignor.) .....						
Morgan Construction Company. (See Edwards, Victor E., assignor.) .....						
Morgan Construction Company. (See Edwards and Morgan, assignors.) .....						
Morgan Construction Company. (See Morgan and Edwards, assignors.) .....						
Morgan, David, Axial, Colo. Water-wheel .....	598,802	Feb. 8	1244	301	82	855
Morgan, Edmund C., Chicago, Ill. Mining-machine .....	597,085	Jan. 11	1108	261 262	82	232
Morgan, Edwin J., and F. H. Rose, Winthrop, Mass. Device for feeding grain to horses .....	600,980	Mar. 22	2425	554	82	1732
Morgan, Edwin J., Norwich, England. Sash-fastener .....	608,786	Aug. 9	1096	253	84	888
Morgan, Fred W., Chicago, Ill. Pneumatic tire .....	615,630	Dec. 6	762	176	85	1563



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Morgan, Fred W., assignor to Morgan & Wright, Chicago, Ill. Elastic tire and means for attaching same	604,067	May 17	1539	346	83	949
Morgan, Fred W., Chicago, and E. W. Young, Austin, assignors to Morgan & Wright, Chicago, Ill. Manufacture of pneumatic-tire tubes	605,644	June 14	1077	247 248	83	1578
Morgan, George L., Kokomo, Colo. Rocker attachment for baby-carriages	606,569	June 28	2853	658	83	1955
Morgan, Henry W., Rochester, N. Y. Nailing-machine	596,902	Jan. 4	774	182 183	82	151
Morgan, Henry W., Rochester, N. Y. Rotary cutter	612,526	Oct. 18	1637	391	85	339
Morgan, Henry W., Rochester, N. Y. Box-nailing machine	614,231	Nov. 15	1787	413	85	999
Morgan, James, assignor of four-fifths to J., C., A. E. A., and F. Scherber, Timboon, Victoria. Antirattling thill-coupling	608,524	Aug. 2	631	142	84	780
Morgan, James M. (See Trapp, Charles C. and F., assignors.)						
Morgan, John O., assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Driving mechanism for grain-conveyers	608,263	Aug. 2	159	39	84	685
Morgan, John W., Harriman, Tenn. Bicycle-saddle	604,068	May 17	1541	346	83	949
Morgan, Ralph L. (See Edwards and Morgan.)						
Morgan, Robert W., New York, N. Y. Curtain for vestibules of cars, &c.	607,872	July 26	2502	531	84	537
Morgan, Roscoe J. (See Parker, Mannie B., assignor.)						
Morgan, Thomas, Jersey City, and F. W. Jones, Newark, N. J.; said Morgan assignor to C. W. Hobbs, Worcester, Mass. Box-covering and corner-staying machine	616,062	Dec. 13	1536	359	85	1725
Morgan, Thomas F., and C. B. Dunnagan, Winston, assignors to themselves, and L. W. Seabolt, Salem, N. C. Sheet-metal laundry-stove	615,629	Dec. 6	761	176	85	1563
Morgan, Waitman M., and F. E. Parker, Kansas City, Mo. Process of and apparatus for roasting and separating ores	605,001	May 31	3209	739 740	83	1307
Morgan, William. (See Clarke, Morgan, and Gordon.)						
Morgan, William, Cleveland, Ohio. Die-head for screw-machines	610,632	Sept. 13	898	206	84	1630
Morgan, William A. (See Welch and Burkhart, assignors.)						
Morgan, William H., Alliance, Ohio. Overhead traveling crane	602,765	Apr. 19	2023	459	83	413
Morgan, William H., Peabody, Kans. Roller-brake	602,966	Apr. 26	2440	557	83	508
Morgan & Wright. (See Clark, Percy L., assignor.)						
Morgan & Wright. (See Golding, William, assignor.)						
Morgan & Wright. (See Herrick, William, assignor.)						
Morgan & Wright. (See Morgan, Fred W., assignor.)						
Morgan & Wright. (See Morgan and Young, assignors.)						
Morgan & Wright. (See Morris, Thomas W., assignor.)						
Morgan & Wright. (See Young, Ernest W., assignor.)						
Morgans, William, London, England. Winding and hauling engine	607,446	July 19	1521	324	84	327
Morgel, Henry W., Brazil, Ind. Lawn-mower	602,513	Apr. 19	1593	364 365	83	333
Morin, Joseph H., assignor to D. T. Dudley & Son Company, Wilkinsonville, Mass. Loom-shuttle	615,567	Dec. 6	651	149	85	1539
Morison, William, Montclair, N. J. Battery	601,042	Mar. 22	2529	575	82	1752
Moritz, Louis J. A., State Centre, Iowa. Lid-lifter	604,477	May 24	2314	525	83	1117
Morkre, Eli S., Wauamingo, Minn. Wire-winding machine	611,817	Oct. 4	392	94	85	78
Morley Button Manufacturing Company. (See Bennett, Walter E., assignor.)						
Morley Button Sewing Machine Company. (See Hardenbrook, Charles E., assignor.)						
Morley Button Manufacturing Company. (See Jenkins, Herbert J., assignor.)						
Morley Finishing Machine Company. (See Clark, George H., assignor.)						
Morley Finishing Machine Company. (See Howe, Oliver L., assignor.)						
Morley, James, Bournemouth, England. Tire for vehicle-wheels	610,633	Sept. 13	900	206	84	1630
Morley, Oliver W., Woodland, Mich. Device for pulling off felt boots	615,872	Dec. 13	1172	274	85	1655
Mormann, John C. (See Ford and Mormann.)						
Morningstar, Benjamin F., assignor to himself and F. Recht, New York, N. Y. Medicine-spoon	608,890	Aug. 9	1311	306	84	928
Moroney, David J. (See Szabó, Avelin, assignor.)						
Moroney, Edward F., et al. (See Pettes, Moses M., assignor.)						
Morpeth, John W., Muskegon, Mich. Curtain-roller	597,730	Jan. 25	2194	511	82	477
Morrell, Henry L., Brooklyn, N. Y. Saw setting and filing machine	598,267	Feb. 1	348	81, 82	82	667
Morrell, Henry L., Brooklyn, N. Y. Spiral file for saw-filing machines	598,268	Feb. 1	352	82	82	668
Morrett, Albert A., assignor of two-thirds to J. E. Myers and J. W. Morrett, Steelton, Pa. Shutter-worker	600,439	Mar. 8	1482	338	82	1521
Morrett, Jacob W., et al. (See Morrett, Albert A., assignor.)						
Morrill, John F., Boston, Mass. Hot-water bottle or ice-compress	611,207	Sept. 20	1915	442	84	1844
Morrill, Oscar M. (See Anderson and Morrill.)						
Morrill, Osgood. (See Wells and Morrill.)						
Morris, Charles C., Waldeck, New Zealand. Tobacco-cutter	606,874	July 5	443	95	84	87
Morris, Clement S., Durham, N. H. Fastening device	607,447	July 19	1523	324	84	327
Morris, D. E., et al. (See Mason, William R., assignor.)						
Morris, Edmund, Michigan City, Ind. Weaving-needle	609,450	Aug. 23	2393	562	84	1169
Morris, Edmund, Michigan City, Ind. Thread for weaving	609,451	Aug. 23	2395	562	84	1169
Morris, Edmund, Michigan City, Ind. Art of and apparatus for manufacturing composite threads for weaving chair-seat fabrics, &c.	609,452	Aug. 23	2396	563	84	1169
Morris, Edmund, Michigan City, Ind. Rotary cutter	609,896	Aug. 30	3189	747	84	1335
Morris, Gustave H., Liverpool, England. Device for detecting, notifying, or preventing theft	616,129	Dec. 20	1678	391	85	1769
Morris, Henry G., Philadelphia, Pa. Vehicle-wheel	614,665	Nov. 22	2582	587	85	1160
Morris, Henry G., and P. G. Salom, Philadelphia, Pa. Electrically-propelled vehicle	603,198	Apr. 26	2779	633 634	83	573
Morris, James F. W., and G. Mumford; said Morris assignor to W. S. T. Martin, London, England. Electric lock and system of electric locking for securing additional safety in railway signaling	597,650	Jan. 18	2049	479 480	82	434
Morris, John, West Pullman, assignor to Plano Manufacturing Company, Chicago, Ill. Header platform connection	604,069	May 17	1542	347	83	949
Morris, John H., Seward, Nebr. Permutation-lock	601,975	Apr. 5	681	144 145	83	129
Morris, John J. (See Lind, John W., assignor.)						
Morris, John O., assignor of one-half to J. L. Rowe, Richmond, Va. Generator	596,903	Jan. 4	775	183	82	151
Morris, John R., Jewell City, Kans. Combination-tool	607,448	July 19	1525	324	84	327
Morris, John W. T., Summerland, Cal. Door-knob attachment and lock	613,169	Oct. 25	2767	652	85	577
Morris, Joseph C., Tampa, Fla. Plant-setting implement	612,745	Oct. 18	2045	486	85	416
Morris, Orson, Red Canyon, Wyo. Slide-valve	607,944	July 26	2627	557 558	84	561
Morris, Orson, assignor of one-half to J. Groutage, Red Canyon, Wyo. Mowing-machine	602,586	Apr. 19	1715	390	83	354
Morris, Paschall H. (See Parker, John, assignor.)						
Morris, Richard. (See Crabtree, John, assignor.)						
Morris, Robert C., Olney, Ill. Journal-cooler	614,486	Nov. 22	2267	519	85	1104



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Morris, Stephen H. (See Drinkwater, Miles B., assignor.)						
Morris, Thomas E., assignor of three-fourths to E. E. Lindsay and J. M. Miller, Newcomerstown, Ohio and S. B. Chandler, Newport News, Va. Collapsible core-barrel	613,524	Nov. 1	559	127	85	722
Morris, Thomas W., Chicago, Ill. Pneumatic tire for vehicles	600,162	Mar. 8	1030	231	82	1435
Morris, Thomas W., assignor to Morgan & Wright, Chicago, Ill. Toe-clip for velocipedes	597,780	Jan. 25	2286	534	82	494
Morris, William L., Cleveland, Ohio. Oil-cup	609,111	Aug. 16	1779	423	84	1028
Morris, William L., assignor to Austin Cartridge Company, Cleveland, Ohio. Shell-loading machine	612,864	Oct. 25	2285	545	85	480
Morris, William L., assignor to Austin Cartridge Company, Cleveland, Ohio. Wad-cutter	612,955	Oct. 25	2431	579	85	510
Morris, William R., Richland, Ill. Velocipede-crank	614,330	Nov. 15	1966	454	85	1084
Morrison, Andrew, assignor to Dilworth, Porter & Co., Limited, Pittsburg, Pa. Tie-plate	597,911	Jan. 25	2505	586	82	536
Morrison, Andrew, assignor to Dilworth, Porter & Company, Pittsburg, Pa. Manufacture of tie-plates	607,696	July 19	2147	452	84	451
Morrison, Andrew, assignor to Dilworth, Porter & Company, Pittsburg, Pa. Rolling tie-plates	616,797	Dec. 27	2950	687	85	2040
Morrison, Augustus H., Amsterdam, N. Y. Paper-cutting shears	616,798	Dec. 27	2951	688	85	2041
Morrison Battery Company. (See Williams, Harry, assignor.)	609,622	Aug. 23	2725	635	84	1230
Morrison, Charles W., et al. (See Stanley, Oramel C., assignor.)						
Morrison, Chester A., and J. Moran; said Moran assignor and said Morrison assignor of part of his right to L. E. Morrison, Manitou, and W. Whelan, El Paso county, Colo. Windlass	603,237	Apr. 26	2849	649 650	83	586
Morrison, David B., Kansas City, Mo. Filter	605,500	June 14	812	188	83	1529
Morrison, Floyd E. (See Strother, John W., assignor.)						
Morrison, George L., Holland, assignor of one-half to A. H. Thayer, Shelby, Mich. Butter-plate	597,731	Jan. 25	2194	512	82	477
Morrison, Harry, London, England. Bicycle-brake	596,526	Jan. 4	113	26	82	24
Morrison, James, and H. P. Hansen, Seattle, Wash. Pipe-coupling	606,677	July 5	79	16	84	18
Morrison, John H., Prescott, Ariz. Ter. Brace	598,882	Feb. 1	532	129	82	703
Morrison, John R., assignor to Auburn Bolt and Nut Works, Auburn Pa. Tube-making machine	603,486	May 3	442	99	83	687
Morrison, John W., et al. (See Mason, James H., assignor.)						
Morrison, John W., and J. E. Tracy, assignors to Mound City Wood Novelty Company, St. Louis, Mo. Display-rack and measurer	613,931	Nov. 8	1248	284	85	875
Morrison, John W., and J. E. Tracy, assignors to Mound City Wood Novelty Company, St. Louis, Mo. Cutter	614,407	Nov. 15	2106	484	85	1060
Morrison, Joseph C., Akron, Ohio. Cutter for trimming or cutting boiler-tubes	605,501	June 14	813	188	83	1529
Morrison, Josiah, Anderson, Ind. Bicycle crank-shaft bearing	611,137	Sept. 20	1797	414	84	1822
Morrison, Laura E., et al. (See Morrison and Moran, assignors.)						
Morrison, Myron C., Stockholm, N. Y. Vehicle-brake	608,891	Aug. 9	1313	306	84	928
Morrison, Robert E., Rutherford, N. J. Bottle	614,487	Nov. 22	2268	519	85	1104
Morrison, Thomas. (See Slick and Morrison.)						
Morrissy, Rosemary. (See Morrissy, William P., assignor.)						
Morrissy, William P., assignor to R. Morrissy, Brooklyn, N. Y. Whist-table	598,803	Feb. 8	1245	301	82	856
Morrow, Alexander P., assignor of one-half to H. H. Fulton, Elmira, N. Y. Back-pedal-ing brake	611,073	Sept. 20	1664	381	81	1796
Morrow, Charley R., Pine, Ind. Fence-stay	608,961	May 10	1295	295	83	868
Morrow, George L. K., Detroit, Mich. Grate-bar and furnace	602,642	Apr. 19	1817	414 415	83	373
Morrow, George L. K., Detroit, Mich. Furnace	602,643	Apr. 19	1820	415 416	83	374
Morrow, James H., and J. A. Schmitz, Chicago, Ill. Disk harrow	613,291	Nov. 1	122	28, 29	85	640
Morrow, James H., and J. A. Schmitz, Chicago, Ill. Sectional disk harrow	613,292	Nov. 1	123	29	85	641
Morrow, John T., Great Falls, Mont. Means for securing metallic or other sheets together	600,498	Mar. 8	1616	369 370	82	1547
Morrow, Oliver A., Whitehall, Ill. Wire-fence machine	608,917	May 10	1227	278 279	83	655
Morse, Arthur A., La Crosse, Wis. Type-writing machine	599,187	Feb. 15	1897	449 450	82	995
Morse, Arthur J., assignor to Morse-Keefer Cycle Supply Company, Salisbury, Conn. Threading-machine	597,732	Jan. 25	2195	512 513	82	477
Morse, Arthur J., assignor to Morse-Keefer Cycle Supply Company, Salisbury, Conn. Trimming and drilling machine	601,379	Mar. 29	3130	707 708	82	1895
Morse, Clifton S., Newark, Ohio. Bicycle attachment	606,389	June 28	2526	586	83	1889
Morse, Elvin H., Colorado Springs, Colo. Seal-lock	607,260	July 12	1176	252	84	242
Morse, Everett F., Trumansburg, N. Y. Sprocket-and-chain gear	608,609	May 3	682	152	83	733
Morse, Frank, et al. (See Gannoe, Thomas A., assignor.)						
Morse, Frank B., Haverhill, Mass. Shoe	611,266	Sept. 27	2053	473	84	1890
Morse, Frank W., St. Joseph, Mo. Refrigerator shipping-case	608,701	Aug. 9	956	220	84	864
Morse, Frederick H., assignor of one-half to J. C. Somerville and W. F. Bell, St. Louis, Mo. Exhibitor for series pictures	607,761	July 19	2246	474	84	471
Morse, Frederick H., assignor of one-half to J. C. Somerville and W. F. Bell, St. Louis, Mo. Kinetographic camera	607,783	July 19	2286	482 483	84	478
Morse, Guy O., and E. D. Rich, Maquoketa, Iowa. Pipe-cutter	608,066	July 26	2853	609	84	609
Morse, Harvey B., Boston, assignor of one-half to C. F. Stranger, Plymouth, Mass. Automatic sand-box	596,527	Jan. 4	114	26	82	24
Morse, Joel N., Oneida, Kans. Stove	608,113	Apr. 26	2643	600	83	546
Morse, John T., New York, N. Y. Cylinder or tank head	612,050	Oct. 11	821	201	85	171
Morse-Keefer Cycle Supply Company. (See Morse, Arthur J., assignor.)						
Morse, Orville M., Jackson, Mich. Separator	606,292	June 28	2342	542 543 544	83	1854
Morse, Orville M., Jackson, Mich. Dust-collector	614,210	Nov. 15	1728	396 397	85	991
Morse & Son, A. J. (See Crawford, William K., assignor.)						
Morse Williams & Company. (See Bates, Francis A., assignor.)						
Morton, Albert H., Lowell, Mass. Oil-groove-cutting machine	596,528	Jan. 4	115	26, 27	82	24
Morton, Albert H., Lowell, Mass. Milling-cutter	604,776	May 31	2847	651	83	1236
Morton-Brown, Ernest A., assignor of one-half to F. Maundrell, Woodstock, Canada. Apparatus for producing acetylene gas	616,130	Dec. 20	1679	391 392	85	1769
Morton, Henry D., San Francisco, Cal. Express-wagon	607,120	July 12	914	198	84	195
Morton, Horace J., Chicago, Ill. Lumber-drier	597,543	Jan. 18	1874	434	82	398
Morton, William, Dunedin, New Zealand. Gold-saving apparatus	610,410	Sept. 6	515	112	84	1537
Morton, William M., assignor to H. B. Ives, New Haven, Conn. Sash-cord fastener	613,932	Nov. 8	1250	284	85	875
Morton, Worthington E., Clover, S. C., assignor of one-half to Draper Company, Portland, Me., and Hopedale, Mass. Bobbin-holder	614,488	Nov. 22	2270	519	85	1105



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Mortson, George. (See Smith and Mortson.)						
Mortson, George, Hartford, Conn. Paper-bag machine	614,123	Nov. 15	1576	360 361	85	961
Mosby, James D. (See Hardin and Mosby.)						
Moscrop, James G., San Bernardino, Cal. Ecraseur	612,569	Oct. 18	1725	409	85	355
Moseley, Joseph, Manchester, England. Pneumatic tire	596,819	Jan. 4	641	147	82	124
Moseley, Marion S., Franklin, Tex. Word-counter for type-writing machines	608,428	Aug. 2	471	106	84	749
Moseley, Moss, and P. Funck, Rochester, N. Y.; said Funck assignor to said Moseley						
Automatic switch for regulating electric air-compressors	608,340	Aug. 2	318	70	84	719
Moser, George E., assignor of one-half to G. W. Rhine, Altoona, Pa. Churn	599,723	Mar. 1	80	18, 19	82	1231
Moser, Joshua D., Orrville, Ohio. Washing-machine	603,511	May 3	500	109	83	698
Moses, Arthur C. (See Bucklin, John E., assignor.)						
Moses, Joseph, Toronto, Canada. Scoop	600,592	Mar. 15	1781	407	82	1597
Moses, Otto A., New York, N. Y. Fabric	605,567	June 14	923	216	83	1551
Moses, William S., Tracy, Minn. Reed-organ	604,070	May 17	1546	347 348	83	950
Mosher & Curtis, <i>et al.</i> (See Boxley, George, assignor.)						
Mosher, John A., Chicago, Ill. Acetylene-gas generator	616,483	Dec. 27	2369	550	85	1929
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois.						
Photographic camera	598,804	Feb. 8	1247	302	82	856
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois.						
Magazine-camera	599,188	Feb. 15	1900	450	82	996
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois.						
Hasp-fastener	605,645	June 14	1080	248	83	1578
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois.						
Photographic shutter	615,296	Dec. 6	134	36	85	1439
Mosher, John A., assignor to Adams & Westlake Company, Chicago, Ill. Photographic shutter						
	615,297	Dec. 6	136	36	85	1440
Mosher, Orin B., Joliet, Ill. Handle-bar	604,071	May 17	1551	348	83	951
Mosler Safe Company. (See Gesswein, Gustav J., assignor.)						
Moss, Dan C., assignor of one-half to E. S. Candler, Sr., Iuka, Miss. Combined match-safe and cigar-cutter	616,247	Dec. 20	1927	446	85	1820
Moss, Isidor, Waltham, Mass. Device for forming Breguet coils	615,035	Nov. 29	3286	756	85	1314
Moss, Jasper H., assignor of forty-nine one-hundredths to C. J. Brown, Topeka, Kans. Generating gas from kerosene, &c., by means of wicks	608,394	Aug. 2	402	89	84	735
Moss, Jasper H., assignor of forty-nine one-hundredths to C. J. Brown, Topeka, Kans. Burner and chimney-holder	608,395	Aug. 2	408	89	84	737
Moss, John, and C. G. Beechey, Liverpool, England. Coin-freed assurance apparatus	612,784	Oct. 18	2123	504 505	85	431
Moss, John O., Delba, Tex. Foldable crate or coop	616,550	Dec. 27	2495	577	85	1952
Moss, Josiah B. (See Miller and Moss.)						
Moss, Ransom E. (See Akers, Earl C., assignor.)						
Motherwell, David M., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivator	601,713	Apr. 5	178	35	83	35
Motherwell, David M., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivator	602,663	Apr. 19	1866	424	83	383
Motherwell, David M., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivator	604,172	May 17	1736	391	83	988
Motherwell, David M., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivator	608,411	Aug. 2	439	96, 97	84	743
Motherwell, David M., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivator	610,073	Aug. 30	3502	811	84	1396
Motley, Peter, Philadelphia, Pa. Nursery-gate	604,411	May 24	2185	439	83	1094
Motley, Peter, Philadelphia, Pa. Safety-gate	605,502	June 14	814	188	83	1530
Motley, Peter, Philadelphia, Pa. Nursery-gate	610,193	Sept. 6	75	16	84	1455
Motley, Thomas H., Granthorpe, assignor of one-half to W. H. Owen, Louth, England. Manure-distributor	605,002	May 31	3216	740	83	1306
Mott, Abram C., and A. C. Edgar, Philadelphia, Pa.; said Edgar assignor to said Mott. Relief device for hot-water heaters	600,440	Mar. 8	1484	339	82	1522
Mott, Abram L. (See Milne and Mott.)						
Mott, Arthur F., and H. S. Dunn, Jr., Brooklyn, N. Y. Non-refillable bottle	603,701	May 10	834	185	83	779
Mott, George H. (See Rogers, Omar A., assignor.)						
Mott, George H., West Union, assignor of one-half to O. A. Rogers, Fayette county, Iowa. Farm-gate	597,169	Jan. 11	1244	292	82	259
Mott, George S., Babylon, N. Y. Pigeon-trap	614,331	Nov. 15	1968	454	85	1034
Mott, Malcolm C. (See Acker, Frederick H., assignor.)						
Motteler, George L., Louisville, Ky. Shoe-upper	613,821	Nov. 8	1073	244	85	841
Mouat, Laurence, Jr., Denver, Colo. Cylinder-lock and key	598,469	Feb. 1	682	167	82	732
Mougin, Adolphe, Paris, assignor to La Société les Fils d'Adolphe Mougin, Héricourt, France. Electric-arc lamp	597,424	Jan. 18	1670	388 389	82	358
Moulard, Edouard, and J. Guény, Lyons, France. Apparatus for blotting or drying writing	609,158	Aug. 16	1852	440	84	1042
Moulton, Charles J., Chatteris, and A. J. Keeble, Peterborough, England. Potato-digging machine	609,289	Aug. 16	2106	499	84	1094
Moulthrop, Samuel P., Rochester, N. Y. Wardrobe	601,855	Apr. 5	464	94	83	86
Moulton, Claudius B., Somerville, Mass. Journal-box	611,642	Oct. 4	89	22	85	20
Moulton, Luther V., Grand Rapids, Mich. Gage for shears	599,659	Feb. 22	2813	654	82	1196
Moulton, T. E. (See Wolfe, Ernest R., assignor.)						
Moulton, Walter E., Shelby, Ohio. Umbrella	599,623	Feb. 22	2729	638	82	1178
Moulton, Walter E., Shelby, Ohio. Garment-supporter	606,729	July 5	165	37	84	34
Mound City Paint and Color Company. (See Brown, Charles A., assignor.)						
Mound City Wood Novelty Company. (See Morrison and Tracy, assignors.)						
Mountford, Edward J. D., <i>et al.</i> (See Bosanko, Alexander, assignor.)						
Mowe, George H., Watertown, N. Y. Catch-basin and sewer-trap	611,074	Sept. 20	1665	382	84	1797
Mower, Eugene B., Minneapolis, Minn. Soda-water fountain	603,856	May 10	1123	252 253	83	835
Mower, Samuel E., assignor to H. G. Thompson & Son, New Haven, Conn. Prepayment attachment for meters	604,173	May 17	1739	392 393	83	988
Mower, Samuel E., assignor to H. G. Thompson & Son, New Haven, Conn. Registering mechanism for meters	604,174	May 17	1745	393	83	990
Mower, Samuel E., assignor to H. G. Thompson & Son, New Haven, Conn. Coin-counting and recording mechanism for meters	604,175	May 17	1747	393 394	83	990
Moxham, Arthur J., assignor to Johnson Company, Lorain, Ohio. Electric railway	605,503	June 14	816	189	83	1530
Moxham, Arthur J., assignor to Cochran Company, Lorain, Ohio. Gate-valve	605,968	June 21	1720	394	83	1716
Moxley, Richard J., assignor to Empire Type Setting Machine Company, New York, N. Y. Device for lifting feeler-hooks of type-distributing machines	597,544	Jan. 18	1876	435	82	399



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Moxley, Richard J., assignor to Empire Type Setting Machine Company, New York, N. Y. Type-setting machine	606,678	July 5	80	17	84	18
Moxley, Richard J., assignor to Empire Type Setting Machine Company, New York, N. Y. Type-distributing machine	609,453	Aug. 23	2401	563	84	1170
Moxon, Joseph. (See Jeffery and Moxon.)						
Moy, Robert, Modena, Wis. Straw-stacker	601,667	Apr. 5	75	15	83	16
Moyer, Harvey A., Syracuse, N. Y. Spring-vehicle	615,873	Dec. 13	1173	274	85	1655
Moyer, Harvey A., Syracuse, N. Y. Vehicle running-gear	615,874	Dec. 13	1174	274 275	85	1655
Moyer, Harvey A., Syracuse, N. Y. Running-gear for vehicles	616,004	Dec. 13	1434	335 336	85	1705
Moyer, Harvey A., and C. J. Graf, Syracuse, N. Y.; said Graf assignor to said Moyer. Thill-coupling	610,768	Sept. 13	1128	259 260	84	1676
Moyer, Jesse H., Temple, Tex. Piano attachment	601,156	Mar. 22	2709	623	82	1788
Moyer, Jesse H., Temple, Tex. Piano attachment	601,157	Mar. 22	2711	623	82	1788
Moyer, Solomon R. (See Heiser and Moyer.)						
Moyer, William R., Lykens, Pa. Water-motor	609,692	Aug. 23	2848	666	84	1255
Moyers, Henry W., et al. (See Knight, Abraham H., assignor.)						
Moyers, Homer M., et al. (See Knight, Abraham H., assignor.)						
Moyers, James M. (See Ritter and Moyers.)						
Moyes, Laurie M., Philadelphia, Pa. Water-tube boiler	604,777	May 31	2848	651	83	1236
Moyet, Alfred, Lyons, France. Sterilizing apparatus	605,738	June 14	1236	286	83	1608
Muckle, Henry A., St. Paul, Minn. Running-gear for vehicles	615,733	Dec. 13	943	219	85	1610
Muckleroy, George L., Nacogdoches, Tex. Cotton-scraper	615,875	Dec. 13	1175	275	85	1655
Mudd, Frank X. (See Bradley, Rodney D., assignor.)						
Muddiman, Henry C., assignor of one-half to J. A. Nicol, Manassas, Va. Car-coupling	614,489	Nov. 22	2271	519	85	1105
Muehleisen, Carl, Baltimore, Md. Linotype-machine	608,067	July 26	2855	609 610 611	84	609
Muehleisen, Carl, Baltimore, Md. Line-closing attachment for linotype-machines	608,155	July 26	2993	642 643 129	84	636
Muehleisen, Carl, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	610,454	Sept. 6	582	130 131 207 208	84	1550
Mueller, Frederick T., assignor of one-half to T. J. Kieley, New York, N. Y. Valve-controlling apparatus	598,571	Feb. 8	865	208	82	785
Mueller, George A., Cincinnati, Ohio, assignor, by mesne assignments, to Yawman & Erbe, Rochester, N. Y. Foil-removing apparatus	606,154	June 21	2066	475	83	1780
Mueller, Henry, Decatur, Ill. Tapping-machine	611,387	Sept. 27	2295	530	84	1934
Mueller, John, Lisbon, N. D. Hay-fork	612,527	Oct. 18	1637	391	85	339
Mueller, John, assignor to Duplex Hanger Company, Cleveland, Ohio. Electric-arc-lamp	602,404	Apr. 12	1410	318	83	284
Mueller, John M., Jr., Cincinnati, Ohio. Polishing marble	601,668	Apr. 5	79	16	83	16
Mueller, Philip, Decatur, Ill. Pipe-reamer	605,893	June 21	1567	361	83	1689
Muffy, Clarence M., Howard, Pa. Key-holder	605,584	June 14	958	222	83	1557
Mugrauer, Dismas, and P. Totzauer, Philadelphia, Pa. Dish composed of candy	612,806	Oct. 18	2166	515	85	439
Mulcahy, Michael C., assignor of one-half to J. Madden, Cohasset, Mass. Lock-hinge	615,654	Dec. 6	808	187	85	1572
Mulder, Martienus, New Baltimore, N. Y. Snow-scraper	615,036	Nov. 29	3289	756	85	1314
Muhlenfels, Charles, New York, N. Y. Bicycle-brake	603,774	May 10	958	214	83	803
Muhlhauser, Sigmund, Cleveland, Ohio. Sample-exhibiting book	596,607	Jan. 4	265	59	82	53
Mühlinghaus, Fritz, Barmen, Germany. Jacquard-machine for looms	607,945	July 26	2628	558	84	562
Muhr, Joseph, Dunkirk, N. Y. Closure for couplings	605,323	June 7	503	112	83	1448
Muir, John S., San Francisco, Cal. Therapeutic electrode	600,290	Mar. 8	1242	282	82	1476
Muir, William, (See Hammond, William, assignor.)						
Mulcahy, Timothy, New York, N. Y. Support for feed-bags	607,449	July 19	1526	325	84	328
Mulconroy, James J., et al. (See Armstrong, Ernest, assignor.)						
Muldoon, Charles J., Rochester, N. Y. Stopper for bottles, &c.	608,296	Aug. 2	220	51	84	698
Mullane, Patrick, Moline, Ill. Hasp-fastener	607,873	July 26	2505	531	84	538
Mullane, Patrick, Moline, Ill. Garment-supporter	614,570	Nov. 22	2396	547	85	1128
Mullen, Charles R., assignor of one-half to H. H. Klock, Cincinnati, Ohio. Shirt-collar fastener	599,530	Feb. 22	2555	600	82	1145
Mullen, Leonard D., and W. C. Shannon, Selma, Ala. Bandage-rolling machine	615,298	Dec. 6	198	36, 37	85	1440
Mullenhoff, Leopold, Buffalo, N. Y. Trap for sinks, &c.	605,202	June 7	270	62	83	1401
Müller, Adolph, Hagen, Germany. Transformation of alternating currents into direct currents	599,789	Mar. 1	196	49	82	1252
Müller, Adolph, Hagen, Germany. Transformer system and apparatus	614,571	Nov. 22	2398	548	85	1128
Müller, Albert, Berlin, Germany. Receptacle for drawing off liquids by means of liquid carbonic acid	613,804	Nov. 8	1046	237 238	85	836
Müller, Carl A., and G. Hinman, San Francisco, Cal. Window-cleaning seat	605,610	June 14	1009	233	83	1565
Müller, Frank, assignor to F. Buchmüller, New York, N. Y. Foot-rest for boot-blackening stands	610,363	Sept. 6	425	91, 92	84	1521
Muller, Fritz. (See Bille, Numa A., assignor.)						
Müller, Henry, London, England. Tuning-pin	602,514	Apr. 19	1595	365	83	333
Müller, Henry, London, England. Musical stringed instrument	609,897	Aug. 30	3189	747 748	84	1335
Müller, Hugo, Aachen, Germany. Valve for steam-engines	608,525	Aug. 2	632	142	84	780
Müller, I. T. (See Heine, Arthur, assignor.)						
Müller, Rudolf, Linz, Austria-Hungary. Machine for lifting doors and holding same	604,833	May 31	2936	671	83	1253
Müller-Thurgau, Hermann, Waedensweil, Switzerland. Coloring and preserving fruit-juices	606,976	July 5	591		84	118
Mulligan, John, Dayton, Ohio. Cooking-boiler	607,884	July 12	1404	300	84	288
Mullin, Charles C. B. (See Harlan and Mullin.)						
Mullin, Joseph P., Arlington, N. J., assignor of one-half to J. H. Fogarty, New York, N. Y. Split gear-wheel	596,784	Jan. 4	385	135	82	112
Mullins, Michael, and C. Fleming, U. S. Army. Rail-joint and nut-lock	605,739	June 14	1237	236	83	1608
Mulloy, P. J. (See Feeney, Frank, assignor.)						
Multiple Power Company. (See Fefel, Henry H., assignor.)						
Muma, Charles. (See Wilson, Unger, Muma, Brosius, and Kuchel.)						
Muma, Charles. (See Wilson, Muma, Unger, Schneckloth, Brosius, and Kuchel.)						
Mumford, Arthur G., Colchester, England. Steam-generator	607,067	July 12	804	176	84	175
Mumford, Arthur G., Colchester, England. Feed-water regulator for boilers	607,261	July 12	1178	252	84	242
Mumford, George. (See Morris and Mumford.)						
Mumford, James T., Central City, Iowa. Door-check	597,425	Jan. 18	1675	389	82	358
Mumford, James T., Central City, Iowa. Support for picture-frames	597,426	Jan. 18	1676	389	82	359
Mumford, Joseph A., Hantsport, Canada. Excavating or dredging bucket	598,292	Feb. 1	400	94	82	677
Mumford, Joseph A., Hantsport, Canada. Towing-machine	616,580	Dec. 27	2538	587 588	85	1959



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Mumford, Joseph J. (See Lawrence, George E., assignor.)						
Muncaster, Walter J., assignor of one-half to Cumberland Iron and Steel Shafting Company, Cumberland, Me. Tool holder or carrier	605,504	June 14	817	189	83	1530
Munch, Walter, St. Paul, Minn. Gluing-machine	598,616	Feb. 8	935	224 225	82	799
Munday, William S., Hattiesburg, Miss., assignor, by mesne assignments, of one-half to S. Z. Cohen, New Orleans, La. Machine for preparing wood for fuel	609,114	Aug. 16	1782	424	84	1029
Munde, Patrick, Easthampton, Mass. Fruit-picker	603,918	May 10	1230	279	83	855
Mundhenk, Clement L. V., and W. I. Christian, West Baltimore, Ohio. Mail-pouch fastener	615,876	Dec. 13	1176	275	85	1655
Mundy, Joseph S., Newark, N. J. Friction-drum	616,198	Dec. 20	1822	421	85	1799
Munger, Andrew J., Antwerp, Ohio. Stay for wire fences	615,401	Dec. 6	353	84	85	1481
Munger, Elbert E., Spencer, Iowa. Bed	602,347	Apr. 12	1309	291	83	264
Munger, Robert H., Quimby, Iowa. Uncoupling-lever	600,549	Mar. 15	1711	392	82	1585
Munkwitz, Reinhold. (See Bortmann and Munkwitz.)						
Munn, Frank E., New York, N. Y. Opener for envelops or wrappers	599,724	Mar. 1	81	19	82	1232
Munn, George F. (See Lane, Levi E., assignor.)						
Munn, Silas W., Mannington, W. Va. Cutting and joint-indicating device for well tubes or casings	598,805	Feb. 8	1249	302	82	856
Munro, Alexander F. (See Junkins, Leander D., assignor.)						
Munro, George W. (See Fuller, J. Ensign, assignor.)						
Munsche, Albert, Altona, Germany. Manufacture of malt-wines	612,746	Oct. 18	2047		85	416
Munsell, Harvey M., et al. (See Sheriff, James E., assignor.)						
Munson, Harvey S., New Haven, Conn. Paper box	602,664	Apr. 19	1868	425	83	384
Munson, John W., New York, N. Y. Punch for stencil-cutting machines	612,169	Oct. 11	1025	247 248	85	211
Munson, Peter, et al. (See Johnson, Gustaf, assignor.)						
Munton, James, Maywood, Ill. Car-coupling	612,051	Oct. 11	823	202	85	171
Munyon, James M., Philadelphia, Pa. Inhaler	610,717	Sept. 13	1035	239	84	1659
Murdock, George F., Wellsville, Ohio. Stair-carpet fastener	602,348	Apr. 12	1310	292	83	264
Murdock, Herman E., Portland, Me. Lens-grinding machine	615,089	Nov. 29	3388	776	85	1332
Murdock, Horace B., assignor to Anderson Safety Elevator Company, Limited, Detroit, Mich. Elevator-hatchway cover	599,857	Mar. 1	340	77, 78	82	1278
Murdock, Samuel B., Chicago, Ill. Cleaner for water-tube boilers	614,881	Nov. 29	2973	682	85	1252
Murdock, William N., assignor to J. C. Hollings, Boston, Mass. Hat-fastener	605,116	June 7	80	23	83	1367
Murdock, William N., Boston, and J. C. Hollings, Cambridge, Mass.; said Murdock assignor to said Hollings. Vehicle-tire	605,117	June 7	81	23	83	1368
Murfin, Thomas J., Sleepy Eye, Minn. Drainable pipe for tanks	605,295	June 7	457	102	83	1439
Murgatroyd, Frank, Cleveland, Ohio. Bicycle-brake	598,530	Feb. 8	794	190	82	770
Muriaty, John S. (See Benville, Benedict, assignor.)						
Murkland, Charles S., Durham, N. H. Shaft connection	597,506	Jan. 18	1823	422	82	388
Murney, Henry J., Goderich, Canada. Filtering device	598,383	Feb. 1	532	130	82	703
Murphey, Frank P., et al. (See Johnston, John S., assignor.)						
Murphey, Frank P., assignor of one-half to R. G. Green, Chicago, Ill. Folding crate	607,121	July 12	916	198	84	195
Murphey, William R., et al. (See Schwechler, John, assignor.)						
Murphy, Benjamin F., Burlington, Mo. Rotary steam-engine	601,158	Mar. 22	2712	624	82	1789
Murphy, Edward A., and J. D. Waters, Bonner Springs, Kans. Moth and insect trap	598,950	Feb. 15	1507	358 359	82	922
Murphy, Edward E., Boston, Mass., assignor to New Era Process Company, of West Virginia. Carbonating apparatus	609,040	Aug. 16	1630	389	84	1003
Murphy, Edward E., Boston, Mass., assignor to New Era Process Company, of West Virginia. Carbonating apparatus	609,238	Aug. 16	2011	477	84	1075
Murphy, Francis H., and M. R. Pierce, New York, N. Y. Changeable gear for bicycles or similar driving mechanisms	614,969	Nov. 29	3152	724 725	85	1289
Murphy, Frank J. (See White and Murphy.)						
Murphy, George E., Lyons, Kans. Game apparatus	611,758	Oct. 4	286	68	85	59
Murphy, James, et al. (See Murphy, John F., assignor.)						
Murphy, James, assignor to Eagle Lock Company, Terryville, Conn. Padlock	605,740	June 14	1238	286	83	1608
Murphy, James E., Lynn, Mass. Paint-brush	613,845	Nov. 8	1108	252	85	848
Murphy, James J., New York, N. Y. Arithmetic puzzle	609,995	Aug. 30	3378	784	84	1372
Murphy, James K., Washington, D. C. Extension-brace for excavations	606,631	June 28	2961	687	83	1975
Murphy, Jeremiah H., Flatonia, Texas. Endless band or cord	606,933	July 5	523	114 115	84	104
Murphy, John. (See Groupe, Andrew V., assignor.)						
Murphy, John F., assignor of two-thirds to J. Murphy and L. T. Lochner, Adrian, Mich. Bicycle	602,034	Apr. 5	772	167	83	146
Murphy, John F., assignor to Cooke Locomotive and Machine Company, Paterson, N. J. Interceiving-valve for compound engines	607,569	July 19	1919	397 398	84	409
Murphy, John H., New York, N. Y. Manifold cash-sales book	602,405	Apr. 12	1411	319	83	284
Murphy, John H., and I. Halferty, Packwood, Iowa. Washing-machine	615,570	Dec. 6	657	151	85	1540
Murphy, John M., Torrington, Conn., assignor to Safety Third Rail Electric Company, of New Jersey. Electric-railway system	599,344	Feb. 22	2192	521	82	1073
Murphy, John M., Torrington, Conn., assignor of two-thirds to D. F. Halsted, New York, N. Y., and W. M. Keepers, Newark, N. J. Electric switch mechanism for electric railways	614,124	Nov. 15	1582	362	85	962
Murphy, John M., Torrington, Conn., assignor of two-thirds to D. F. Halsted, New York, N. Y., and W. M. Keepers, Newark, N. J. Ball-bearing for electric motors	616,063	Dec. 13	1539	360	85	1726
Murphy, Michael A., Brooklyn, N. Y. Nut-lock	597,823	Jan. 25	2360	551	82	508
Murphy, Peter H. (See Lewis and Murphy.)						
Murphy, Peter H., East St. Louis, Ill. Center-bearing	602,089	Apr. 12	866	188	83	175
Murphy, Peter H., East St. Louis, Ill. Center-bearing	602,090	Apr. 12	867	188	83	176
Murphy, Peter H., East St. Louis, Ill. Side bearing	611,925	Oct. 4	575	139	85	113
Murphy, Thomas J. (See McClafferty, Patrick, assignor.)						
Murphy, Thomas J., New York, N. Y. Junction-box	614,882	Nov. 29	2976	682	85	1253
Murphy, Timothy W., Washington, D. C. Rail-chair	601,584	Mar. 29	3471	790 791	82	1963
Murphy, William, New York, N. Y. Stone-sawing machine	608,703	Aug. 9	958	220 221	84	864
Murphy, William A. (See Eilers, Bernerd, assignor.)						
Murphy, William B., New York, N. Y. Fastening device for gloves	614,817	Nov. 22	2843	655	85	1212
Murphy, William F., Iowa City, Iowa. Hanger for electric lamps	609,972	Aug. 30	3334	776	84	1363
Murphy, William F., assignor of one-fourth to T. H. Doherty, Boston, Mass. Wrench	613,213	Oct. 25	2867	676	85	596
Murray, Louis T., Mansfield, Tex. Wire-weaving device	597,120	Jan. 11	1166	274	82	243
Murray, Catherine A., and R. Schultheiss, Indianapolis, Ind. Envelop	596,608	Jan. 4	266	59	82	53
Murray, Charles T., Kansas City, Mo. Stereotype-plate	605,894	June 21	1568	361	83	1689
Murray, Charles T., Kansas City, Mo. Steam-generator	605,895	June 21	1570	361	83	1689



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Murray, Edward L., Buffalo, N. Y. Hand-stamp	611,926	Oct. 4	576	139	85	113
Murray, Emera A. (See Conway and Murray.)						
Murray, Frank H., Salina, Kans. Wagon-body lining	601,976	Apr. 5	684	145	83	129
Murray, George T., assignor of one-third to G. Phipps, Corsicana, Tex. Bed and cylinder printing-machine	602,406	Apr. 12	1413	319	83	284
Murray, Glenn B., Lakeland, Fla. Cabinet for medicine, &c	606,018	June 21	1815	418	83	1732
Murray, John. (See Garland and Murray.)						
Murray, John J., Meriden, Conn. Sand-distributing device	599,345	Feb. 22	2195	521	82	1074
Murray, John S., Chicago, Ill. Temporary binder	613,070	Oct. 25	2617	619	85	548
Murray, Kenneth S., assignor of one-half to T. N. Hester, London, England. Driving mechanism for velocipedes	608,341	Aug. 2	319	70	84	719
Murray, May, Detroit, Mich. Glove	605,505	June 14	819	190	83	1531
Murray, Nicholas C., Kingston, Tex. End-gate lock	608,892	Aug. 9	1314	307	84	929
Murray, Sampson E. (See Garland and Murray.)						
Murray, Thomas J., Butte, Mont. Air and water heating apparatus for locomotives	610,074	Aug. 30	3504	812	84	1397
Murray, Thomas J., Butte, Mont. Locomotive-engine	610,075	Aug. 30	3506	812 813 454 455	84 84 85	1397 1084
Murray, Thomas R., Glasgow, Scotland. Apparatus for condensing steam	614,332	Nov. 15	1969			
Murray, Thomas S. (See Draper, Harvey H., assignor.)						
Murray, William H., Tavistock, Canada. Combined door holder and lock	607,122	July 12	917	199	84	196
Murray, William T., Harrod, Ohio. Folding truck	614,176	Nov. 15	1659	381	85	977
Murray, William W., assignor to Rochester Athenaeum and Mechanics Institute, Rochester, N. Y. Desk attachment	607,187	July 12	1037	224	84	217
Murrell, George B., Newport, Ky. Gasolene-stove	603,452	May 3	364	82	83	670
Murrey, Jasper, Cleveland, Ohio. Gravity-railway	608,787	Aug. 9	1097	253 254	84	889
Murry, Ervin E., Literberry, Ill. Fence-post	598,713	Feb. 8	1115	268	82	831
Murtagh, Bernard, Hewlett's, N. Y. Combined chair and bed	606,488	June 28	2698	622	83	1924
Musgrave, Samuel M., assignor of one-half to B. W. Brown, Belts, Tenn. Washing-machine	611,701	Oct. 4	197	46	85	41
Musgrove, Charles M., Pittsfield, Mass. Cloth-napping mechanism	600,885	Mar. 22	2276	519	82	1705
Musgrove, John T. (See Hughes and Musgrove.)						
Muslar, Nelson, West Boylston, assignor to J. Joyce, Andover, Mass. Automatic feed device for bottle-stoppering machines	607,262	July 12	1178	252	84	243
Muslar, Nelson, West Boylston, assignor to J. Joyce, Andover, Mass. Feed device for bottle-stoppering machines	612,865	Oct. 25	2287	545 546	85	481
Musnicki, Antoine, Brussels, Belgium. Automatic safety device for lifts, hoists, &c	607,450	July 19	1527	325	84	328
Musser, Frank P., Beaver Falls, Pa. Extension-table	613,589	Nov. 1	664	153	85	742
Musson, Frederick W., Chicago, Ill. Pencil	612,431	Oct. 18	1483	358	85	309
Mustard, Horace R. (See Davis and Mustard.)						
Muston, Charles. (See Pastor, Salvador, assignor.)						
Muther, Lorenz, Oak Park, assignor to Union Special Sewing Machine Company, Chicago, Ill. Folding-guide for sewing-machines	605,324	June 7	504	112	83	1448
Muther, Lorenz, Oak Park, and E. C. Holland, Austin, assignors to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine	605,325	June 7	505	112 113	83	1449
Muthherr, Josef, Nuremberg, Germany. Cartridge	616,721	Dec. 27	2830	655	85	2016
Muus, Arthur H., assignor to Beaton & Corbin Manufacturing Company, Southington, Conn. Floor and ceiling plate	613,461	Nov. 1	445	101	85	701
Muzzy, Viola D., East Branch, Pa. Fly-escape	598,531	Feb. 8	795	190	82	770
Myer, Sydney, and H. W. Joyce, Hereford, England; said Myer assignor to said Joyce. Draw-off locking-tap	615,090	Nov. 29	3389	776	85	1332
Myers, C. B., et al. (See Black, Thomas C., assignor.)						
Myers, Charles E., assignor of one-half to J. G. Barton, Detroit, Mich. Burial-casket	604,334	May 17	2042	457	83	1046
Myers, Charles H., assignor to himself and P. L. Marvin, Buffalo, N. Y. Crude-oil burner	612,118	Oct. 11	939	227	85	194
Myers, Charles H., assignor to himself and P. L. Marvin, Buffalo, N. Y. Electric railway	612,457	Oct. 18	1524	366	85	317
Myers, Charles K., Stockton, Cal. Animal-exterminator	612,006	Oct. 4	721	173	85	141
Myers, Clarence A., Atlantic City, N. J. Electric railway	607,697	July 19	2148	452	84	452
Myers, Dora, Wauseon, Ohio. Non-refillable bottle	599,972	Mar. 1	546	125	82	1316
Myers, Elmer, assignor of one-half to G. Driggs, Dayton, Ohio. Window	616,484	Dec. 27	2371	550 551	85	1929
Myers, Francis M., assignor of one-half to C. A. Draper and J. S. Calfee, Windsor, Mo. Railway signaling device	616,722	Dec. 27	2831	655 656	85	2016
Myers, George A., et al. (See Gauntner, Rudolph L., assignor.)						
Myers, George F., assignor to Myers Mining Machine Company, Boston, Mass. Mining-machine	600,898	Mar. 15	2187	498 499	82	1674
Myers, George S., Riverside, Cal. Tree-prop bracket	606,823	July 5	348	74	84	70
Myers, J. E., et al. (See Morrett, Albert A., assignor.)						
Myers, John E., Springfield, Mo. Pipe-coupling	597,733	Jan. 25	2198	513	82	478
Myers, John E., Springfield, Mo. Key-guard	609,898	Aug. 30	3191	748	84	1335
Myers, Joseph W., Sikeston, Mo. Chute	604,834	May 31	2937	672	83	1253
Myers Mining Machine Company. (See Myers, George F., assignor.)						
Myers, Phineas B., New York, N. Y. Paper box	610,364	Sept. 6	427	92	84	1521
Myers, W. R., et al. (See Gibbs, James E., assignor.)						
Myers, William M., Hannibal, Mo. Salt-shaker	601,159	Mar. 22	2713	624	82	1789
Myers, William M., Rocklane, Ind. Fence-post	609,454	Aug. 23	2403	564	84	1170
Myles, Frederick F., New Orleans, La. Bath-salt	607,605	July 19	1983		84	421
Mytinger, Lewis J., Sacramento, Cal. Ore-washer	615,459	Dec. 6	453	106 107	85	1500
N. V. Perry Manufacturing Company. (See Perry, Nathaniel V., assignor.)						
Naab, William, and R. E. Grant, assignors of one-third to J. Oppenheer, Grand Rapids, Mich. Sewing-machine motor	611,928	Oct. 4	580	140	85	114
Nabors, W. E., et al. (See James, Will S., assignor.)						
Naef, Paul, Argentine, Kans. Rotary furnace	596,533	Jan. 4	126	28, 29	82	26
Nafew, Samuel. (See Doeblor, Charles F., assignor.)						
Nageborn, Wilhelm E., assignor of one-half to F. C. Andrews, Detroit, Mich. Bicycle	616,551	Dec. 27	2499	578	85	1952
Nagel, Oskar, Vienna, Austria-Hungary. Manufacture of compounds of pyroxylin	596,662	Jan. 4	361		82	71
Nagell, John R., Tacoma, Wash. Bicycle-frame	604,888	May 31	2946	673	83	1255
Nagle, William J., assignor to H. N. Bate & Sons, Ottawa, Canada. Paper-bag holder	615,736	Dec. 13	948	220	85	1611
Nagley, Jefferson J., Marysville, Wash. Door-guard	613,592	Nov. 1	667	154	85	743
Nairn, Michael B., Dysart, Scotland. Machinery for manufacturing linoleum	615,631	Dec. 6	765	176 177	85	1563
Naismith, Henry A. (See Merritt, Francis L., assignor.)						
Nalence, Charles, New York, N. Y. Musical instrument	601,100	Mar. 22	2620	598	82	1771



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Nalley, Thomas J. (See McLoed, Horace J., assignor.)						
Nance, Turner H., Talladega, Ala. Powder-divider	597,188	Jan. 11	1272	298	82	264
Napier, Charles, assignor to I. H. Dewey, Rochester, N. Y. Step and extension ladder	601,714	Apr. 5	179	35	83	35
Napier, Charles, assignor to I. H. Dewey, Rochester, N. Y. Extension-ladder	611,643	Oct. 4	90	22	85	20
Napier, John S., Vernon, Tex. Horse-detacher	600,207	Mar. 8	1101	251	82	1450
Napier, Montague S. (See Reinhard, Joseph, assignor.)						
Narber, Simon D. S., Le Grand, Iowa. Railway-tie plate	612,752	Oct. 18	2055	488	85	418
Nash, Camillus A. (See Lewis and Godwin, assignors.)						
Nash, Charles F., executor. (See Reinhard, Joseph.)						
Nash, Edwin A., <i>et al.</i> (See Schwarzschild, Solomon, assignor.)						
Nash, Henry M. (See Burroughs, William T., assignor.)						
Nash, John M., Milwaukee, Wis. Universal joint	599,189	Feb. 15	1903	450	82	996
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Journal-box	597,616	Jan. 18	1996	465	82	424
Nash, Myron H., Vicksburg, Mich. Threshing-machine	605,048	May 31	3296	756	83	1323
Nash, Samuel. (See Rouston, William H., assignor.)						
Nasmith, John W. (See Prost, Victor A., assignor.)						
Nasmith, Joseph, Manchester, England. Coin-free gas-meter	614,213	Nov. 15	1734	398	85	992
Nason, Joseph H., Somerville, Mass. Eyeglass-stud	608,214	Aug. 2	86	22	84	672
Nason, Joseph H., Somerville, assignor of one-half to H. M. Hewes, Boston, Mass. Self-threading shuttle for looms	599,860	Mar. 1	346	79	82	1279
Nason, Joseph H., Somerville, assignor of one-half to H. M. Hewes, Boston, Mass. Self-threading shuttle for looms	599,861	Mar. 1	347	79	82	1279
Nason, Stephen J., South Berwick, Me. Sash-fastener	596,611	Jan. 4	272	60	82	54
Nastvogel, Oscar, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Diphenylnaphthylmethane dye	605,119	June 7	85	23	83	1368
Nathan, Albert F., Kansas City, Mo. Marking meats	605,120	June 7	87	23	83	1368
Nathan Manufacturing Company. (See Kaczander, Leopold, assignor.)						
Nathansohn, Oskar E., Copenhagen, Denmark. Tire for cycles or other vehicles	612,264	Oct. 11	1196	287	85	242
Nather, Frank, Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Railway-track structure	602,264	Apr. 12	1170	258	83	236
National Bakery Company. (See Lee and Pickford, assignors.)						
National Carbon Company. (See Richmond, Charles T., assignor.)						
National Cash Register Company. (See Blanchard, Allen I., assignor.)						
National Cash Register Company. (See Carney, Thomas, assignor.)						
National Cash Register Company. (See Cleal, Joseph P., assignor.)						
National Cash Register Company. (See McCormick, John H., assignor.)						
National Cash Register Company. (See Neer, Harry M., assignor.)						
National Cash Register Company. (See Reeves, Orwell C., assignor.)						
National Cash Register Company. (See Wythe, William W. and W. H., assignors.)						
National Computing Scale Company. (See Sanderson, William H., assignor.)						
National Computing Scale Company. (See Swihart, John H., assignor.)						
National Electrical Manufacturing Company. (See Banks, Walter F., assignor.)						
National Harrow Company. (See Babcock, Henry D., assignor.)						
National Harrow Company. (See Sharp, Charles S., assignor.)						
National Harrow Company. (See Sheibley, Jacob E., assignor.)						
National Harrow Company. (See Wiard and Burdick, assignors.)						
National India Rubber Company. (See Leigh, Richard A., assignor.)						
National Machine Company. (See Hogan, James T., assignor.)						
National Malleable Castings Company. (See Pope, Alfred A., assignor.)						
National Malleable Castings Company. (See Tower, Clinton A., assignor.)						
National Meter Company. (See Nash, Lewis H., assignor.)						
National Mold and Casting Company. (See Haley, William, assignor.)						
National Plunger Company. (See Cole, Marcellus, assignor.)						
National Projectile Works. (See Lisle, Myron C., assignor.)						
National Sewing Machine Company. (See Brown, Willis S., assignor.)						
National Specialty Manufacturing Company. (See Arnold, Samuel C., assignor.)						
National Specialty Manufacturing Company. (See Paige, Charles F., assignor.)						
National Time Recorder Company. (See Busenbenz, Jacob J., assignor.)						
National Tooth Company. (See Foster, Charles E., assignor.)						
National Tube Works Company. (See Holinger, Emil F., assignor.)						
National Type Writer Company. (See Unz, Henry H., assignor.)						
National Waste Utilization Company. (See Richardson, Winfield S., assignor.)						
National Water Bronze Company. (See Schwenterley, Adolf, assignor.)						
Natschke, William F., Buckley, Ill. Cultivator and draft-equalizer	616,345	Dec. 20	2102	489 490	85	1855
Naughton, James. (See Reidy and Naughton.)						
Naulder, John S., McKeesport, Pa. Dental plate	615,404	Dec. 6	357	85	85	1482
Naulder, John S., McKeesport, Pa. Dental plate	615,405	Dec. 6	359	86	85	1482
Nauman, Charles A., Daleville, Pa. Snap-hook for vehicle-poles	613,822	Nov. 8	1074	244	85	841
Naus, Theodore, Manitowoc, Wis. Mower attachment	604,779	May 31	2853	652	83	1237
Nax, William, Philadelphia, Pa. Tobacco-pipe	603,702	May 10	835	185	83	779
Naylor, James, Jr., Boston, Mass. Centrifugal machine	599,725	Mar. 1	82	19, 20	82	1232
Naze, Prosper. (See Dery, Louie, assignor.)						
Nazel, John, assignor to G. W. and J. H. Borton, Philadelphia, Pa. Magnetic tack-driver	608,555	Aug. 2	687	156	84	791
Neal, John W., Cifax, Va. Double-shovel plow	614,573	Nov. 22	2404	549	85	1129
Neal, Nathan P., Waxahachie, Tex. Life-insurance table or chart	602,035	Apr. 5	773	167 168	83	146
Neal, Thomas G., Warren, Pa. Hot-air furnace, &c	605,329	June 7	512	114	83	1451
Neal, William A., Bungers, W. V. Combined folding coop and trap	608,705	Aug. 9	963	222	84	865
Nealon, John J., assignor to M. J. Nealon, Bayonne, N. J., and H. Binney, New York, N. Y. Hose-supporter	603,430	May 3	322	72	83	661
Nealon, Mary J., <i>et al.</i> (See Nealon, John J., assignor.)						
Nearn, Columbus C., Fowlkes, Tenn. Fence-post	600,372	Mar. 8	1370	313	82	1500
Nease, David A. (See Gilliland, James F., assignor.)						
Nebendahl, Carl F., Wandsbeck, Germany. Automatic igniting device for gas-lamps, &c	604,074	May 17	1558	349	83	952
Neeb, William, Cross Plains, Tex. Implement for stretching wire-fence strands	606,070	June 21	1914	440	83	1751
Needels, James H., Atlanta, assignor of one-third to G. C. Hays, Williamsport, Ohio. Acetylene-gas generator	612,753	Oct. 18	2056	488	85	418
Neef, Julius, Philadelphia, Pa. Tubular pneumatic-organ	609,362	Aug. 16	2226	526 527	84	1118
Neeley, George S., A. Maitland, and G. Birkicht, Pacific, Mo. Combination-tool	604,478	May 24	2315	525	83	1117
Neeley, George S., assignor of two-thirds to A. Maitland and G. E. Birkicht, Pacific, Mo. Means for throwing sewing-machines into or out of gear	609,973	Aug. 30	3335	776 777	84	1363
Neely, Samuel M., Rock Hill, S. C. Bale-tie	616,552	Dec. 27	2501	578	85	1953



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Neemes, Spencer. (See Norton and Neemes.)						
Neer, Adam, St. Paris, Ohio. Corn-harvester	605,121	June 7	88	24	83	1368
Neer, Harry M., Springfield, assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash register and indicator	599,625	Feb. 22	2732	638 639 640	82	1179
Nef, John J., New York, N. Y. Air-brake	602,094	Apr. 12	873	189 190	83	177
Nef, John J., New York, N. Y. Air-brake	609,041	Aug. 16	1633	390	84	1004
Nef, John J., New York, N. Y. Air-brake	609,042	Aug. 16	1634	390	84	1004
Neff, Elijah, assignor to E. W. Higbee, Milford, Ind. Pumping apparatus for water-dis-tributing systems	608,991	Aug. 9	1512	357 358	84	961
Neff, John J., Bolton, Mo. Hay stacker or ricker	597,586	Jan. 18	1946	453	82	413
Negbauer, Walter L., Brookline, Mass. Automatic cut-out for secondary batteries	607,124	July 12	920	200	84	196
Negbauer, Walter L., Brookline, and J. J. Feely, Walpole, Mass. Method of and appa-ratus for generating electricity	607,125	July 12	922	200	84	197
Nehmann, Andreas. (See Stark, August, assignor.)						
Nehr, Herman F., Brooklyn, N. Y. Candelabrum	599,190	Feb. 15	1905	451	82	936
Nehr, Herman F., New York, N. Y. Gate-hinge	610,820	Sept. 13	1227	282	84	1696
Nehr, Herman F., New York, N. Y. Candelabrum	610,821	Sept. 13	1229	283	84	1696
Nehr, Herman F., New York, N. Y. Praying or confessional stand	615,096	Nov. 29	3399	779 780	85	1333
Nehring, Ludolph, et al. (See Le Duc, Joseph E., assignor.)						
Nehring, William, Evansville, Ind. Step-ladder	606,071	June 21	1915	440	83	1751
Neidhardt, Henry, Brooklyn, N. Y. Saw-set	603,536	May 3	549	120	83	706
Neil, James, London, England. Furnace-grate	616,133	Dec. 20	1699	395	85	1773
Neil, John, Chicago, Ill. Drive-chain	615,882	Dec. 13	1188	278	85	1657
Neil, Michael, and F. H. Bissell, Dayton, Ohio. Wire fence	601,272	Mar. 29	2956	668 669	82	1863
Neil, Michael, and F. H. Bissell, Dayton, Ohio. Wire-fence stay	601,671	Apr. 5	83	17	83	17
Neil, Michael, and F. H. Bissell, Dayton, Ohio. Wire fence	602,867	Apr. 26	2211	501	83	465
Neil, William, assignor to J. H. Smith, Chicago, Ill. Photographic-negative washer	609,900	Aug. 30	3194	749	84	1336
Neil, William, assignor to J. H. Smith, Chicago, Ill. Photographer's lantern	610,194	Sept. 6	77	16	84	1455
Neill, Burton J. (See Blackman, Cone, and Neill.)						
Neilson, E. W. (See Bowling, William, assignor.)						
Neilson, James F., New Westminster, Canada. Can-end-crimping machine	607,266	July 12	1189	254	84	245
Nelden, William A. (See Robinson and Nelden.)						
Nell, George W., Philadelphia, Pa. Current-collector for dynamo-electric machines	600,088	Mar. 1	846	195	82	1380
Nell, James A., Walden, N. Y. Pocket-knife	600,442	Mar. 8	1486	339	82	1522
Nelson, Andrew V., Galesburg, Ill. Pulverizer and harrow	610,456	Sept. 6	589	131	84	1552
Nelson, Annie. (See Fairman, Stephen S., assignor.)						
Nelson, Arthur W., Chicago, Ill. Loose pulley and means for attaching same to shafts	615,883	Dec. 13	1189	278	85	1658
Nelson, Carl A. (See Doty, Aaron B., assignor.)						
Nelson, Charles A. (See Olund, Axel A., assignor.)						
Nelson, Charles A., Ithaca, Mich. Wire-stretcher	598,641	Feb. 8	984	237	82	807
Nelson, Charles F., assignor of one-half to J. H. Bloomfield, Galesburg, Ill. Combined mailing-signal and door-bell	602,997	Apr. 26	2441	557	83	508
Nelson, Charles F., assignor of one-half to J. H. Bloomfield, Galesburg, Ill. Animal-trap	612,866	Oct. 25	2292	546	85	481
Nelson, Charles O., assignor of one-half to A. H. Peirce, Chicago, Ill. Toe-clip for bicy-cle-pedals	608,620	Aug. 9	806	186	84	834
Nelson, Charles O., assignor of one-half to A. H. Peirce, Chicago, Ill. Toe-clip for bicy-cle-pedals. (Reissue)	11,698	Oct. 18	2175	517	85	441
Nelson, Charles T., assignor of one-third to H. O. Hammer, Chicago, Ill. Automatic ma-chine for making screws or other articles	614,214	Nov. 15	1736	399	85	992
Nelson, Christ, and J. E. Jones, Toronto, S. D. Reversing mechanism for steam-engines	598,433	Feb. 1	632	155	82	723
Nelson, Christian, and H. F. S. Justeson, Arrowsmith, Ill. Potato-bug destroyer	604,631	May 24	2583	589	83	1167
Nelson, E. F. (See Fehring, Charles W., assignor.)						
Nelson, Edward B., assignor to R. P. Scott, Cadiz, Ohio. Garment-fastener	615,361	Dec. 6	260	61	85	1464
Nelson, Edward H. O. (See Johnson, Adolph J., assignor.)						
Nelson, Erick. (See Fuhrmann and Nelson.)						
Nelson, Gulbrand. (See Walquist, Nelson, and Gronquist.)						
Nelson, Nels, Litchfield, Minn. Buckle	599,626	Feb. 22	2750	640	82	1185
Nelson, Nels, New Haven, Conn. Device for preventing fraudulent refilling of bottles	613,465	Nov. 1	449	102	85	702
Nelson, Nelson P., assignor of two-thirds to B. R. Young and F. D. Spratt, Helena, Mont. Amalgamator	609,624	Aug. 23	2729	636	84	1231
Nelson, Thomas G. (See Gelabert and Nelson.)						
Nelson, William, Woodford, assignor of one-half to J. M. Divan, Monroe, Wis. Fence-wire truck	610,494	Sept. 6	667	149	84	1567
Neptune Meter Company. (See Thomson, John, assignor.)						
Neracher, Inozens J., Cleveland, Ohio. Car-fender	599,470	Feb. 22	2451	577	82	1124
Neracher, Inozens J., Cleveland, Ohio. Automatic car-stopper	599,471	Feb. 22	2453	577	82	1124
Nerenz, Herman, assignor of one-half to J. Fuger, New York, N. Y. Truss	615,491	Dec. 6	508	118	85	1510
Nerney, Peter, Attleborough, Mass. Spectacle eye guard or shield	604,238	May 17	1856	415	83	1010
Nesbit, David M., and W. Clowes, London, England; said Clowes assignor to said Nesbit. Water heater and separator	614,743	Nov. 22	2719	619 620	85	1188
Nesbit, W. P. (See Rodgers, Commodore, assignor.)						
Nesbitt, William H., Roland, Canada. Nut-lock	610,879	Sept. 13	1329	304	84	1719
Nesmith, Frederick P., Portland, assignor of two-thirds to M. W. and C. N. Trefethen, South Portland, Me. Surge-reliever	608,344	Aug. 2	322	71	84	720
Nesmith, John W., Denver, Colo. Cooling-jacket for blast-furnaces	614,971	Nov. 29	3157	725 726	85	1290
Nesmith, John W., assignor to Colorado Iron Works Company, Denver, Colo. Blast-furnace	612,754	Oct. 18	2058	488 489	85	418
Nesper, Arthur E., et al. (See Habermann, George J., assignor.)						
Nestmann, Karl A., and L. Herzenberg, Riga, Russia. Wire-drawing mill	614,126	Nov. 15	1586	363	85	963
Nettleton, Frederick W., assignor of one-half to Veru Bicycle and Rubber Company, New Haven, Conn. Sprayer	614,744	Nov. 22	2719	620	85	1188
Nettleton, W. A. (See Monteer, Alexander N., assignor.)						
Neu, John. (See Baugh, Thomas R., assignor.)						
Neu, Louis J., assignor to J. Cousins, Jr., New York, N. Y. Manufacture of shoes or other articles wholly or in part of patent-leather	607,623	July 19	2019	419	84	428
Neuber, Samuel T., Philadelphia, Pa. Dumping-wagon	596,663	Jan. 4	362	80	82	71
Neubert, Armin L., Minneapolis, Minn. Bung-branding machine	616,006	Dec. 13	1438	336	85	1705
Neubert, Crisof F., Chicago, Ill. Machine holder or locking device	597,526	Jan. 18	1850	429	82	394
Neubert, Franklin G., assignor to Patent Button Company, Waterbury, Conn. Button	607,452	July 19	1532	326	84	328
Neuendorff, John B., San Antonio, Tex. Bottle-stopper	598,952	Feb. 15	1510	359	82	925



*Alphabetical list of patentees—Continued.*

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Neuenschwander Bertha J., Vera Cruz, Ind. Noodle-cutter	610,275	Sept. 6	255	54	84	1492
Neuert, Charles A., Boston, Mass. Brush	602,193	Apr. 12	1058	231	83	213
Neugroschl, Israel (See Neugroschl and Walters.)						
Neugroschl, Leo. (See Neugroschl and Walters.)						
Neugroschl, Samuel J., L., and I., and C. Walters, New York, N. Y. Letter-clasp	609,208	Aug. 16	1935	460	84	1058
Neuhs, Werner, Cleveland, Ohio. Baker's oven	605,900	June 21	1576	362	83	1691
Neuhs, Werner, assignor of one-half to W. E. Krumsoy, Cleveland, Ohio. Baker's oven	608,068	July 26	2858	611	84	609
Neumann, John G., Indianapolis, Ind. Preparing desiccated potatoes	611,017	Sept. 20	1576		84	1780
Neumann, Julius J., assignor to Lyon & Healy, Chicago, Ill. Valve for wind instruments	609,556	Aug. 23	2578	604	84	1203
Neumann, Pablo, Buenos Ayres, Argentina. Transporting-frame for bicycles	613,773	Nov. 8	984	225	85	824
Neumark, Julius, New York, N. Y. Extracting tin from tin-plate waste	603,200	Apr. 26	2781		83	573
Neumeyer, Horace F., Macungie, Pa., and J. F. Young, Niagara Falls, N. Y. Water-nozzle	614,883	Nov. 29	2977	683	85	1253
Neun, H. C. (See Knottnerus, Henry E., assignor.)						
Neuss, Robert, Aix-la-Chapelle, Germany. Manufacture of pins	601,062	Mar. 22	2564	585	82	1760
Neverslip Manufacturing Company (See Whitaker, Richard, assignor.)						
Nevill, David J. (See Aymer and Nevill.)						
Nevill, Henry, Southampton, England. Bicycle, &c	601,978	Apr. 5	687	146	83	130
New Branston Two Reel Sewing Machine Company. (See Hunt, Charles B., assignor.)						
New Era Process Company. (See Murphy, Edward E., assignor.)						
New, Harry S., et al. (See White, James E., assignor.)						
New Haven Clock Company. (See Hurley, Daniel J., assignor.)						
New Haven Clock Company. (See Porter, Wilson E., assignor.)						
New Home Sewing Machine Company et al. (See Bragg, Albert C., assignor.)						
New Jersey Valve Company. (See Alexander, Walter S., assignor.)						
New Jersey Wire Cloth Company. (See Orr, William, assignor.)						
New Jersey Wire Stitching Machine Company. (See Johnson, Eldridge R., assignor.)						
New Motive Power Syndicate. (See Guattari, Carlo, assignor.)						
New Process Lime Company. (See Pierce, Harry H., assignor.)						
New, William W., Morrellville, Ill. Wool-spinning machine	605,203	June 7	271	63	83	1401
New York Belting and Packing Company. (See Meeker, Ellis R., assignor.)						
New York Central Iron Works Company. (See Collins, Louis D., assignor.)						
New York Large Tree Company. (See Ryder, Malcolm, assignor.)						
New York Pipe Bending and Machine Company. (See Brinkman, Louies H., assignor.)						
New York Stencil Works. (See Fuchs, Edward, assignor.)						
New York Venetian Blind Company. (See Brundin, Per W., assignor.)						
New York Woven Wire Mattress Company. (See Ryan, James B., assignor.)						
Newark Rivet Works. (See Trimpi, William W., assignor.)						
Newark Watch Case Material Company. (See Arthur, William, assignor.)						
Newberger, Carolina, New York, N. Y. Skirt-elevator	596,759	Jan. 4	544	125	82	104
Newberry, Frank R. (See Farley, Egerton H., assignor.)						
Newberry, George W., Glen Ellyn, assignor of one-half to M. Cahill, Chicago, Ill. Gold-washer	613,172	Oct. 25	2770	653	85	578
Newbill, William H., Trezevant, Tenn. Lifting-jack	611,703	Oct. 4	200	47	85	42
Newbrough, John W., Dakota, assignor of one-half to W. W. Sterns, Humboldt, Iowa. Combination-tool	611,973	Oct. 4	655	158	85	128
Newburg, John I., Vicksburg, Miss. Car-fender	603,339	May 3	168	39	83	634
Newburg, John I., Vicksburg, Miss. Car-coupling	603,340	May 3	169	39	83	634
Newbury, Boliver, Cocksackie, N. Y. Bed-bottom frame	615,038	Nov. 29	3292	757	85	1315
Newby, Edgar C. (See Cryer and Newby.)						
Newcomb, Charles L., Holyoke, Mass. Rotary deluge-nozzle	616,200	Dec. 20	1826	422	85	1800
Newcomb, Charles L., assignor to Deane Steam Pump Company, Holyoke, Mass. Vertical air-pump for moist air or gases	613,466	Nov. 1	451	102 103	85	702
Newcomb, Charles N., Davenport, Iowa. Carpet-loom frame	605,507	June 14	820	190	83	1531
Newcomb, Charles S. (See Patchel, Robert R., assignor.)						
Newcomb, David L., San Diego, Cal. Jar and closure	616,553	Dec. 27	2502	578	85	1953
Newcomb, Maron W. (See Brode, Arthur W., assignor.)						
Newell, George F., assignor of one-half to A. Dill, Richmond, Va. Conveying apparatus	600,373	Mar. 8	1371	313	82	1501
Newell, George H., Gloucester, Mass. Bicycle handle-bar and handle	602,095	Apr. 12	874	190	83	177
Newell, James R., Titusville, Pa. Electric switch	598,001	Jan. 25	2667	622 623	82	567
Newell, John G., assignor of one-half to L. T. Snow, New Haven, Conn. Wrench	601,672	Apr. 5	84	17	83	17
Newell, John G., assignor of one-half to F. B. Street and C. S. Scoville, New Haven, Conn. Pipe-wrench	605,901	June 21	1577	362	83	1691
Newell, John H., Urbana, Ohio. Corn-harvester	605,122	June 7	91	24, 25	83	1369
Newell, Loylson M., Newton, Kans. Floral-arch flower-stand	596,664	Jan. 4	364	80	82	72
Newell, Philo, Oakville, assignor of one-half to F. J. Wooster, Waterbury, Conn. Device for repairing pneumatic tires	605,330	June 7	514	115	83	1451
Newhall, Charles H., assignor of one-half to J. A. McCoart, Providence, R. I. Elevator	608,789	Aug. 9	1102	255	84	890
Newhall, Charles H., and M. H. Ray, Providence, R. I. Coin-controlled tire-inflater	613,593	Nov. 1	668	154	85	743
Newhouse, Samuel, Denver, Colo., A. J. Bettles, and T. Weir, Salt Lake City, Utah. Method or process of extracting precious metals from their ores	601,201	Mar. 22	2796		82	1803
Newkirk, Charles F., Little Georgetown, W. Va. Wire-fence machine	609,456	Aug. 23	2407	564	84	1171
Newkirk, Gilbert A., Denver, Colo. Advertising device	616,438	Dec. 20	2269	529	85	1889
Newkirk, Harry M., and H. A. Schmidt, Newport News, Va. Crank connection for steam-engines	614,745	Nov. 22	2721	620	85	1188
Newlin, Joseph S., Crockettville, S. C. Air-feeding apparatus for boilers	606,072	June 21	1916	440	83	1751
Newman, Edwin G., St. Louis, Mo. Engine	598,953	Feb. 15	1511	359 360	82	923
Newman, Fred R. (See Burgland, Peter, assignor.)						
Newman, George, El Paso, Tex. Electric-circuit-closing device	600,969	Mar. 22	2404	548	82	1729
Newman, George A., Cliff, Nebr. Explosive-engine	602,707	Apr. 19	1941	440 441	83	398
Newman, Isaac W., Cleveland, Ohio. Bicycle-lock	598,326	Feb. 1	449	107	82	687
Newman, Lyda D., New York, N. Y. Brush	614,335	Nov. 15	1973	456	85	1035
Newman, Morris C., and L. Z. Marks, assignors of one-third to C. May, Chicago, Ill. Window-guard	610,822	Sept. 13	1230	283	84	1697
Newman, Samuel, Cincinnati, Ohio. Post for metal bedsteads	610,078	Aug. 30	3513	814	84	1399
Newsom, Charles S., assignor of one-half to L. J. Peters, Athens, Ohio. Combined incubator and brooder	614,493	Nov. 22	2277	521	85	1106
Newstrom, Charles L., and T. H. Miller, Maiden Rock, Wis. Grain-car door	602,167	Apr. 12	1011	222	83	203
Newsom, George, Leeds, England. Apparatus for measuring and marking lengths on fabrics	615,406	Dec. 6	360	86	85	1482
Newton, Arthur, Boston, Mass. Nailing-machine for boots or shoes	599,627	Feb. 22	2751	640 641	82	1185



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Newton, Clement V., Concord, Ind. Threshing-machine	613,908	Nov. 8	1211	276 277	85	868
Newton, Daniel H., assignor to W. A. Newton, Minneapolis, Minn. Starching-machine	599,132	Feb. 15	1807	431	82	980
Newton, Francis W., Gainesville, Tex. Device for heating sad-irons	610,823	Sept. 13	1231	283	84	1697
Newton, Henry C., Cuthbert, Ga. Insect-trap	600,550	Mar. 15	1713	392	82	1585
Newton, Henry E., Los Angeles, Cal. Double return-ball	612,173	Oct. 11	1032	248	85	212
Newton, Henry E., Los Angeles, Cal., assignor to C. C. McLean, Philadelphia, Pa. Portable screen	613,865	Nov. 8	1145	262	85	855
Newton, Marvin K., Tiona, Pa. Gas-burner for stoves or heaters	615,737	Dec. 13	949	220	85	1612
Newton, William A. (See Newton, Daniel H., assignor.)						
Ney, Roscoe W., New Rochelle, assignor to Zucker & Levett & Loeb Company, of New York. Rheostat	603,027	Apr. 26	2490	565	83	517
Ney, William H., Fowler, Colo. Hay-stacker	616,628	Dec. 27	2624	608	85	1975
Niagara Falls Acetylene Gas Machine Company. (See Bell, Harold J., assignor.)						
Niagara Falls Power Company. (See Sellers, Coleman, assignor.)						
Niagara Fire Extinguisher Company. (See Kersteter, Charles W., assignor.)						
Niagara Sprinkling Company. (See Ober and Collyer, assignors.)						
Nichless, Anthony, Freeport, Ill. Tie for bales, bundles, &c	605,123	June 7	95	25	83	1370
Nicholls, Moses, assignor of one-half to F. Gigray, Glenwood, Iowa. Miter-box	615,097	Nov. 29	3402	780	85	1334
Nichol, James H., Haddonfield, assignor to Dustless Roadbed Company, Camden, N. J. Oil-distributing apparatus	604,479	May 24	2316	525 526	83	1117
Nichols, Charles E., Milan, Wash. Railway attachment for bicycles	606,073	June 21	1919	441	83	1751
Nichols, Edwin C., Topeka, Kans. Car-brake	607,069	July 12	808	177	84	176
Nichols, Edwin C., assignor of one-half to W. C. Smith, Topeka, Kans. Air purifying and refrigerating system for refrigerator-cars, &c	610,276	Sept. 6	257	54, 55	84	1492
Nichols, George L., De Kalb, Ill. Cattle-stanchion	605,005	May 31	3221	741	83	1309
Nichols, Grant B., Wapakoneta, Ohio. Calendar-tellurian	615,098	Nov. 29	3405	781	85	1335
Nichols, John A., Pittsburg, Pa. Combined punching and shearing machine	613,072	Oct. 25	2621	620 621	85	548
Nichols, John S. C., Noble, Ill. Vessel-brake	607,267	July 12	1191	255	84	246
Nichols, Joseph E., Rochester, N. H. Lamp-stove	603,341	May 3	171	39	83	634
Nichols, Marion L., assignor to Evolution Cycle Company, Washington, D. C. Gear-container and frame connection for bicycles	600,482	Mar. 8	1561	359	82	1535
Nichols, Martin V., Doyle Station, Tenn. Clamp attachment for anvils	607,126	July 12	925	200	84	197
Nichols & Shepard Company. (See Wernicke, Carl G. W., assignor.)						
Nichols, William E., Winchendon, Mass. Machine for cutting box-corners	609,161	Aug. 16	1855	441	84	1043
Nicholsburg, Henry, assignor to H. Nicholsburg Manufacturing Company, New York, N. Y. Apparatus for washing carriages or other vehicles	601,003	Mar. 22	2470	562 563	82	1741
Nicholsburg, Henry, New York, N. Y., assignor of one-half to E. Ferris, Montclair, N. J. Nozzle	605,049	May 31	3298	757	83	1324
Nicholson, Austin E. (See Cadwell, James, assignor.)						
Nicholson File Company. (See McHardy, James A., assignor.)						
Nicholson, George C., Melbourne, Victoria. Sash-fastener	607,762	July 19	2248	475	84	472
Nickel, David, Morris, Ill. Door-hanger	604,887	May 31	3030	696	83	1272
Nickel, David, Morris, Ill. Caster	604,888	May 31	3031	696	83	1272
Nickerson, Freeman, Boston, Mass. Hanger for goods or garments	603,653	May 10	755	168	83	764
Nickerson, John S., assignor of one-half to C. E. Cooper, Woburn, Mass. Coal-sack	616,249	Dec. 20	1928	446	85	1820
Nickerson, Sidney T., assignor to R. C. Mitchell, New York, N. Y. Seal-lock	613,388	Nov. 1	309	72	85	676
Nickols, George C., Illiopolis, Ill. Nut-lock	600,232	Mar. 8	1140	260	82	1457
Nicol, John A. (See Muddiman, Henry C., assignor.)						
Nicol, John A., et al. (See Tyler, William E., assignor.)						
Nicol, Ludger A. O., and E. Ayotte, Lowell, Mass., assignors to Draper Company, Portland, Me., and Hopedale, Mass. Spindle and bearing	608,992	Aug. 9	1517	358	84	967
Nicol, William, Glasgow, Scotland. Weatherproof fitting for windows	601,081	Mar. 22	2591	591	82	1765
Nicolai, Charles D., et al. (See Atkinson, Mahlon B., assignor.)						
Nicolai, Lawrence S., et al. (See Atkinson, Mahlon B., assignor.)						
Nicolini, Peter J., Oakland, Cal. Device for sulfuring casks	600,926	Mar. 22	2341	532	82	1717
Nicolle, Philip, Toronto, Canada. Double-vent double-flushing water-closet	596,823	Jan. 4	649	149	82	125
Nicoll, Philip, Toronto, Canada. Combination water-closet, seat, &c	603,732	May 10	882	195 196 197	83	789
Nicolle, Philip, Toronto, Canada. Valise-seat and lunch vessel	609,696	Aug. 23	2854	667	84	1256
Nicolson, James, Buenos Ayres, Argentina. Telegraphic signal	597,587	Jan. 18	1949	453	82	414
Niebling, William F., Cincinnati, Ohio. Apparatus for treating milk hygienically	604,177	May 17	1751	394 395	83	991
Niebling, William F., Cincinnati, Ohio. Water-cooling device	610,946	Sept. 20	1437	330	84	1754
Niebling, William F., Cincinnati, Ohio. Piston-valve	616,250	Dec. 20	1929	447	85	1820
Niederer, John J., New York, N. Y. Fabric-holding frame for embroidering-machines	605,902	June 21	1578	303	83	1691
Niederstadt, Charles A. (See Borden and Niederstadt.)						
Niedringhaus, Fredrick G., assignor to St. Louis Stamping Company, St. Louis, Mo. Enameling steel	607,624	July 19	2021	-----	84	428
Niedringhaus, William F., assignor to St. Louis Stamping Company, St. Louis, Mo. Manufacture of enameled ware	607,625	July 19	2022	-----	84	429
Nielsen, Andrew E., Brooklyn, N. Y., assignor to Sterling Supply and Manufacturing Company, of New York. Fare-register	600,127	Mar. 1	969	215	82	1407
Nielsen, Hans P. A., Newport News, Va. Cooking apparatus	607,268	July 12	1192	255	84	246
Nielsen, Michael, and T. S. Thomsen, Greenwich, Conn., assignor of one-third to M. Bariffi, Port Chester, N. Y. Knife-sharpening machine	598,806	Feb. 8	1250	302	82	857
Nielson, Christen, Brooklyn, N. Y. Electric welding-machine	601,979	Apr. 5	689	146	83	130
Nielson, Christen, New York, N. Y. Fifth-wheel	609,697	Aug. 23	2855	668	84	1256
Niemeyer, Herman C., Wheatland, Cal. Folding cot-bed	600,647	Mar. 15	1859	425	82	1612
Niermann, Joseph B., et al. (See Langer, Gotthold, assignor.)						
Nies, Frederick H., and W. Dunn, New York, N. Y. Gear-case for bicycles	611,076	Sept. 20	1667	382 383	84	1797
Nies, Frederick H., and W. Dunn, New York, N. Y. Bicycle-frame	611,077	Sept. 20	1670	383	84	1798
Niesen, F. E., trustee. (See Van Zandt, Edwin G., assignor.)						
Nightingale, William O., assignor to Alcatraz Paving Company, Philadelphia, Pa. Oil-ing device for road-rollers	598,206	Feb. 1	240	53, 54	82	648
Nightingale, James, New York, N. Y. Wood block for paving	606,574	June 28	2861	659	83	1956
Niles, William E. (See Wallis, Henry E., assignor.)						
Nilson, Anton, Natick, Mass. Extensible bedstead	611,270	Sept. 27	2064	475 476	84	1892
Nilson, Carl F., Gile, Wis. Combined motor-cradle and child's carriage	604,498	May 24	2354	534	83	1123
Nilson, Carl F., Gile, Wis. Bicycle	605,331	June 7	515	115	83	1451
Nilson, Lars G., Sioux City, Iowa. Automatic switching and telephone system	611,974	Oct. 4	656	158 159	85	128



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Nilsson, Nils, Minneapolis, Minn. Steam-separator	602,868	Apr. 26	2212	501	83	465
Nilsson, Carl. (See Jones, Smith, and Nilsson.)						
Ninnemann, Louis R. (See Free, Allison N., assignor.)						
Nisbet, George A., London, England. Velocipede	611,138	Sept. 20	1798	414	84	1823
Nisbet, William H. (See Selley and Nisbet.)						
Nissen, Antone, Shasta, Cal. Miner's candlestick	612,432	Oct. 18	1484	358	85	309
Nissen, Nis S., Racine, Wis. Box-cover brace and support	611,018	Sept. 20	1578	362	84	1780
Nissley, Hiram H. (See Martin, Harry L., assignor.)						
Nister, Ernst, Nuremberg, Germany. Sheet-delivery mechanism for printing-machines.	602,238	Apr. 12	1126	247	83	226
Nitrogen Processing Company. (See Snyder and Seldner, assignors.)						
Nitschmann, Josef, New York, N. Y. Boring-drill	599,914	Mar. 1	456	102	82	1300
Nix, James L., Homer City, Pa. Incubator	597,242	Jan. 11	1357	317	82	279
Nix, James L., Homer City, Pa. Thermometer for incubators	610,079	Aug. 30	3514	814	84	1399
Nix, John R. (See Engstrom and Nix.)						
Nix, Joshua J., Royersford, Pa. Gas or oil heater	615,193	Nov. 29	3566	821	85	1367
Nix, Manning L., Oklahoma, Okla. Ter. Washing-machine	612,265	Oct. 11	1197	287	85	243
Nixon, Byron A. (See White, Henry P., assignor.)						
Nixon, John C., Texarkana, Ark. Fly-trap	603,065	Apr. 26	2547	579	83	528
Nixon, William G. (See Brockett, Atwater E., assignor.)						
No-Puncture Tire Company. (See Faas and Gray, assignors.)						
Noack, Adolph G., and L. S. Grossman, assignors, by mesne assignments, to C. L. V. Evans, trustee, Cleveland, Ohio. Hydraulic air-compressor	606,732	July 5	170	38	84	35
Noack, Adolph G., and L. S. Grossman, assignors, by mesne assignments, to C. L. V. Evans, trustee, Cleveland, Ohio. Hydraulic air-compressor	606,733	July 5	173	38, 39	84	35
Noack, Carl O., Stamford, assignor to Eagle Lock Company, Terryville, Conn. Cylinder-lock	608,069	July 26	2859	611	84	610
Nobbs, George H., Jamaica, Vt. Tire-inflator	613,774	Nov. 8	985	225	85	825
Nobel, Alfred, Paris, France. Mechanism for forging hollow shafts, guns, or other similar metallic articles	599,472	Feb. 22	2454	578	82	1125
Noble, Donald. (See Rossiter and Noble.)						
Noble, Edwin J. (See Watson, George H., assignor.)						
Noble, Frank A. (See Noble, George H. and F. A.)						
Noble, George H. and F. A., Worcester, Mass. Leather-stretching mechanism	598,207	Feb. 1	243	54	82	648
Noble, George W., Lum, Ala. Cultivator	611,644	Oct. 4	91	22	85	20
Noble, Jay, assignor to Jay Noble Water Clarifying Company, St. Louis, Mo. Art of and apparatus for drawing clear water from bodies of water	614,059	Nov. 8	1445	332	85	915
Noble, John, and F. R. Bennett, London, England. Pianoforte	608,476	Aug. 2	549	123	84	764
Noble, Oscar L., Winthrop, assignor to F. Wood, trustee, Boston, Mass. Machine for forming cutters	598,002	Jan. 25	2669	623	82	568
Noble, Oscar L., Winthrop, assignor to F. Wood, trustee, Boston, Mass. Cutter for trimming heel-seats and rands for boots or shoes	605,647	June 14	1082	249	83	1579
Noble, Theron A., Seattle, Wash. Cylindrical balanced gate-valve	616,724	Dec. 27	2835	656 657	85	2017
Noble, Theron A., Seattle, Wash., assignor to himself, and J. D. Schuyler, Los Angeles, Cal. Air-valve for water pipe-lines	598,386	Feb. 1	538	131 132	82	704
Noblit, George H. (See Plush and Noblit.)						
Nocon, Hans, Breslau, Germany. Lantern-holder	598,642	Feb. 8	985	238	82	807
Noe, Alexander C., Pikeview, Ky. Combined planter and fertilizer-distributor	611,041	Sept. 20	1609	368 369	84	1786
Noël, Charles, assignor to La Société Industrielle du Liege et de La Bouchonnerie Parisienne, Paris, France. Machine for cutting corks	605,297	June 7	459	102 103 104	83	1439
Noel, George S., Crab Tree, Pa. Combined nut and bolt clipper	598,954	Feb. 15	1513	360	82	924
Noel, Louis, Springfield, assignor of one-half to H. Blodgett, Ludlow, Mass. Bicycle-bell	610,495	Sept. 6	669	150	84	1567
Noel, Victor N., Jefferson, Okla. Ter. Animal-poke	598,740	Feb. 8	1155	277	82	838
Noera, Frank P., Waterbury, Conn. Closure for oiling-nozzles	610,557	Sept. 13	776	176	84	1603
Noey, John. (See Maccoun and Noey.)						
Nolan, John F., Chicago, Ill. Cuspidor-cleaner	605,006	May 31	3223	742	83	1309
Noland, Wilbert K., Coupon, Pa. Car-coupling	607,763	July 19	2249	475	84	472
Nolin, Gervais, Skowhegan, Me. Scythe	598,387	Feb. 1	540	132	82	705
Nolte, George, St. Louis, Mo. Stove	615,300	Dec. 6	141	37, 38	85	1441
Non-Intoxicant Beverage Company. (See Uhlmann, Ernst, assignor.)						
Nonatuck Silk Company. (See Dimock, Ira, assignor.)						
Nonnenmacher, Franz, Spabrücken, Germany. Sizing	599,726	Mar. 1	85	-----	82	1233
Nonweiler, Gustav A. (See Heine and Nonweiler.)						
Noppel, Emil, Philadelphia, Pa. Combined lift, force, and test pump	596,713	Jan. 4	457	103	82	89
Norcross, Orlando W., Worcester, Mass. Fireproof floor	596,534	Jan. 4	128	29	82	27
Norcross, William M., Philadelphia, Pa. Car-seat	610,719	Sept. 13	1037	240	84	1659
Norcross, William M., Philadelphia, Pa., assignor to Hale & Kilburn Manufacturing Company, of Pennsylvania. Foot-rest for car-seats	605,124	June 7	96	25	83	1370
Nord, John O. (See Youngberg and Nord.)						
Nordell, Carl, Stamford, Conn. Bicycle	614,884	Nov. 29	2980	683	85	1254
Norden, Joseph. (See Norden, Mortimer, assignor.)						
Norden, Mortimer, assignor to J. Norden, New York, N. Y. Rheostat	597,470	Jan. 18	1763	408	82	376
Norden, Mortimer, assignor to J. Norden, New York, N. Y. Electrical sign	606,356	June 28	2470	574	83	1879
Nordyke & Marmon Company. (See Gold, Lyman, assignor.)						
Nordyke & Marmon Company. (See Seay, John E., assignor.)						
Nordyke & Marmon Company. (See Warrington, Jesse, assignor.)						
Norling, Jacob, and C. E. Johnson, Chicago, assignors to G. B. Robbins, Hinsdale, Ill. Car-ventilator	603,115	Apr. 26	2645	601	83	547
Norling, Otto W., Brooklyn, N. Y. Car-fender	606,679	July 5	83	17, 18	84	19
Norlund, Olof A., and W. B. Clark, assignors of one-third to G. A. Gamble, Cedar Run, Pa. Nut-lock	597,218	Jan. 11	1322	308	82	272
Norman, Addison, Toronto, Canada. Electric cable for propulsion of vehicles	596,907	Jan. 4	780	184	82	152
Norman, Addison, Toronto, Canada. Electromagnetic-switch railway	605,970	June 21	1721	395	83	1717
Norman, Addison, assignor of one-fourth to W. McCabe, Toronto, Canada. Electric cable for driving conveyances	607,070	July 12	812	178	84	176
Norman, Addison, assignor of one-fourth to W. McCabe, Toronto, Canada. Electric-cable switch	612,670	Oct. 18	1918	454	85	391
Normand, Ernest A., San Francisco, Cal. Collar and necktie lock	613,467	Nov. 1	452	103	85	702
Normart, Frank G. (See Thorp and Normart.)						
Norrington, Henry H., West Bay City, Mich. Inking-pad	600,695	Mar. 15	1956	446	82	1630
Norris, Edward H., Providence, R. I. Attachment for bicycles	603,654	May 10	756	169	83	764
Norris, James L., administrator. (See Bill, Fred W.)						
Norris, John T., Chula, Mo. Automatic key adjustment for pitman connections	611,704	Oct. 4	201	47	85	42



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Norris, Lewis C., Erie, Pa. Key-fastener	598,229	Feb. 1	280	63	82	655
Norris, Richard, Philadelphia, Pa. Trousers-rack	611,929	Oct. 4	581	140	85	114
Norris, Thomas A., Brockton, Mass. Buffing-wheel	602,913	Apr. 26	2296	523	83	480
Norris, Thomas V., assignor of one-half to C. T. Olander, Rockford, Ill. Washing-machine	608,556	Aug. 2	687	156	84	792
Norris, Thomas V., assignor of one-half to C. T. Olander, Rockford, Ill. Washing-machine	608,557	Aug. 2	689	156	84	792
North Brothers Manufacturing Company. (See Aichele, Christian, assignor.)						
North Brothers Manufacturing Company. (See Furbish, Zachry T., assignor.)						
North Carolina Mica Company. (See Huse, Frederick R., assignor.)						
North, Chauncey M. (See Brundage, Reuben I., assignor.)						
North, Fredrick W. O., Boston, Mass. Plumber's plug	596,612	Jan. 4	273	60	82	55
North, Robert, Webster Groves, Mo., assignor to W. North, Faulkner, Kans. Door holder and bolt	610,146	Aug. 30	3610	839	84	1420
North, Samuel A. (See Beardsley and North.)						
North, Thomas M., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Air-cushioning device for printing-presses	600,164	Mar. 8	1032	232	82	1436
North, William. (See North, Robert, assignor.)						
Northall, William H., and F. W. Schepman, Evansville, Ind. Sales-recording check-book	603,571	May 3	598	133	83	717
Northam, Robert J., Los Angeles, Cal. Sheet-metal pipe	599,628	Feb. 22	2755	641	82	1185
Northcott, Theodore C., J. N. Lake, and J. Clark, Elmira, N. Y.; said Clark assignor to said Northcott. Can-labeling machine	606,227	June 28	2221	510 511	83	1829
Northrop, James H. (See Draper and Northrop.)						
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle	598,480	Feb. 1	698	170	82	735
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	600,016	Mar. 1	621	142	82	1331
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Thread-cutting temple for looms	604,632	May 24	2585	590	83	1167
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Thread-guide	605,062	May 31	3319	762	83	1328
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp-stop-motion mechanism for looms	607,947	July 26	2631	559	84	562
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	608,558	Aug. 2	689	156	84	792
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Take-up mechanism for looms	610,636	Sept. 13	906	208	84	1631
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Take-up mechanism for looms	616,064	Dec. 13	1541	360	85	1726
Northrop Loom Company. (See Draper and Northrop, assignors.)						
Northrup, Louese A. D., Shoreham, Vt. Umbrella-holder	603,964	May 10	1297	296	83	869
Northrup, Willard A., Harvard, Ill. Needle-threader	597,735	Jan. 25	2200	513	82	478
Norton, Andrew. (See Wing and Norton.)						
Norton, Arthur L., Calumet, Mo. Armor-clad ship	615,039	Nov. 29	3293	757	85	1315
Norton, Arthur O. (See Trefethen, Ervin T., assignor.)						
Norton, Bernard W., Meriden, Conn. Device for preventing fraudulent filling of bottles	603,151	Apr. 26	2706	615	83	560
Norton Bros. (See Hodgson, John G., assignor.)						
Norton Brothers. (See Norton, Edwin, assignor.)						
Norton, Charles H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Grinding-machine	613,934	Nov. 8	1252	285	85	875
Norton, Charles T., and E. D. Rushing, Scribner, Cal. Grip for cables	598,741	Feb. 8	1156	277	82	839
Norton, Daniel, and S. Neemes, Troy, N. Y. Grate	608,215	Aug. 2	86	23	84	672
Norton, Edward H., New York, N. Y. Combined comb and pen or pencil holder	597,121	Jan. 11	1166	274	82	243
Norton, Edwin, et al. (See Taliaferro, John C., assignor.)						
Norton, Edwin, Maywood, assignor to Norton Brothers, Chicago, Ill. Automatic sheet-metal-rolling mill	600,165	Mar. 8	1034	233	82	1436
Norton, Edwin, Maywood, assignor to Norton Brothers, Chicago, Ill. Canning food	602,096	Apr. 12	878	191	83	178
Norton, Edwin, Maywood, assignor to Norton Brothers, Chicago, Ill. Heating-furnace	608,264	Aug. 2	160	40	84	686
Norton, Edwin, Maywood, assignor to Norton Brothers, Chicago, Ill. Sheet-metal-seaming machine	610,558	Sept. 13	778	177	84	1604
Norton, Edwin, Maywood, assignor to himself and O. W. Norton, Chicago, Ill. Screw-cap sealing-nozzle for cans	602,465	Apr. 19	1516	346	83	318
Norton, Edwin, Maywood, assignor to himself and O. W. Norton, Chicago, Ill. Shipping-package	602,466	Apr. 19	1517	346	83	318
Norton, Edwin, Maywood, assignor to himself and O. W. Norton, Chicago, Ill. Can	602,467	Apr. 19	1521	346	83	319
Norton, Edwin, Maywood, assignor to himself and O. W. Norton, Chicago, Ill. Shipping-can	602,468	Apr. 19	1522	346 347	83	319
Norton, Edwin, Maywood, assignor to himself and O. W. Norton, Chicago, Ill. Shipping box or package	602,469	Apr. 19	1525	347	83	320
Norton, Edwin, Maywood, assignor to himself and O. W. Norton, Chicago, Ill. Wood-veneer-jacketed shipping-can	602,768	Apr. 19	2029	460	83	415
Norton, Harry C. (See Keyes, Herbert L., assignor.)						
Norton, Henry L., Middletown, Conn. Sash-fastener	614,336	Nov. 15	1973	456	85	1035
Norton, Oliver W. (See Norton, Edwin, assignor.)						
Norton, Oliver W., et al. (See Taliaferro, John C., assignor.)						
Norton, Robert M., Kenosha, Wis. Velocipede	614,232	Nov. 15	1789	413	85	1000
Norton, Thomas, New York, N. Y. Bottle-filling machine	609,290	Aug. 16	2108	500	84	1094
Norton, Tom, Newtown, England. Velocipede-frame	613,935	Nov. 8	1253	285	85	876
Norton, William B. (See Hoffman and Norton.)						
Norvell, George L., Columbia, Mo. Dumping-wagon	599,727	Mar. 1	86	20	82	1233
Norwood, Edwin O., Macune, Tex. Hoe	616,201	Dec. 20	1828	422	85	1800
Nott, George C. (See Bevington and Fisher, assignors.)						
Notter, Charles H., Chicago, Ill. Transfer-carriage for elevated ways	599,973	Mar. 1	547	125 126 127	82	1316
Notter, Charles H., assignor of one-half to W. S. Bogle, Chicago, Ill. Hoisting apparatus	600,499	Mar. 8	1620	370	82	1548
Novelty Manufacturing Company. (See Boeck, Charles H., assignor.)						
Novelty Manufacturing Company. (See Wells, Alfred S., assignor.)						
Nowak, John W., Allegheny, Pa. Boat	600,483	Mar. 8	1563	359	82	1536
Noyes, Bernice J. (See Fox, Blount, and Noyes.)						
Noyes, Henry F., Elgin, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake	599,348	Feb. 22	2199	522	82	1074
Noyes, Henry F., Elgin, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake	599,349	Feb. 22	2202	522 523	82	1075
Noyes, La Verne W. (See Dyer and Noyes.)						
Noyes, La Verne W., Chicago, Ill. Shaft-support for windmills	604,780	May 31	2854	652	83	1238



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Noyes, La Verne W., Chicago, Ill. Bicycle driving-gear .....	607,522	July 19	1830	382	84	394
Noyes, La Verne W., Chicago, Ill. Windmill .....	609,457	Aug. 23	2409	565	84	1171
Noyes, La Verne W., Chicago, Ill. Windmill .....	614,233	Nov. 15	1791	414	85	1000
Noyes, La Verne W., Chicago, Ill. Book-fastener .....	615,301	Dec. 6	143	38	85	1441
Noyes, La Verne W., Chicago, Ill. Driving mechanism for windmills .....	616,134	Dec. 20	1700	395	85	1773
Noyes, William S., Chicago, Ill. Chain-guard for bicycles .....	598,056	Jan. 25	2752	642	82	584
Nucci, Luigi de, assignor of one-tenth to G. Santariero, Springfield, Mass. Non-refillable bottle .....	610,874	Sept. 13	1321	303	84	1717
Nugent, Edward, Newark, N. J. Canopy-supporter .....	615,738	Dec. 13	951	221	85	1612
Nugent, Owen J., Alexandria, Va. Vent for preserving fermented liquors .....	599,454	Feb. 22	2417	568	82	1119
Nuhring, Charles. (See Thompson and Nuhring.)						
Nulsen, Frank E., St. Louis, Mo., assignor to Universal Car Bearing Company, New York, N. Y. Car-axle bearing .....	605,827	June 14	1417	323	83	1641
Nunns, John W., New York, N. Y. Canvas-stretcher .....	602,353	Apr. 12	1319	293	83	266
Nurnberger, John, Jr., near Atherton, Ind. Hand snap-hook .....	603,238	Apr. 26	2850	650	83	586
Nurick, Alexander, assignor to Jones & Laughlins, Limited, Pittsburg, Pa. Metallic column .....	611,019	Sept. 20	1579	362	84	1781
Nusser, William C. (See Thomas and Nusser.)						
Nutsford, William G., Chicago, Ill. Mud-guard for bicycles .....	597,471	Jan. 18	1764	408	82	376
Nutt, William, Indianapolis, Ind. Stopper .....	605,125	June 7	97	26	83	1370
Nutting, Elijah G., Faribault, Minn. Truck .....	608,898	Aug. 9	1324	309	84	931
Nydegger, Arnold. (See Hansen, William, assignor.)						
Nye, Benjamin F., Quincy, Mich. Eaves-trough .....	603,611	May 3	684	153	83	733
Nye, Charles E., Walla Walla, Wash. Saddle-skirt protector .....	609,118	Aug. 16	1786	425	84	1030
Nygaard, Andrew C., Rawlins, Wyo. Sleigh attachment for vehicles .....	610,824	Sept. 13	1233	284	84	1697
Nygren, August, Elizabeth, Minn. Magazine-pistol .....	597,588	Jan. 18	1951	454	82	414
Nylander, Eric B., Örnsköldsvik, assignor to E. Abrahamson, Stockholm, Sweden. Feeding device for sewing-machines .....	600,740	Mar. 15	2034	464 465	82	1646
Nystrom, Walfrid, <i>et al.</i> (See Larson and Branzell, assignors.)						
O. H. Jewell Filter Company. (See Jewell, Omar H., assignor.) (Reissue.)						
O. H. Jewell Filter Company. (See Jewell, Omar H. and W. M., assignors.)						
O. H. Jewell Filter Company. (See Jewell, William M., assignor.)						
O'Brien, Alfred. (See Grapes, George H., assignor.)						
O'Brien, Clara G. D. (See O'Brien, Walter B., assignor.)						
O'Brien, Cornelius, Rock Creek, S. D. Boom .....	607,269	July 12	1193	255	84	246
O'Brien, James, Evansville, Ind. Mine trap-door .....	609,746	Aug. 23	2925	684	84	1269
O'Brien, James H., St. Louis, Mo. Lamp-burner .....	603,116	Apr. 26	2647	601	83	547
O'Brien, John J., assignor to John O'Brien Boiler Works Company, St. Louis, Mo. Boiler .....	600,443	Mar. 8	1488	339	82	1522
O'Brien, Joseph M., San Francisco, Cal. Spring-gear for vehicles .....	616,135	Dec. 20	1702	396	85	1773
O'Brien, Maurice, Fresno, Cal. Spring-wheel .....	606,934	July 5	523	115	84	104
O'Brien, Thomas, Jr., Philadelphia, Pa. Insulated joint for railway-rails .....	599,081	Feb. 15	1720	408	82	965
O'Brien, Walter B., assignor of one-half to C. G. D. O'Brien, New York, N. Y. Protective seal for bottles .....	612,266	Oct. 11	1198	287	85	243
O'Brien, William F., and D. S. Keith, Whitman, Mass. Machine for cutting shank-stiffeners .....	614,972	Nov. 29	3159	726	85	1290
O'Brien, William H. (See Harris, Patrick J., assignor.)						
O'Bryan, William S., Parkville, Ill. Windmill .....	600,796	Mar. 15	2118	484	82	1662
O'Connell, James P., Warwick, R. I., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Twister stop-motion .....	616,850	Dec. 27	3040	706	85	2059
O'Connell, John, Chicopee, Mass. Cotton-opener .....	602,265	Apr. 12	1173	258	83	236
O'Connell, John G. (See Cronin, Edward, assignor.)						
O'Connor, Edward J., and E. R. Knowles, New York, N. Y. Bicycle-gear .....	610,277	Sept. 6	262	55	84	1493
O'Connor, J. C. (See Carlson, Charles P., assignor.)						
O'Connor, James V., Brockton, Mass. Propeller .....	603,703	May 10	836	185	83	779
O'Connor, John, and C. A. Turner, New York, N. Y. Alarm for water-containing vessels .....	598,572	Feb. 8	868	208	82	785
O'Donnell, Ignatius D., Billings, Mont. Head-gate .....	598,807	Feb. 8	1252	303	82	857
O'Donnell, Maurice J., Fall River, Mass. Compound for preserving belts .....	611,459	Sept. 27	2426		84	1959
O'Flaherty, Daniel, Kansas City, Mo. Electrically-propelled vessel .....	599,862	Mar. 1	348	79	82	1279
O'Flaherty, Patrick J., <i>et al.</i> (See Sultemeyer, Carl F., assignor.)						
O'Hanlon, Daniel P., assignor of two-thirds to J. A. McCarthy, Troy, N. Y. Filter .....	614,619	Nov. 22	2494	570	85	1144
O'Hara, Arthur J., Port Jervis, N. Y., assignor of one-fourth to M. J. Howley, Honesdale, Pa. Car-brake .....	615,739	Dec. 13	952	221	85	1612
O'Hare, Michael, Utley, Wis. Rock and ore crusher .....	609,458	Aug. 23	2411	565	84	1172
O'Keefe, Frank D., assignor to N. L. O'Keefe, Philadelphia, N. Y. Folding chair .....	616,346	Dec. 20	2103	490	85	1856
O'Keefe, John, Thorndike, Mass. Wedge for securing handles in tools .....	600,741	Mar. 15	2036	465	82	1647
O'Keefe, Nettie L. (See O'Keefe, Frank D., assignor.)						
O'Keefe, William H., Lockport, N. Y. Adjusting device for chairs .....	605,008	May 31	3226	742	83	1310
O'Lally, Patrick K., Boston, Mass., assignor to American Automatic Faucet Company, Berwick, Me. Faucet .....	612,267	Oct. 11	1199	287	85	243
O'Lally, Patrick K., Boston, Mass., assignor to American Automatic Faucet Company, Berwick, Me. Faucet .....	616,629	Dec. 27	2626	608	85	1975
O'Lally, Patrick K., assignor to American Automatic Faucet Company, Boston, Mass. Faucet .....	612,268	Oct. 11	1200	288	85	243
O'Mara, John F., Terre Haute, Ind. Bicycle-governor .....	612,755	Oct. 18	2061	489	85	419
O'Meara, Moses J., Vanderville, Ill. Check-rower .....	612,269	Oct. 11	1201	288	85	243
O'Neil, Charles D., and A. S. Beaty, Charleston, W. Va. Nut-lock .....	600,648	Mar. 15	1860	425	82	1613
O'Neil, David W. (See Bachert and O'Neil.)						
O'Neil, John. (See Boorman, Sharp, and O'Neil.)						
O'Neil, Joseph, Taylorstown, Pa. Pump .....	602,869	Apr. 26	2214	502	83	466
O'Neill, Edward, Milwaukee, Wis. Hoisting device .....	596,908	Jan. 4	782	184	82	153
O'Neill, Frank, Cicero, Ind. Machine for manufacturing glassware .....	605,648	June 14	1083	249 250	83	1579
O'Neill, Frank, assignor of one-fourth to C. Arduser, Cicero, Ind. Machine for manufacturing glassware .....	616,251	Dec. 20	1931	447	85	1821
O'Neill, Henry G., Brookline, assignor to American Electric Heating Corporation, Boston, Mass. Electric resistance-conductor .....	599,351	Feb. 22	2207	524	82	1077
O'Neill, Henry G., Brookline, and H. B. Gale, assignors to American Electric Heating Corporation, Boston, Mass. Electric resistance-conductor .....	599,352	Feb. 22	2209	524	82	1077
O'Neill, James E., Waupaca, Wis. Heel .....	606,229	June 28	2228	511 512	83	1830
O'Neill, Owen F., Philadelphia, Pa. Pneumatic-tire plug .....	609,901	Aug. 30	3195	749	84	1336
O'Neill, Theresa E., Baltimore, Md. Dress-skirt hanger .....	608,266	Aug. 2	166	40	84	687
O'Quinn, J. E. (See Bundick, George E., assignor.)						
O'Reilly, Henry, Dublin, Ireland. Cog-wheel .....	616,725	Dec. 27	2837	657	85	2018
O'Reilly, Joseph R., Booterstown, Ireland. Packing-envelop for bottles .....	616,583	Dec. 27	2545	589	85	1960
O'Rielly, Michael J., Buffalo, N. Y. Gas-burner .....	600,166	Mar. 8	1040	234	82	1437



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O'Rourke, John. (See Hurley, John, assignor.)						
O'Rourke, John F., New York, N. Y. Razor	616,554	Dec. 27	2503	579	85	1953
O'Sullivan, Michael, assignor to I. W. Whitehead, Flint, Mich. Lock-valve for brake mechanism	606,680	July 5	84	18	84	19
O'Thayne, Patrick, New York, N. Y. Garment distender and drier	604,122	May 17	1644	368 369	83	968
Oakes, Francis J., New York, N. Y. Mordanting	601,673	Apr. 5	85		83	17
Oakes, Lucian R., Bloomington, Ind. Lamp-burner	604,412	May 24	2186	490	83	1094
Oakford, Charles, Highland, Fla. Tire-tightener	614,021	Nov. 8	1390	319	85	904
Oakley, Alfred T. (See Oakley, Clifford H. and A. T.)						
Oakley, Clifford H. and A. T., Cleveland, Ohio. Fillet	607,127	July 12	926	201	84	198
Oakley, Francis, Newport, R. I. Liquid-cooler	606,074	June 21	1921	441	83	1752
Oakley, William C. (See Foote, James H., assignor.)						
Ober, William Y., and C. W. Collyer, Lynn, Mass., assignors to Niagara Sprinkling Company, Portland, Me. Sprinkling apparatus	613,296	Nov. 1	130	30, 31	85	642
Oberfeld, Charles, and P. Braunbeck, San Francisco, Cal. Baker's oven	614,746	Nov. 22	2722	620 621	85	1189
Oberle, Johannes, Gernsbach, Germany. Bell	610,240	Sept. 6	184	41	84	1478
Obermann, August W., New York, N. Y. Culinary vessel	611,705	Oct. 4	202	47, 48	85	42
Obermeyer, Henry, Beatrice, Nebr. Reciprocating rotary engine	600,886	Mar. 22	2277	519	82	1705
Obermier, John G., Canton, Ohio. Lubricating-axle	610,195	Sept. 6	79	16	84	1455
Obernolte, August G. (See Porter, William C., assignor.)						
Ocean Power Company. (See Rider, Herbert E., assignor.)						
Ocheltree, Robert C. (See Hagan, Elijah J., assignor.)						
Odell, John H., New York, N. Y. Organ-action	609,291	Aug. 16	2109	500	84	1095
Odell, Robert C., New York, N. Y. Folding bed	605,126	June 7	99	26	83	1371
Oden, Joshua K., and S. K. Boleman, Linden, Tex. Car-coupling	606,935	July 5	525	115	84	104
Oderman, Eric H., assignor to Frick Company, Waynesborough, Pa. Pump	600,841	Mar. 15	2193	501	82	1676
Odgers, Albert M., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Card-mount	605,007	May 31	3225	742	83	1310
Odin, Frank A., Bridgeton, N. J. Can-cleaner	605,677	June 14	1138	264	83	1589
Odonnell, Edward G., Bennington, Vt. Water-pipe or hose-nozzle	603,487	May 3	444	99	83	687
Odquist, Victor, and J. C. Fyfe, assignors to Western Camera Manufacturing Company, Chicago, Ill. Photographic shutter	616,582	Dec. 27	2543	588	85	1960
Oechelhaeuser, Wilhelm von, Dessau, Germany. High-pressure gas-engine	596,613	Jan. 4	274	60	82	55
Oehl, Henry New York, N. Y. Acetylene-gas-generating lamp	606,228	June 28	2225	511	83	1830
Oehler, Firm of K. (See Rudolph, Christian, assignor.)						
Oehmen, Bartholomew, assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Auxiliary fire-alarm-telegraph apparatus	616,136	Dec. 20	1703	396 397	85	1773
Oehring, August J., assignor to Western Electric Company, Chicago, Ill. Brush-holder	598,271	Feb. 1	357	83	82	668
Oehring, August J., assignor to Western Electric Company, Chicago, Ill. Instrument-winding device	598,272	Feb. 1	358	83	82	669
Oehring, August J., assignor to Western Electric Company, Chicago, Ill. Instrument-winding device	598,273	Feb. 1	360	84	82	669
Oehrle Brothers & Co. (See Oehrle, Franklin W., assignor.)						
Oehrle, Franklin W., assignor to Oehrle Brothers & Co., Philadelphia, Pa. Ornamental cord or rope	599,191	Feb. 15	1906	451	82	997
Oertel, August. (See Brandt and Oertel.)						
Oertle, Christopher H., New York, N. Y. Asparagus-holder	602,097	Apr. 12	880	191	83	178
Oesterreich, August F., Winneconne, Wis. Treating wheat in manufacturing flour	601,777	Apr. 5	295	58, 59	83	56
Ofeldt, Frank W., New York, N. Y. Engine	611,792	Oct. 4	345	83	85	69
Ofenschüssl, Leopold. (See Burgwall and Ofenschüssl.)						
Officer, Thomas. (See Ball and Officer.)						
Ogburn, Calvin, Phoenix, Ariz. Ter. Acetylene-gas generator	603,655	May 10	757	169	83	764
Ogden, Benjamin F., Wellsville, Mo. Planing-machine	610,080	Aug. 30	3515	814 815	84	1399
Ogden, Dora, Columbus, Ind. Battery-zinc	608,216	Aug. 2	88	23	84	672
Ogden, Frederick H., New York, N. Y., assignor to H. Ill and C. Winckhofer, Newark, N. J. Door-check	602,687	Apr. 19	1906	494 495	83	391
Ogden, Frederick H., New York, N. Y., assignor to H. Ill and C. Winckhofer, Newark, N. J. Door-check	602,688	Apr. 19	1909	435	83	392
Ogden, John S., Brooklyn, N. Y. Manufacture of rubber-faced type-wheels	606,765	July 5	252	52, 53	84	51
Ogden, Mortimer C., New York, N. Y. Sheet-metal scissors or shears	606,472	June 28	2675	616	83	1919
Ogden, Otto G., assignor of one-half to S. P. Jones and J. M. Bradley, Louisville, Ky. Bottle	601,102	Mar. 22	2623	598	82	1771
Ogden, William W., Chatham, N. J. Wheel-tire	611,415	Sept. 27	2346	540	84	1944
Ogle, George W. (See Phillips, William R., assignor.)						
Ogle, Graham L., Wilmington, Del. Tire for vehicle-wheels	600,208	Mar. 8	1102	251	82	1450
Ogle, Percy J., London, England. Percussive drilling-machine	615,884	Dec. 13	1190	278 279	85	1658
Oglesby, Charles B. (See Dennis, Robert A., assignor.)						
Oglesby, Charles B., et al. (See McCarthy, Joseph, assignor.)						
Ogram, Alfred J., Literberry, Ill. Fence-post	598,434	Feb. 1	633	156	82	723
Ohio Brass Company. (See King and Mead, assignors.)						
Ohio Ceramic Engineering Company. (See Richardson and Holl, assignors.)						
Ohio Cultivator Company. (See Kouns, Moses W., assignor.)						
Ohio Rake Company. (See Lathrop, Frank K., assignor.)						
Ohio Rake Company. (See Little, Peter E., assignor.)						
Ohio Steel Company. (See Treat, Lincoln A., assignor.)						
Ohio Storage Battery Company. (See Washburn, George A., assignor.)						
Ohl, George A., Jr., Newark, N. J. Metallic lathing	616,202	Dec. 20	1829	423	85	1800
Ohl, George A., Newark, N. J., assignor to George A. Ohl & Company, of New Jersey. Machine for making sheet-metal laths	607,071	July 12	814	178	84	177
Ohlgart, George P., Baltimore, Md. Bicycle	602,354	Apr. 12	1320	294	83	266
Ohlhafer, Hinrich P. D., Hamburg, Germany. Mantle for incandescent gas-burners	603,473	May 3	415		83	680
Ohlson, Olof, Seaside, Oreg. Ax	614,747	Nov. 22	2724	621	85	1189
Ohmer, John F., Dayton, Ohio. Fare-recorder	597,560	Jan. 18	1899	442	82	404
Ohmer, John F., and H. Tyler, Dayton, Ohio; said Tyler assignor to said Ohmer. Fare-register	597,561	Jan. 18	1901	443 444	82	404
Ohmer, John F., and H. Tyler, Dayton, Ohio; said Tyler assignor to said Ohmer. Fare-register. (Reissue)	11,681	July 19	2373	503 504	84	497
Ohmer, Wilfred I., Dayton, Ohio. Petroleum-burner	604,781	May 31	2553	652	83	1238
Ohnemus, Anton, Quincy, Ill. Stove	609,698	Aug. 23	2356	668	84	1256
Ohnstrand, Enoch, assignor of one-fourth to E. C. Mack, Jamestown, N. Y. Ticket-case	614,272	Nov. 15	1858	429 430	85	1013
Ohring, John, San Francisco, Cal. Door-lock	615,571	Dec. 6	658	151	85	1540



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Ohrt, John J., Burlington, Iowa. Gas-engine.....	608,298	Aug. 2	222	52	84	699
Okey, William F., <i>et al.</i> (See Burdett, Oliver H., assignor.)						
Okun, Moses S., New York, N. Y. Electric-arc lamp.....	615,407	Dec. 6	361	87	85	1482
Okun, Moses S., New York, N. Y. Electric-arc lamp.....	615,408	Dec. 6	363	87	85	1483
Olander, Charles T. (See Norris, Thomas V., assignor.)						
Olberg, Gustav, assignor to Maschinenfabrik Grevenbroich, Actiengesellschaft, Grevenbroich, Germany. Purifying condensation-water from oil by filtration.....	602,098	Apr. 12	881	191 192	83	179
Oldaker, Henry W., Foote, Iowa. Thill for vehicles.....	614,495	Nov. 22	2282	522	85	1106
Oldendorph, John, St. Louis, Mo. Journal-bearing.....	597,429	Jan. 18	1680	390	82	359
Oldershaw, John B., Baltimore, Md. Fireplace-heater.....	610,196	Sept. 6	80	16	84	1456
Oldham, George, Philadelphia, Pa. Shedding-motion for looms.....	603,282	May 3	66	17	83	614
Oldham, James P. (See Carroll, Houston M., assignor.)						
Oldham, Joseph R., Cleveland, Ohio. Cargo-trimming carriage for vessels.....	600,594	Mar. 15	1783	408	82	1598
Oldham, Joshua, New York, N. Y. Meat or hand saw.....	607,700	July 19	2154	453	84	453
Oldham, Samuel, Philadelphia, Pa. Pneumatic impact-tool.....	609,162	Aug. 16	1858	442	84	1044
Oldoerp, Carl, <i>et al.</i> (See Fennan, William T., assignor.)						
Oleson, Ole, Lesterville, S. D. Cross-tie.....	601,101	Mar. 22	2622	598	82	1771
Oliger, Jacob D. (See Hunter, Victor E., assignor.)						
Olin, Franklin W., St. Louis, Mo. Air-brake.....	598,678	Feb. 8	1049	253	82	818
Olin, Franklin W., Alton, Ill. Weighing apparatus.....	601,674	Apr. 5	86	17	83	17
Olin, Franklin W., Alton, Ill. Weighing apparatus.....	605,127	June 7	101	27	83	1371
Olin, Fred C., assignor to Olin Gas Engine Company, Buffalo, N. Y. Gas-engine.....	613,390	Nov. 1	313	72, 73	85	676
Olin Gas Engine Company. (See Olin, Fred C., assignor.)						
Olin, Otto B. (See Wagner and Olin.)						
Olinger, Elemuel I., Unionville, Mo. Barbed-wire reel.....	599,660	Feb. 22	2815	654	82	1197
Olinger, Martin V., Bull Run, Tenn. Churn.....	597,736	Jan. 25	2201	514	82	479
Olive Wheel Company. (See Wheatley, Thomas, assignor.)						
Oliver, Christenna A., Payne's Corners, Ohio. Curtain-hanger.....	608,070	July 26	2860	611	84	610
Oliver, Dew R. (See Moore and Oliver.)						
Oliver, Frederick W., assignor to Publishing, Advertising and Trading Syndicate, London, England. Cartridge-case and making same.....	601,902	Apr. 5	538	111	83	101
Oliver, Frederick W., London, England, assignor, by mesne assignments, to American Pegamoid Company, New York, N. Y. Coated spindle or roller.....	607,453	July 19	1533	326	84	329
Oliver, Frederick W., London, England, assignor, by mesne assignments, to American Pegamoid Company, New York, N. Y. Belting.....	607,454	July 19	1535	327	84	329
Oliver, J. M., <i>et al.</i> (See Jenkins, Edwin J., assignor.)						
Oliver, James J., Brooklyn, N. Y. Curtain-stretcher.....	600,017	Mar. 1	625	142	82	1332
Oliver, John C., Versailles, Ohio. Apparatus for producing photographs in relief.....	612,504	Oct. 18	1601	382	85	332
Oliver, Marwood J., St. Tudy, England. Safety-lift.....	615,362	Dec. 6	261	61	85	1465
Oliver, Revilo, Chatsworth, Ill. Fence-post.....	598,003	Jan. 25	2671	623	82	568
Oliver, Robert, New York, N. Y. Ship's compass.....	609,863	Aug. 16	2230	527	84	1119
Oliver, Thomas, Chicago, assignor of one-fourth to F. A. Eastman, Woodstock, Ill. Typewriting machine.....	599,863	Mar. 1	350	80, 81	82	1280
Oliver Wire Company. (See Weaver, Edward H., assignor.)						
Olmstead, Freeman E., Denver, Colo. Keyhole-guard.....	606,734	July 5	174	39	84	36
Olmstead, Gus E., assignor of two-sevenths to H. W. Smith and W. J. Henry, Red Cliff, Colo. Portable stove.....	613,389	Nov. 1	310	72	85	676
Olmstead, Levi W., Galeton, Pa. Car-replacer.....	598,157	Feb. 1	142	33	82	629
Olmsted, Benjamin F., assignor to W. H. Olmsted, Newark, and J. H. Olmsted, Plainfield, N. J. Car-coupling.....	606,999	July 5	644	140	84	128
Olmsted, Henry W. (See Sperry and Olmsted.)						
Olmsted, Ida, Denver, Colo. Pinking-scissors.....	609,364	Aug. 16	2232	527	84	1119
Olmsted, John H., <i>et al.</i> (See Olmsted, Benjamin F., assignor.)						
Olmsted, William H., <i>et al.</i> (See Olmsted, Benjamin F., assignor.)						
Olney, Harmon J., Cedar Rapids, Iowa. Exhibit-protector.....	596,824	Jan. 4	651	150	82	126
Olsen, Addie F., Knowlton, Mont. Combination-tool.....	610,825	Sept. 13	1235	284	84	1698
Olsen, Charles E., Bowery Beach, Me. Automatic feathering-blade propeller.....	608,265	Aug. 2	164	40	84	687
Olsen, Frederick, New York, N. Y. Wrench.....	603,572	May 3	599	133	83	717
Olsen, Monrad J., Des Moines, Iowa. Barrel-lifter.....	597,243	Jan. 11	1358	317	82	279
Olson, Gust A., <i>et al.</i> (See Patton, Oliver C., assignor.)						
Olson, Håkam, Soperville, Ill. Horseshoe-calk.....	599,350	Feb. 22	2206	523	82	1077
Olson, Håkam, Soperville, Ill. Whiffletree-hook.....	606,357	June 28	2472	574	83	1879
Olson, John, Providence, R. I. Safety-cap for gas-burners.....	612,613	Oct. 18	1819	432	85	373
Olson, John A., Minneapolis, Minn. Acetylene-gas generator.....	607,701	July 19	2155	453	84	453
Olson, Neil L., Butte, Mont. Horseshoe.....	603,573	May 3	600	133	83	718
Olsson, Emil. (See Winquist and Olsson.)						
Olsson, Herman A., Quincy, Mass. Automatic electric fire-alarm.....	605,795	June 14	1358	311	83	1630
Oltmer, William. (See Belville and Oltmer.)						
Olund, Axel A., assignor of one-half to C. A. Nelson, Minneapolis, Minn. Line-dividing scale.....	604,075	May 17	1560	349	83	952
Olyphant, Robert M., Jr., Southampton, N. Y. Supplemental seat for bicycles.....	596,786	Jan. 4	587	136	82	113
Omaha Air Scale Company. (See Wintherlich, Hans J., assignor.)						
Omeis, Francis, Charleston, S. C. Fireproof construction for partitions and walls.....	610,457	Sept. 6	590	132	84	1552
Omwake, John, Cincinnati, Ohio. Duplicate-whist apparatus.....	597,122	Jan. 11	1168	274	82	243
Oneida Community. (See Ellis, Ferrand F., assignor.)						
Oneida Community. (See Reeve, Amos G., assignor.)						
Only Perfect Non-Refillable Bottle Company. (See Gerlach, Emil, assignor.)						
Onstad, John H., Dayton, Ohio. Window-screen.....	601,715	Apr. 5	180	35	83	36
Opalla, Arthur, Chicago, Ill. Loose-leaf bookbinder.....	606,978	July 5	594	130	84	118
Oppenheim, James, New York, N. Y. Type-cleaner for type-writing machines.....	616,422	Dec. 20	2245	523	85	1883
Oppenheimer, Jacob. (See Dirksen, William W., assignor.)						
Oppenneer, James. (See Naab and Grant, assignors.)						
Oppermann, Emil L., London, England. Apparatus for extracting gold, &c., from dry-crushed ores.....	596,535	Jan. 4	130	29	82	27
Orchard, James C., Tacoma, Wash. Embroidery-holder.....	601,523	Mar. 29	3382	766	82	1945
Ord, John S., Aptos, Cal. Pitman connection for cutting mechanism of mowers, &c.....	598,004	Jan. 25	2672	624	82	563
Ordway, Albert H. (See Ordway, Oscar H., assignor.)						
Ordway, Oscar H., assignor to A. H. Ordway, South Framingham, Mass. Dowel-making machine.....	603,965	May 10	1300	297	83	869
Ordway, William P., Boston, Mass. Card-holder for duplicate whist.....	610,559	Sept. 13	780	177	84	1604
Ore Atomic Reduction and Gold Extracting Company. (See Webb, John F., assignor.)						
Orewiler, Benjamin F., assignor of one-half to J. Currie, Shelby, Ohio. Hook for hook-and-eye fastening.....	607,189	July 12	1039	224	84	217
Orford, Richard, assignor of one-half to A. Reich, St. Joseph, Mich. Spray attachment for hose.....	612,433	Oct. 18	1485	358	85	310



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Orgain, Rice. (See Glenn, James L., Jr., assignor.)						
Orling, Axel. (See Armstrong and Orling.)						
Ormand, David. (See Martin and Ormand.)						
Ormiston, Cyrus D., assignor to United Indurated Fibre Company, Lockport, N. Y.						
Pulp-molding machine	598,005	Jan. 25	2674	624	82	568
Ormiston, Robert B., Winnipeg, Canada. Thawing apparatus	605,556	June 14	897	209	83	1546
Ormond, Albert E., assignor of one-fourth to J. G. Bennett, Winnipeg, Canada. Pin-holder	615,885	Dec. 13	1193	279	85	1658
Ormond, Albert E., assignor of one-fourth to J. G. Bennett, Winnipeg, Canada. Lock	615,886	Dec. 13	1195	279 280	85	1659
Ormsby, Albertha A., Detroit, Mich. Adjustable dress-chart	599,247	Feb. 15	1996	474	82	1014
Orr, James P., and G. H. Fugh, Pittsburg, Pa. Switch and switch-operating mechanism	609,292	Aug. 16	2111	500 501	84	1095
Orr, Leonard D., Pegram, Ill. Registering apparatus	611,139	Sept. 20	1799	415	84	1823
Orr, Robert S., Allegheny, Pa. Bicycle-brake	602,470	Apr. 19	1528	347	83	321
Orr, Thomas E. (See Woodall and Orr.)						
Orr, William, assignor to New Jersey Wire Cloth Company, Trenton, N. J. Fireproof construction	598,481	Feb. 1	699	170	82	735
Orr, William H., Beausejour, Canada. Calked horseshoe-plate	613,709	Nov. 8	868	200	85	802
Orr, William H., Beausejour, Canada. Clothes-fastener	613,710	Nov. 8	869	201	85	802
Orr, William W., Chicago, assignor of one-half to C. F. Lund, Elgin, Ill., Valve for pneumatic tires	616,584	Dec. 27	2546	589	85	1960
Orrell, Ephraim E., Ware, assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Clearer-roll for carding-machines	603,044	Apr. 26	2514	570	83	522
Ortmann, John H. W., assignor to H. Leonhardt, Hamburg, Germany. Pasteurizing liquids	603,920	May 10	1234	280	83	856
Orton, Lewis W., Cloud Chief, Okla. Ter. Gate	597,653	Jan. 18	2060	482	82	435
Ortt, Rowley K., Norristown, Pa. Lawn-mower	610,081	Aug. 30	3516	815	84	1400
Orvis, Orel D., St. Louis, Mo. Steam-generator	603,223	Apr. 26	2818	643 644 645	83	580
Orvis, Orland D., Chicago, Ill. Steam-boiler furnace	611,975	Oct. 4	659	160	85	129
Osborn Cash Register Company. (See Osborn, Francis C., assignor.)						
Osborn, Charles H., Macon, Mich. Attachment for box-cars	615,740	Dec. 13	954	221	85	1613
Osborn, Cyrus V., Dayton, Ohio. Conduit for electric railways	597,508	Jan. 18	1826	422	82	389
Osborn, Francis C., assignor to Osborn Cash Register Company, Limited, Detroit, Mich. Cash-register	615,409	Dec. 6	366	87, 88	85	1483
Osborn, Henry P., New York, N. Y. Vehicle-wheel	601,324	Mar. 29	3050	687	82	1879
Osborn, Martin. (See Becker and Osborn.)						
Osborne, Eugene F., assignor to Osborne Steam Engineering Company, Chicago, Ill. Fog-signal	612,911	Oct. 25	2364	563	85	495
Osborne, George, Brooklyn, N. Y. Bicycle attachment	599,790	Mar. 1	199	49	82	1253
Osborne, John W., San José, Cal. Apparatus for bending form-plates for printing	608,706	Aug. 9	965	222 223	84	865
Osborne Steam Engineering Company. (See Osborne, Eugene F., assignor.)						
Osborne, William W., assignor of two-thirds to F. B. Turner and D. D. Looper, Kansas City, Mo. Mathematical toy	602,954	Apr. 26	2375	541	83	497
Oscillating Truss Company. (See Booth, Thomas W., assignor.)						
Osel, Kistel, St. Paul, Minn. Door-hanger	615,492	Dec. 6	508	118	85	1510
Osgood, Albert D., Harbine, Nebr. Corn-harvester	597,545	Jan. 18	1877	435 436	82	399
Osgood, Horatio B., Binghamton, N. Y. Wheeled vehicle	596,683	Jan. 4	400	90	82	79
Osgood, Isaac, Amesbury, Mass. Carriage-coupling	607,948	July 26	2633	559	84	562
Osgood, John D. (See Osgood, Richard P. and J. D.)						
Osgood, Richard P. and J. D., Methuen, Mass. Insulating attachment for electrical connectors	598,109	Feb. 1	68	16	82	616
Osners, Frank C., New York, N. Y. Drapery-holder for shelves, &c.	601,354	Mar. 29	3095	699	82	1889
Osten, James H., White City, Kans. Tire-tightener	603,733	May 10	884	197	83	789
Ostenberg, John A., Walpole, N. H. Gas-engine	612,756	Oct. 18	2062	490	85	419
Ostendorff, William, Union, N. J. Curtain-pole	614,748	Nov. 22	2726	622	85	1189
Oster, Mathew C., Wahpeton, N. D. Railway-signal	606,075	June 21	1922	441 442	83	1752
Ostergren, Oscar P. (See Cardell and Ostergren.)						
Ostertag, John H., Columbia, Pa. Shelf-support	598,742	Feb. 8	1158	278	82	839
Ostrander, William, Watertown, S. D. Fender for horse hay-rakes	597,170	Jan. 11	1246	292 293	82	259
Ostrander, Willis H., Boston, Mass. Magazine-firearm	603,066	Apr. 26	2548	579 580	83	528
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Yielding automatic cutter mechanism for sewing-machines	607,949	July 26	2636	560	84	563
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Separator for buttonhole-sewing machines	608,370	Aug. 2	358	78, 79	84	727
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Tension-controlling device for buttonhole-sewing machines	614,973	Nov. 29	3163	727	85	1291
Oswald, Fridolin, Alhambra, Ill. Drawing-desk	616,347	Dec. 20	2105	490 491	85	1856
Oswego Crate Company. (See Ryan, Michael C., assignor.)						
Otenhouse, Henry, McKinney, Tex. Cultivator	608,790	Aug. 9	1103	255	84	890
Otis Brothers & Company. (See Brown, Thomas E., Jr., assignor.)						
Otis Brothers & Company. (See Ihlder, John D., assignor.)						
Otis Brothers & Company. (See Otis and Smith, assignors.)						
Otis Brothers & Company. (See Sundt, August, assignor.)						
Otis, Frank I. (See Blazer, Almer N., assignor.)						
Otis, Norton P., and R. C. Smith, Yonkers, assignors to Otis Brothers & Company, New York, N. Y. Controlling device for electric elevators	610,197	Sept. 6	81	17	84	1456
Ott, Benedict, La Crosse, Wis. Fountain	603,342	May 3	172	40	83	635
Ott, Charles, Clinton, Iowa. Sleigh-runner	610,082	Aug. 30	3518	815	84	1400
Ott, Philipp, and T. Kroeber, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Blue azin dye	602,544	Apr. 19	1647	-----	83	342
Ott, Philipp, and T. Kroeber, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, New York, N. Y. Blue azin dye	603,013	Apr. 26	2467	-----	83	513
Ott, Philipp, and T. Kroeber, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, of New York. Blue azin dye and making same	606,295	June 28	2347	-----	83	1855
Otterson, James F. J., Marlborough, Mass., assignor to Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine	614,974	Nov. 29	3165	727	85	1292
Ottignon, Augustus W., Boston, Mass. Handle for packages	606,936	July 5	526	115	84	105



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Ottney, William F., Gibsonburg, Ohio. Oil-well-casing head	608,899	Aug. 9	1326	309	84	931
Otto, Albin P., Trenton, N. J. Method of and apparatus for enameling	605,903	June 21	1579	363	83	1691
Otto Gas Engine Works. (See Winand, Paul A. N., assignor.)						
Otto, Henry J., and A. E. Wielsch, Butte, Mont.; said Otto assignor of one-sixth to said Wielsch. Railway attachment for bicycles	608,071	July 26	2861	612	84	610
Otto, John E., Rush Lake, Wis. Combined bag-holder and weigher	608,900	Aug. 9	1327	309	84	931
Otto, John W., Altoona, Pa. Churn	605,649	June 14	1088	250	83	1580
Otto, Julius, Milwaukee, Wis. Vehicle-stopper	612,434	Oct. 18	1486	359	85	310
Otto, Louis, assignor to Walker Otto Company, Chicago, Ill. Machine for stamping cards from blanks	609,119	Aug. 16	1787	425 426	84	1030
Otto, Marius, Paris, France. Apparatus for producing ozone	599,455	Feb. 22	2418	568 569	82	1119
Otto, Theodore W. (See Bradley, Otto, and Wolfe.)						
Otto, Theodore W., Stamford, Conn. Strainer and sifter	599,728	Mar. 1	87	21	82	1233
Oudin, Charles P., New York, N. Y., assignor, by mesne assignments, to Acme Supply Company, of New York. Mail-marking machine	604,689	May 24	2683	614 615	83	1186
Oursler, Jordan M., Council Bluffs, Iowa. Dust-pan	606,809	July 5	329	69	84	66
Oursler, Rebecca M., Pittsburg, Pa. Corset-steel reinforce	600,551	Mar. 15	1714	392	82	1586
Outlaw, John W., assignor of one-fourth to C. P. Robinson, New York, N. Y. Horseshoe	614,273	Nov. 15	1860	430	85	1013
Ovenden, Albert, Akron, Ohio. Electric alarm system	606,076	June 21	1929	442 443	83	1753
Ovenshire, Elijah A., assignor to American Harrow Company, Detroit, Mich. Cultivator	598,057	Jan. 25	2753	642	82	584
Overbaugh, Charles E., Bayonne, N. J. Cartridge-shell	610,660	Sept. 13	939	218	84	1639
Overmyer, Charles F., Fostoria, Ohio. Woodworking-machine	608,072	July 26	2862	612	84	610
Overton, John B., Port Jefferson, N. Y. Water-elevator	601,980	Apr. 5	690	146	83	130
Overturf, R. Pearl. (See Inskeep, James M., assignor.)						
Oviatt, Moseman C., Traverse City, Mich. Bicycle-wheel	603,574	May 3	601	134	83	718
Owen, Charles F., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press	615,887	Dec. 13	1196	280 281	85	1659
Owen, Edward H. (See Donaldson, Owen, and Williams.)						
Owen, Elerson P., Manchester, assignor of one-half to M. Riddle, Jr., Petersburg, Va. Signal and switch interlocking apparatus	601,757	Apr. 5	258	51	83	49
Owen, Elerson P., Manchester, assignor of one-half to M. Riddle, Jr., Petersburg, Va. Switch throwing and locking apparatus	604,782	May 31	2855	653	83	1238
Owen, Ernest D. (See Harrell, Joseph J., assignor.)						
Owen, George A., Springfield, Mass. Revolver	602,870	Apr. 26	2215	502	83	466
Owen, George F., Canal Winchester, Ohio. Rail-joint	614,885	Nov. 29	2981	683	85	1254
Owen, Gideon G., Houston, Ohio. Grave-vault	606,230	June 28	2228	512	83	1830
Owen, James E., J. C. Gabel, Jr., and G. F. McKinney, Onarga, Ill. Door-hanger	606,077	June 21	1935	443	83	1754
Owen, Thomas G., Newport, R. I. Garment-hanger	605,332	June 7	516	115	83	1451
Owen, William H. (See Motley, Thomas H., assignor.)						
Owens, George H., Addison, N. Y. Crate	604,076	May 17	1561	349 350	83	953
Owens, John A., assignor of one-half to J. C. Saunders, Bonham, Tex. Jeweler's stone-setting instrument	603,201	Apr. 26	2783	634	83	573
Owens, John H., Hillsborough, Tex. Cultivator	611,437	Sept. 27	2390	548	84	1951
Owens, Michael J., assignor to Toledo Glass Company, Toledo, Ohio. Machine for blowing glass. (Reissue)	11,668	June 14	1437	329 330 331	83	1645
Owens, Oscar, San Francisco, Cal., assignor to American Type Founders Company. Igniter for explosive-engines	605,333	June 7	517	115 116	83	1451
Owens, Oscar, San Francisco, Cal., assignor to American Type Founder's Company, of New Jersey. Carbureter	615,572	Dec. 6	662	152	85	1541
Owens, Oscar N., Cherryvale, Kans. Wire-fence machine	610,514	Sept. 6	701	158	84	1573
Owens, Wilbur F. (See Hicks, Oliver B., assignor.)						
Owings, Samuel A., Merritt, Ill. Thill-coupling	614,127	Nov. 15	1588	364	85	963
Owsley, Williams P., Cypress, Ky. Reel-carrier	614,128	Nov. 15	1589	364	85	964
Oyaas, John J., Eau Claire, Wis. Handle for stove-dampers	602,644	Apr. 19	1824	416	83	375
Ozenberger, Joseph, Middletown, Cal. Gate	610,661	Sept. 13	940	218	84	1639
Ozias, Orange O., Dayton, Ohio. Scale	596,760	Jan. 4	545	125	82	105
Ozias, Orange O., Dayton, Ohio. Price and weighing scale	616,348	Dec. 20	2107	491 492	85	1856
Ozonol Company. (See Irving, Frank K., assignor.)						
P. & F. Corbin. (See Case, Cromwell O., assignor.)						
P. & F. Corbin. (See Glover, Charles, assignor.)						
P. & F. Manufacturing Co. (See Deem, Miller M., assignor.)						
P. H. & F. M. Roots Company. (See Enyart, Ralph C., assignor.)						
P. Lorillard Company. (See Harmon, Orville S., assignor.)						
P. Lorillard Company. (See Tremaine and Lorillard, assignors.)						
P. P. Mast & Company. (See Dodson, Harry E., assignor.)						
P. P. Mast & Company. (See Mast, Phineas P., assignor.)						
P. R. Jackson & Company. (See Lewis and Howitt, assignors.)						
Paar, Daniel and H., Canton, Ohio. Horseshoe	598,482	Feb. 1	704	171	82	736
Paar, Henry. (See Paar, Daniel and H.)						
Paar, Henry, assignor of one-half to L. D. Paar, Canton, Ohio. Horseshoe	608,156	July 26	2996	643	84	636
Paar, Louis D. (See Paar, Henry, assignor.)						
Pabst, Friedrich G., Hamburg, Germany. Shoe-last	600,678	Mar. 15	1928	439	82	1625
Pacaud, George H., Fall River, Mass. Attachment for bicycles	607,455	July 19	1538	327	84	329
Pace, Albert L., and J. P. Carpenter, Forrest, Ill. Couch or lounge	600,018	Mar. 1	627	142 143	82	1333
Pacific Coast Dredging and Reclamation Company. (See Parker, John R., assignor.)						
Pack, John W., Berkeley, Cal. Recovery of gold from waste solutions of chlorination-works	606,810	July 5	330	69	84	66
Packard, James W., et al. (See Jackson, Dugald C. and W. B., assignors.)						
Packard, William D., et al. (See Jackson, Dugald C. and W. B., assignors.)						
Packard, William D., Warren, Ohio. Electrical fuse-wire holder	613,594	Nov. 1	670	155	85	743
Packer, George W., assignor to Deering Harvester Company, Chicago, Ill. Machine for applying gudgeons to rollers	615,888	Dec. 13	1200	281	85	1660
Packer, Jabez A., Wellington, New Zealand. Artificial limb	608,791	Aug. 9	1105	256	84	890
Packer, Orville H., Junction, Nev. Pneumatic tire	599,974	Mar. 1	549	127	82	1317
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Furrow-opener for seeding implements	601,477	Mar. 29	3298	746 747	82	1927
Paddack, Lewis E., Duluth, Minn. Time-recorder	610,496	Sept. 6	671	150	84	1567
Paddock, Daniel H. (See Dayhoff, William C., assignor.)						
Paddock, H. E., et al. (See Wilder, Norman B., assignor.)						
Paddock, Harvin, assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Ticket and ribbon holder for recording-scales	597,654	Jan. 18	2061	482	82	436



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Paddock, Helen, and H. L. Freeborn, Rochester, N. Y. Umbrella-holder .....	616,555	Dec. 27	2504	579	85	1953
Padgett, Elias M. (See Taylor, Ezra, assignor.) .....						
Padgett, James M., Topeka, Kans. Flue-stopper .....	605,128	June 7	104	27	83	1371
Page, Alfred, and S. S. Bloom, Philadelphia, Pa. Mold for artificial teeth .....	613,711	Nov. 8	870	201	85	802
Page, Arthur, assignor of one-fourth to F. McCormack, Hornellsville, N. Y. Bicycle-brake .....	613,909	Nov. 8	1213	277	85	868
Page, Calvin S., Des Moines, Iowa. Chemical fire-extinguisher .....	598,955	Feb. 15	1514	361	82	924
Page, Charles E., assignor to Page Saddle Company, Denver, Colo. Bicycle-saddle .....	609,944	Aug. 30	3273	763	84	1351
Page, Gilbert, Merrick, Mass. Buckle .....	598,956	Feb. 15	1515	361	82	924
Page, John W. (See Lamb and Page.) .....						
Page, Robert N. (See Jones, Milton L., assignor.) .....						
Page Saddle Company. (See Page, Charles E., assignor.) .....						
Page, William H., Basic City, Va. Stovepipe .....	599,248	Feb. 15	2000	475	82	1015
Page, William H., Basic City, Va. Draft-supply apparatus .....	603,453	May 3	368	83	83	671
Page, William H., Basic City, Va. Stove .....	615,302	Dec. 6	144	38	85	1441
Page Woven-Wire Fence Company. (See Lamb, Charles M., assignor.) .....						
Page Woven-Wire Fence Company (See Lamb and Page, assignors.) .....						
Page Woven-Wire Fence Company. (See Sawdy, Orville H., assignor.) .....						
Page Woven-Wire Fence Company. (See Snedeker, James W., assignor.) .....						
Paget, Leonard, New York, N. Y., assignor to D. S. Ferris. Portable electric lamp .....	599,975	Mar. 1	550	127	82	1317
Paige, Charles F., and S. C. Arnold, assignors to National Specialty Manufacturing Company, Denver, Colo. Air-valve .....	601,213	Mar. 22	2815	644	82	1807
Paige, James H., Manchester, assignor to L. E. Charles, Bedford, N. H. Support for curling or crimping irons .....	605,807	June 14	1379	316	83	1634
Paige, James H., Manchester, assignor to L. E. Charles, Bedford, N. H. Broom-support .....	605,808	June 14	1380	316	83	1634
Paige, Sam K., <i>et al.</i> (See Paige, Van R., assignor.) .....						
Paige, Van R., Hopkinton, N. H. Device for drawing spikes, bolts, &c .....	597,294	Jan. 11	1434	336	82	294
Paige, Van R., Hopkinton, assignor of two-thirds to K. D. Pierce, Hillsborough, and S. K. Paige, Warner, N. H. Spike .....	602,955	Apr. 26	2377	542	83	497
Pain, Ernest, Auxerre, France. Rotary brush .....	599,044	Feb. 15	1668	394	82	955
Pain, Robert W., New York, N. Y., assignor to Æolian Company, Meriden, Conn. Device for attaching music-rolls to mechanical musical instruments .....	601,161	Mar. 22	2716	625	82	1789
Pain, Robert W., New York, N. Y., assignor to Æolian Company, Meriden, Conn. Adjustable take-up music-roll for mechanical musical instruments .....	601,162	Mar. 22	2718	625	82	1790
Pain, Robert W., New York, N. Y., assignor to Æolian Company, Meriden, Conn. Mechanical musical instrument .....	601,163	Mar. 22	2719	625 626	82	1790
Pain, Robert W., New York, N. Y., assignor to Æolian Company, of Connecticut. Musical instrument .....	614,886	Nov. 20	2982	683 684	85	1254
Painchaud, Ludger, Salem, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom-temple .....	598,808	Feb. 8	1253	303	82	857
Paine, Clinton J., assignor of one-half to A. S. Johnson, National Military Home, Cal. Ore-concentrator .....	597,617	Jan. 18	1997	465	82	424
Paine, George H. (See English, Peter, assignor.) .....						
Paine, Henry H., Merchantville, N. J. Convertible chair .....	604,941	May 31	3120	717	83	1290
Painter, Arthur, Nelson, Canada, assignor to H. M. Barstow, Napa, Cal. Apparatus for loading movable carriers .....	613,595	Nov. 1	672	155	85	744
Painter, Edward L., Owen's Mills, Md. Trace-fastener .....	607,000	July 5	649	140	84	129
Painter, William, Baltimore, Md. Pencil .....	602,355	Apr. 12	1322	294	83	266
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Sheet-feeding mechanism for punching-machines .....	605,334	June 7	519	116 117	83	1452
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Bottle-stopper. (Reissue) .....	11,685	July 26	3018	649	84	639
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Bottle-sealing device .....	608,157	July 26	2997	643	84	636
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Bottling-machine .....	608,158	July 26	2998	644 645 646	84	636
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Machine for applying corks and seals to bottles .....	609,209	Aug. 16	1935	460	84	1058
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Apparatus for forming corrugated caps .....	613,936	Nov. 8	1254	285	85	876
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Bottle-closure .....	615,099	Nov. 29	3406	781	85	1335
Palacio, Martin A. de, Madrid, Spain. Aerial railway .....	602,239	Apr. 12	1128	248	83	227
Palen & Burns <i>et al.</i> (See Hill, William, assignor.) .....						
Palethorpe, James A., Liverpool, England, assignor to Tobacco Warehousing and Trading Company, Danville, Va. Insecticide .....	596,761	Jan. 4	547		82	105
Paley, George. (See Sutcliffe, James A., assignor.) .....						
Palla, Anton, Prague, Austria-Hungary. Throttle-valve for controlling locomotive-blowers .....	609,830	Aug. 30	3080	718	84	1313
Pallas, Alexander, assignor of one-half to W. F. Schaefer, New York, N. Y. Pneumatic plug for water or waste pipes .....	614,749	Nov. 22	2726	622	85	1189
Palm, Albert, Sterling, Ill. Cutting apparatus .....	604,413	May 24	2187	490	83	1094
Palm, Carl S., Elgin, Tex. Store-fixture .....	600,233	Mar. 8	1142	260	82	1458
Palmenberg, Emil T., assignor to J. R. Palmenberg's Sons, New York, N. Y. Display-fixture for stores .....	605,678	June 14	1140	265	83	1590
Palmenberg's Sons, J. R. (See Palmenberg, Emil T., assignor.) .....						
Palmer, Albert E. (See Klimmek, Otto, assignor.) .....						
Palmer, Arthur P., and H. L. Phelps, Athens, Pa. Street-sweeper .....	616,685	Dec. 27	2754	639 640	85	2001
Palmer, B. Frank, Philadelphia, Pa. Type-writing machine .....	597,015	Jan. 11	976	230 231	82	206
Palmer, Charles H., and J. W. Denmead, Akron, Ohio. Paper-box-making machine .....	602,140	Apr. 12	948	207 208	83	191
Palmer, Charles O., Cleveland, Ohio. Motor-car .....	609,043	Aug. 16	1637	391	84	1005
Palmer, Chase, and H. G. Brownell, Louisville, Ky. Filtering apparatus .....	599,009	Feb. 15	1603	380	82	941
Palmer, Dolphas D., Worcester, Mass., assignor to J. J. Asch, South Norwalk, Conn. Fur-plucking machine .....	614,408	Nov. 15	2107	485 486	85	1060
Palmer, Frederick L. (See Curtis, Andrew J., assignor.) .....						
Palmer, George G., New York, N. Y. Tobacco-pipe .....	606,473	June 28	2676	616	83	1919
Palmer, George W. (See Hill and Hitchcock, assignors.) .....						
Palmer, Herbert R., Cleveland, Ohio. Hoisting and conveying apparatus .....	602,168	Apr. 12	1013	223	83	204
Palmer, Isaac E., Middletown, Conn. Loom for cross-weaving .....	597,856	Jan. 25	2416	563 564	82	520
Palmer, Isaac E., Middletown, Conn. Hammock attachment .....	603,014	Apr. 26	2469	561	83	513



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Palmer, Isaac E., Middletown, Conn. Means for forming wide sheds of warp from narrow or short supply-beams.	603,407	May 3	284	63	83	655
Palmer, Isaac E., Middletown, Conn. Seat attachment for hammocks.	603,408	May 3	286	64	83	655
Palmer, Isaac E., Middletown, Conn. Chair.	604,212	May 17	1808	407	83	1001
Palmer, Isaac E., Middletown, Conn. Hammock-spreader.	604,942	May 31	3121	717	83	1290
Palmer, Isaac E., Middletown, Conn. Fringe-making attachment for hammock-loom.	605,971	June 21	1723	395 396	83	1717
Palmer, Isaac E., Middletown, Conn. Reel and support.	611,020	Sept. 20	1580	362	84	1781
Palmer, Isaac E., Middletown, Conn. Longitudinal stretcher for hammocks.	612,991	Oct. 25	2488	592	85	522
Palmer, Isaac E., Middletown, Conn. Means for suspending hammocks.	614,234	Nov. 15	1794	414	85	1001
Palmer, Isaac E., Middletown, Conn. Chair.	614,235	Nov. 15	1795	414	85	1001
Palmer, Isaac E., Middletown, Conn. Pillow attachment for hammocks or chair-backs.	614,620	Nov. 22	2495	570	85	1144
Palmer, Isaac E., Middletown, Conn. Hammock.	614,621	Nov. 22	2496	570	85	1145
Palmer, John F., assignor of one-half to E. H. Godshalk, Philadelphia, Pa. Attachment for knitting-machines.	611,645	Oct. 4	93	23	85	21
Palmer, John F., Riverside, Ill. Repair device for pneumatic tires.	603,045	Apr. 26	2515	570	83	522
Palmer, John F., Riverside, assignor to Palmer Pneumatic Tire Company, Chicago, Ill. Pneumatic tire. (Reissue.)	11,677	July 5	664	144	84	132
Palmer, John M., Fort Grant, Ariz. Ter. Wave-power.	597,832	Jan. 25	2374	554 555	82	510
Palmer, John M., Fort Grant, Ariz. Ter. Wave-power.	597,833	Jan. 25	2380	555	82	512
Palmer, John M., Fort Grant, Ariz. Ter. Direct-acting wave-power.	607,072	July 12	816	178 179	84	177
Palmer, Joseph C., Norwich, Conn. Display-frame.	602,099	Apr. 12	884	192	83	179
Palmer, Josiah C., <i>et al.</i> (See Horrall, William A., assignor.)						
Palmer, Morris, <i>et al.</i> (See Urbanek, Joseph, assignor.)						
Palmer Pneumatic Tire Company. (See Palmer, John F., assignor.) (Reissue.)						
Palmer, Reuben T., Jr., and F. W. Mercer, New London, Conn. Device for supporting and stretching bed-comfortables.	604,414	May 24	2189	490	83	1094
Palmer, Samuel, Newark, N. J. Laundry-stove.	611,818	Oct. 4	394	94	85	79
Palmer, Samuel B., Lockhart, Minn. Combined wood and straw burning heating and cooking stove.	602,998	Apr. 26	2443	557	83	508
Palmer, Thomas, <i>et al.</i> (See Hogan, Daniel, assignor.)						
Palmetto Fibre Company. (See Young, McClintock, assignor.)						
Palmiter, Samuel, Jamestown, assignor to Syracuse Handle Bar Company, Syracuse, N. Y. Bicycle handle-bar.	599,301	Feb. 15	2093	495	82	1033
Palmtag, Martin, New Whatcom, Wash. Runner for vehicles.	613,297	Nov. 1	131	31	85	642
Palmtag, Martin, New Whatcom, Wash. Runner for vehicles.	613,298	Nov. 1	133	31	85	643
Pancoast, Richard M., Camden, N. J. Ink-eraser and manicure implement.	606,937	July 5	527	116	84	105
Pancoast, Richard M., Camden, N. J. Window-ventilator.	614,750	Nov. 22	2728	622 623	85	1190
Pancoast, Richard M., Camden, N. J., assignor to Pancoast Ventilator Company, of New Jersey. Ventilator and ventilator-brace.	605,508	June 14	821	191	83	1531
Pancoast Ventilator Company. (See Pancoast, Richard M., assignor.)						
Pangburn, Elmer E., Elizabeth, Pa. Extension-table.	614,751	Nov. 22	2731	623	85	1190
Panhoff, Louise V., <i>et al.</i> (See Thoma, Julius L., assignor.)						
Pansard, Paul, Paris, France. Saddle for velocipedes.	609,459	Aug. 23	2412	565 566	84	1172
Pantaleoni, Maffeo. (See Pignotti, Lori, Regnoli, Besso, and Pantaleoni.)						
Papendell, Robert, assignor to C. J. Tagliabue, Brooklyn, N. Y. Stethoscope.	599,064	Feb. 15	1698	402	82	960
Papineau, Joseph, and F. Hysert, Buffalo, N. Y. Mechanism for actuating doors or gates of elevators.	613,468	Nov. 1	453	103 104	85	703
Papps, John H. and L. F., Southsea, assignors of one-third to T. Harrison, London, England. Device for sustaining and adjusting tension of wires of pianofortes.	609,210	Aug. 16	1939	461	84	1059
Papps, Louis F. (See Papps, John H. and L. F.)						
Paradis, Lubin, Cambridge, and N. Desrosiers, Boston, Mass. Hansom-cab.	601,202	Mar. 22	2798	639	82	1803
Paradis, Lubin, Cambridge, and N. Desrosiers, Boston, Mass. Hansom-cab.	615,633	Dec. 6	769	178	85	1564
Parbel, Joseph, and J. A. Staven, Grand Rapids, Mich. Carpet-sweeper.	604,783	May 31	2858	653	83	1238
Parfitt, Alfred, Topeka, Kans., assignor, by mesne assignments, to Johnson-Parfitt Tool Company, Springfield, Ill. Pneumatic hammer.	604,633	May 24	2586	590	83	1167
Paris, Hugh, Rat Portage, Canada. Mute for stringed instruments.	611,183	Sept. 20	1871	432	84	1837
Parish, Edward W., Leicester, England. Low-pressure steam apparatus for cooking, &c.	615,741	Dec. 13	955	222	85	1613
Parish, Ulysses S., and F. A. Rudolph, Carmi, Ill. Curtain-holder.	598,533	Feb. 8	797	191	82	771
Parish, Ulysses S., and F. A. Rudolph, Carmi, Ill. Curtain-holder.	607,702	July 19	2159	454	84	454
Park, Charles S. and G. B., Greenfield, Mass. Car-coupling.	616,203	Dec. 20	1831	423	85	1800
Park, Frank E., Nichola, Ala. Tonguing-and-grooving machine.	600,842	Mar. 15	2194	501	82	1676
Park, George B. (See Park, Charles S. and G. B.)						
Park, Harvey S., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake.	605,904	June 21	1580	363	83	1692
Park, Harvey S., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake.	605,905	June 21	1583	363 364	83	1692
Park, Harvey S., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake.	608,621	Aug. 9	807	187	84	834
Park, Harvey S., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake.	610,947	Sept. 20	1439	330 331	84	1755
Park, Harvey S., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake.	610,948	Sept. 20	1443	331	84	1755
Park, Louis C., Vancouver, Canada, assignor to W. W. Slater and J. Galloway, Jr., Edinburgh, Scotland. Amalgamator for gold-saving.	614,975	Nov. 29	3168	727	85	1292
Park, Mortimer C., Platte City, Mo. Combined gasolene blowpipe and burner.	596,536	Jan. 4	131	30	82	28
Park, Richard G., West Chester, Pa. Hinge.	605,509	June 14	824	191	83	1531
Park, William R., Taunton, assignor to Hancock Inspirator Company, Boston, Mass. Injector.	606,766	July 5	254	53	84	51
Park, William R., Taunton, and B. T. Williston, Somerville, assignors to Hancock Inspirator Company, Boston, Mass. Injector.	609,163	Aug. 16	1860	442 443 444	84	1044
Park, William R., Taunton, and B. T. Williston, Somerville, assignors to Hancock Inspirator Company, Boston, Mass. Injector.	614,752	Nov. 22	2732	623 624	85	1190
Parke, James D., and J. S. Lamb, Toledo, assignors of one-third to E. A. McLain, Grand Rapids, Ohio. Dust and dress guard.	599,192	Feb. 15	1907	451	82	997
Parker, Albert, Harvey, Ill. Harvester.	600,927	Mar. 22	2342	532	82	1717
Parker, Alfred J., Newark, N. J., assignor to H. L. Hepburn, New York, N. Y. Saddle-support for velocipedes.	602,018	Apr. 5	743	160	83	141
Parker, Barton J., <i>et al.</i> (See Raisch, Harry J., assignor.)						
Parker, Barton J., and F. G. Cross, said Parker assignor to G. X. Wendling, San Francisco, Cal. Pipe-bending machine.	608,383	Aug. 2	382	83, 84	84	731



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Parker, Charles F., Washington Court-House, Ohio. Wainscoting and parquetry for hard-wood floors, &c.	602,769	Apr. 19	2031	460	83	415
Parker, Clarence L., assignor to D. Parker, Silver Creek, N. Y. Carbureter.	609,831	Aug. 30	3081	719	84	1314
Parker, David. (See Parker, Clarence L., assignor.)						
Parker, Eben L. (See Bennett, Hiram H. T., assignor.)						
Parker, Edmund A., Meriden, Conn. Bottle holder and stopper	615,460	Dec. 6	457	107	85	1500
Parker, Edmund A., Meriden, Conn., assignor of one-half to W. I. Henley, New York, N. Y. Bottle-stopper	604,259	May 17	1891	423	83	1016
Parker, Edmund L. (See Gilbert, John C., assignor.)						
Parker, Edward F., Denver, Colo. Ore stamping and crushing mill	602,356	Apr. 12	1326	294	83	267
Parker Engine Company. (See Parker, John C., assignor.)						
Parker, Erastus N., Springfield, Mass. Fastener	604,542	May 24	2433	553	83	1137
Parker, Francis E. (See Morgan and Parker.)						
Parker, George S., Janesville, Wis. Fountain-pen	606,231	June 28	2230	512	83	1830
Parker, Harmon H. (See Gilbert and Parker.)						
Parker, Henry S., Fulton, Ill. Barrel-truck	615,040	Nov. 29	3295	758	85	1315
Parker, Herschel C., et al. (See Reynolds, Frank A., assignor.)						
Parker, Howard, and H. Fairbanks, St. Johnsbury, Vt., assignors to Vacuum Drier Company, of Vermont. Vacuum web-drier	612,931	Oct. 25	2396	570 571	85	503
Parker, James J. (See Dexter and Parker.)						
Parker, James J., New York, assignor to T. C. Dexter, Pearl River, N. Y. Sheet-separating device for paper-feeding machines	615,889	Dec. 13	1203	281	85	1660
Parker, John. (See Burnham and Parker.)						
Parker, John, assignor of one-half to P. H. Morris, Philadelphia, Pa. Bicycle drive-gear	616,349	Dec. 20	2110	492	85	1857
Parker, John C., assignor to Parker Engine Company, San Francisco, Cal. Relief-valve	608,217	Aug. 2	89	23	84	673
Parker, John C., assignor to Parker Engine Company, San Francisco, Cal. Steam-generator	608,218	Aug. 2	91	23	84	673
Parker, John R., Oakland, assignor to Pacific Coast Dredging and Reclamation Company, San Francisco, Cal. Dredging apparatus	601,524	Mar. 29	3383	766 767	82	1945
Parker, Joseph H. (See Browning, George, assignor.)						
Parker, Joseph N., Philadelphia, Pa. Clothes-drier	611,503	Sept. 27	2504	578	84	1974
Parker, Joseph R., London, England. Key-fastener	611,646	Oct. 4	97	23	85	22
Parker, Joseph S. (See Long, William N., assignor.)						
Parker, Mannie B., assignor of one-half to R. J. Morgan, Norman, Okla. Ter. Nut-lock	611,930	Oct. 4	583	141	85	115
Parker, Maynard T., et al. (See Fagg, Benjamin F. B., assignor.)						
Parker, McCluer H., Houston, Tex. Game-carrier	597,016	Jan. 11	979	231	82	206
Parker, Middleton N., Belton, assignor of one-half to J. L. Mitchell, Georgetown, Tex. Land bedder and cultivator	608,901	Aug. 9	1328	310	84	931
Parker, N. Augustus. (See Springsteen, Myron H., assignor.)						
Parker, Philip J., New York, N. Y. Bicycle	611,865	Oct. 4	477	115	85	96
Parker, Russell, Brooklyn, N. Y. Liquid-pistol	600,552	Mar. 15	1715	392	82	1556
Parker, Russell, assignor to Parker, Stearns & Sutton, New York, N. Y. Vaginal tube for syringes	613,391	Nov. 1	318	73	85	677
Parker, Stearns & Sutton. (See Parker, Russell, assignor.)						
Parker, Theron N., assignor of one-half to P. and A. Igoe, Brooklyn, N. Y. Stake for plants, flowers, or trees	604,260	May 17	1892	424	83	1016
Parker, Thomas H., Tettenhall, England. Means for use in operating electrical switches.	598,679	Feb. 8	1052	253 254	82	819
Parker, Wallace O., Norman, Okla. Ter. Adjustable wrench	603,575	May 3	602	134	83	718
Parker, Walter. (See Crandall, Jesse A., assignor.)						
Parker, William T., Philadelphia, Pa. Box-fastener	608,004	July 26	2754	585	84	589
Parker, Willis O., Leach, Ind. Collapsible shipping-crate	602,357	Apr. 12	1328	295	83	267
Parkhurst Brothers & Co. (See Collins, Samuel W., assignor.)						
Parkhurst, Edward B., assignor to J. T. Freeman and H. F. Davis, Woburn, Mass. Leather-dressing machine	604,903	May 31	3056	703	83	1277
Parkhurst, Edward G., Hartford, Conn. Cartridge-pocket	606,021	June 21	1822	420 421	83	1734
Parkhurst, Edward G., Hartford, Conn., assignor to Lee Arms Company, of Connecticut. Magazine bolt-gun	599,287	Feb. 15	2062	490 491	82	1027
Parkhurst, Edward G., Hartford, Conn., assignor to Lee Arms Company, of Connecticut. Safety-lock for bolts and firing-pins	599,288	Feb. 15	2069	491	82	1029
Parkhurst, Edward G., Hartford, Conn., assignor to Lee Arms Company, of Connecticut. Magazine bolt-gun	604,904	May 31	3058	703 704	83	1277
Parkhurst & Wilkinson. (See Cornell, Lewis T., assignor.)						
Parkin, Joseph W., Philadelphia, Pa. Combination gas and electric-light fixture	597,244	Jan. 11	1359	317	82	279
Parkin, Joseph W., Philadelphia, Pa. Ball-bearing pulley	613,712	Nov. 8	871	201	85	802
Parkinson, Edgar H., Bradford, England. Flushing-cistern	605,972	June 21	1725	396	83	1717
Parkinson, John, Los Angeles, Cal. Shutter-operating system	615,194	Nov. 29	3567	821	85	1367
Parkinson, John M., assignor to A. Kent & Sons, Toronto, Canada. Detachable fastener for cuff-links	599,353	Feb. 22	2211	524	82	1077
Parks, Clarence W., Lowell, Mich. Mop-holder	615,410	Dec. 6	370	88	85	1484
Parks, Edwin E., assignor of one-half to F. A. Simonds, Grand Rapids, Mich. Motor for flue scrapers or cleaners	609,588	Aug. 23	2643	618	84	1215
Parks, Fred B., assignor to F. B. Parks Tire Healing Company, Grand Rapids, Mich. Composition for mending tires	612,757	Oct. 18	2070	490	85	420
Parks, James H., assignor of one-fourth to A. Knecht and J. K. Brewster, Jr., Cripple Creek, Colo. Permutation-lock	615,655	Dec. 6	810	188	85	1572
Parks, Levi N., Winchendon, Mass. Spool	597,017	Jan. 11	980	232	82	207
Parks, Lewis F., Cincinnati, Ohio. Bicycle	607,606	July 19	1984	412	84	421
Parks, Robert S., and J. F. Shelley, Scottsborough, Ala. Nut-lock	597,737	Jan. 25	2203	514	82	479
Parks, Samuel R., Central Falls, R. I. Trolley-pole guide-rope	613,713	Nov. 8	872	201 202	85	803
Parks, Thomas W., assignor of one-fourth to W. H. and S. A. Phillips, Paradise, Tex. Car-coupling	600,317	Mar. 8	1281	293	82	1484
Parks & Woolson Machine Company. (See Richardson, Charles E., assignor.)						
Parlin & Orendorff Company. (See Heylman, Edward M., assignor.)						
Parmenter, George A., Cambridge, Mass. Street-car fender	612,785	Oct. 18	2125	505	85	431
Parmenter, George A., and S. H. Peirce, Cambridge, Mass. Track-cleaner for street-railway cars	604,543	May 24	2434	553	83	1137
Parmenter, Orville L., Milwaukee, Wis. Cigar-cell series	598,483	Feb. 1	705	171	82	736
Parmenter, Orville L., Milwaukee, Wis. Cigar-cell series	598,484	Feb. 1	706	171	82	736
Parmenter, Orville L., Racine, Wis. Cigar-cell series	598,485	Feb. 1	708	171 172	82	737
Parmiter, Philip J., Ansty, England. Boot tree or stretcher	608,396	Aug. 2	410	90	84	737
Parmlley, Lemuel D., Waynesborough, Pa., assignor to C. J. Danielson and M. D. Ellingson, Hamlet, Ind. Threshing-machine	606,681	July 5	85	18	84	19



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Parnaland, Ambroise F., Paris, France. Kinetographic camera.....	610,560	Sept. 13	782	178	84	1605
Parnell, Jacob B. (See Selvidge, Charles W., assignor.)						
Paroselli, Raffaele, Jersey City, N. J. Safety device for elevators.....	606,489	June 28	2700	622	83	1924
Parr, Matthew M., Knowlton, Iowa. Educational apparatus for teachers.....	600,234	Mar. 8	1143	261	82	1458
Parrish, John W., Milton, W. Va. Burglar-alarm.....	610,826	Sept. 13	1236	284	84	1698
Parrish, Rob Roy, Independence, Oreg. Nut.....	605,450	June 7	738	167	83	1495
Parrish, Rob Roy, Independence, Oreg. Wrench.....	608,477	Aug. 2	551	123	84	764
Parrott, Elijah D., Goldendale, Wash. Carbureter.....	615,100	Nov. 29	3407	781	85	1335
Parrott, Eugene M. (See McCullough and Parrott.)						
Parry, Hamilton K., Lucas, Ohio. Apparatus for handling fabrics.....	615,890	Dec. 13	1205	282	85	1661
Parry, John H. (See Parry and Evans, assignors.)						
Parry, Robert R., and E. Evans, Poultney, Vt., assignors of one-third to J. H. Parry, } Utica, N. Y. Dish-cleaner.....	604,634	May 24	2588	590 591	83	1168
Parry, Thomas H., Indianapolis, Ind. Upholstering.....	612,174	Oct. 11	1032	248	85	212
Parsell, Orlando W., Flushing, Mich. Weighing-truck.....	606,735	July 5	175	39	84	36
Parsell, Orlando W., Flushing, Mich. Weighing-truck.....	609,902	Aug. 30	3196	749	84	1336
Parsells, William C., Ellenville, N. Y. Valve.....	600,249	Mar. 8	1172	266	82	1463
Parshall, Horace F., London, England. Regulating speed of series electric motors.....	597,018	Jan. 11	981	232	82	207
Parsons, Anson, <i>et al.</i> (See Parsons, Willard T., assignor.)						
Parsons, Charles A., Newcastle-upon-Tyne, England. Marine steam-turbine.....	608,969	Aug. 9	1471	348	84	958
Parsons, Charles A., Newcastle-upon-Tyne, England. Screw fan and pump for propel- } ling air, &c.....	613,775	Nov. 8	988	225 226	85	825
Parsons, E. N. (See Ford, David, assignor.)						
Parsons, Edgar B., Olympus, assignor of one-half to O. P. Shoff, Moorhead, Iowa. Bolt- } holder.....	616,350	Dec. 20	2113	492	85	1858
Parsons, Francis F., Paterson, N. J. Boiler-furnace.....	601,880	Apr. 5	501	103	83	94
Parsons, Fred B., <i>et al.</i> (See Powell, Noah M., assignor.)						
Parsons, George W., Steelton, Pa. Railway-frog.....	611,331	Sept. 27	2171	502	84	1913
Parsons, George W., assignor of one-third to F. S. Rich, Newton, Iowa. Self-feeder for } threshing-machines.....	605,204	June 7	273	63, 64	83	1401
Parsons, Isaac W. (See Yohe and Parsons.)						
Parsons, James W., Wilmington, Del. Railway-gate.....	598,605	Feb. 8	920	221	82	796
Parsons, John G., Columbus, Ohio. Horseshoe.....	615,303	Dec. 6	145	38	85	1441
Parsons, John H., assignor of one-half to C. W. Gooding, A. D. and C. Warner, Jr., Wil- } mington, Del. Rotary engine.....	605,906	June 21	1586	364	83	1692
Parsons, John H., assignor of one-half to C. W. Gooding, A. D. and C. Warner, Jr., Wil- } mington, Del. Rotary engine.....	605,907	June 21	1588	365	83	1693
Parsons, John H., assignor of one-half to C. W. Gooding, A. D. and C. Warner, Jr., Wil- } mington, Del. Rotary engine.....	615,891	Dec. 13	1206	282 283	85	1661
Parsons, Willard P., Hoosick Falls, N. Y. Cash-register.....	601,164	Mar. 22	2721	626 627	82	1790
Parsons, Willard T., assignor of three-fourths to A. Parsons, Springborough, D. W. Tryon, } W. W. White, E. M. Blakeslee, and J. P. Griffith, Spartansburg, Pa. Trace-fastener.....	611,706	Oct. 4	203	48	85	42
Parsons, William A., and W. Rawson, London, England. Stoppered jar, bottle, or other } receptacle.....	609,974	Aug. 30	3337	777	84	1364
Partington, Charles, Newport, Ky., assignor to Weir Frog Company, Cincinnati, Ohio. } Foot-guard for railway-frogs.....	598,486	Feb. 1	711	172	82	737
Partington, Charles, Newport, Ky., assignor to Weir Frog Company, Cincinnati, Ohio. } Gaging jack-frame.....	613,073	Oct. 25	2623	621	85	548
Partridge, Albert J. (See Hobbs, George W., assignor.)						
Partridge, Andrew, Springfield, Mass. Fruit-knife.....	608,267	Aug. 2	167	41	84	688
Partridge, William E. (See Billing, Partridge, and Middleton.)						
Parvillée, Louis, Paris, France. Fabricating metallo-ceramic resistances.....	602,227	Apr. 12	1112	-----	83	224
Pasler, Heinrich. (See Hagemann and Pasler.)						
Pasquier, Eugène P., Paris, France. Roll-holding camera.....	597,857	Jan. 25	2419	564	82	520
Passavant, H. E. (See Wilson, John T., assignor.)						
Pasteur-Chamberland Filter Company. (See Wuichet, Walter G., assignor.)						
Pastime Lawn Mower Company. (See Graham, Simon P., assignor.)						
Pastor, Salvador, Paris, France, assignor to himself, and C. Muston, Algiers, Algeria. } Chain for transmitting motion.....	601,525	Mar. 29	3387	767 255	82	1946
Pastre, Eugène, and F. Lambert, Brooklyn, N. Y. Type-writing machine.....	607,270	July 12	1194	256 257	84	247
Patchel, Robert R., assignor of one-half to C. S. Newcomb, Cambridge, Mass. Tripod- } stand for cameras, &c.....	606,022	June 21	1826	421	83	1734
Patchett, Samuel, Easton, Md. Fastening device.....	605,510	June 14	825	192	83	1532
Patent Button Company. (See Neubert, Franklin G., assignor.)						
Patent Folding Perambulator Company. (See Legge, William, assignor.)						
Patentaktiebolaget Svea. (See Schenson, Elis G. A., assignor.)						
Paterson, Thomas S. (See Main, Jacob F., assignor.)						
Paterson, Thomas W., Victoria, Canada. Spark-catcher.....	601,355	Mar. 29	3097	699	82	1889
Patrick, John, Chicago, Ill. Rubber tire for wheels.....	599,249	Feb. 15	2001	475	82	1015
Patrick, John, Chicago, Ill. Soft-tread horseshoe.....	607,190	July 12	1041	225	84	218
Pattberg, Charles E., New York, N. Y. Means for preventing offset in printing-machines.....	613,045	Oct. 25	2570	610	85	538
Pattberg, Christian, assignor to F. A. Koch, Brooklyn, N. Y. Tonsilotome.....	606,078	June 21	1937	444	83	1755
Pattee, Joseph O. (See Vaughan and Pattee.)						
Patten, Herbert S., Montclair, and W. Maver, Jr., Jersey City, N. J., assignors to them- } selves, and C. L. Heins, New York, N. Y. Joint for electric conductors.....	608,412	Aug. 2	440	97	84	743
Patten, James S., Baltimore, Md. Dust-guard and axle-wiper.....	600,797	Mar. 15	2121	485	82	1662
Patten, James S., Baltimore, Md. Dust-guard for car-axle boxes.....	606,232	June 28	2232	513	83	1831
Patten, James S., Baltimore, Md. Combined car-axle lubricator, dust-guard, and hot- } box indicator.....	607,874	July 26	2506	532	84	538
Patten, Simon R., Omaha, Nebr. Mail-bag catcher and crane.....	616,556	Dec. 27	2505	579	85	1954
Pattenaude, Zenophile. (See Bernardin and Pattenaude.)						
Patterson, Abram A., Wilbur, Wash. Music holder and turner.....	608,707	Aug. 9	969	223	84	866
Patterson, Andrew J. (See Robb and Patterson.)						
Patterson, Andrew W., Aurora, Mo. Ore-separator.....	601,815	Apr. 5	366	76	83	69
Patterson, Charles E., Artesian, S. D. Pole and thill brace.....	612,975	Oct. 25	2463	588	85	517
Patterson Damper Regulator Company. (See Patterson, George F., assignor.)						
Patterson, David R. W. (See Peck and Patterson.)						
Patterson, George F., Baltimore, Md., assignor to Patterson Damper Regulator Com- } pany, of West Virginia. Damper-regulator.....	600,843	Mar. 15	2196	502	82	1677
Patterson, George H., Denver, Colo. Dry mineral separator and concentrator.....	614,574	Nov. 22	2405	549	85	1129
Patterson, Henry N., Humboldt, Nebr. Seed attachment for grain-drills.....	608,073	July 26	2863	612	84	611
Patterson, James A., Clifton, Kans. Lister corn-drill.....	613,525	Nov. 1	560	127	85	722
Patterson, James B., Philadelphia, Pa. Heddle for cross-weaving.....	613,392	Nov. 1	319	73	85	677



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Patterson, James K., Crete, Nebr. Automatic drop for corn-planters .....	600,019	Mar. 1	628	143	82	1333
Patterson, John C., Philadelphia, Pa. Bottle .....	604,193	May 17	1777	{ 400 401	{ 83	996
Patterson, John G. (See Davey, Foriest A., assignor.)						
Patterson, John M. (See Platt, Patterson, and Hammell.)						
Patterson, Lorenzo D., <i>et al.</i> (See Bovee, Manley W., assignor.)						
Patterson, Pressly C. (See Stanley and Patterson.)						
Patterson, Reubin C., Summit, Ga. Axle-bearing for vehicle-wheels .....	602,100	Apr. 12	885	192	83	179
Patterson, Walter F., assignor to himself and R. J. Boyle, Philadelphia, Pa. Puzzle device .....	600,696	Mar. 15	1958	446	82	1631
Pattison, Richard, New York, N. Y. Steam-injector .....	599,473	Feb. 22	2456	578	82	1125
Patton, Edwin B. (See Schmidt, Evert, assignor.)						
Patton, Joseph, Sharpsville, Pa., assignor, by mesne assignments, to J. L. Luse, Cleveland, Ohio, and W. B. Mitcheltree, Riddlesburg, Pa. Water-trap .....	609,747	Aug. 23	2927	684	84	1270
Patton, Oliver C., assignor to W. C. Sydenham, J. B. Boyer, G. A. Olson, J. F. Berry, L. Hynes, C. M. May, P. Collins, Grand Junction, and C. Milligan, Minturn, Colo. Car-coupling .....	614,337	Nov. 15	1975	456	85	1036
Patton, William G., Flat Lick, Ky. Cradle .....	616,351	Dec. 20	2114	492	85	1858
Patzschke, Otto, Verona, Wis. Tool for cutting pipe or tubing .....	613,596	Nov. 1	675	155	85	744
Paul, Andrew G., Boston, Mass. Steam-heating system .....	604,335	May 17	2043	{ 457 458	{ 83	1046
Paul, Herbert M., Herkimer, N. Y. Ceiling-protector .....	598,435	Feb. 1	693	156	82	723
Paul, James R., and J. Kirkwood, Lenox, Mass. Shade for greenhouses .....	597,562	Jan. 18	1903	444	82	405
Paul, N. S. (See Bell, Fred C., assignor.)						
Paul, Samuel F., New York, N. Y. Fastening device .....	613,299	Nov. 1	134	32	85	643
Paulen, Jacob W., assignor of one-half to G. G. Council, Williamsville, Ill. Farm-gate .....	605,063	May 31	3321	762	83	1328
Paulis, John A., St. Louis, Mo. Buggy-top-bow support .....	606,079	June 21	1938	444	83	1755
Paulissen, Joseph P., Kankakee, Ill. Car-coupling .....	608,708	Aug. 9	972	{ 223 224	{ 84	866
Paulitschke, Wilhelm, Moedling, Austria-Hungary. Excavating-machine .....	598,680	Feb. 8	1055	{ 254 255	{ 82	819
Paulson, Andrew, Snake, Minn. Grapple for lifting logs .....	607,571	July 19	1924	398	84	410
Pavyer, James G., St. Louis, Mo. Apparatus for casting type .....	604,635	May 24	2591	{ 591 592	{ 83	1168
Paxton, Elmer E., Honolulu, Hawaii. Copy-holder .....	598,809	Feb. 8	1254	303	82	857
Payette, Joseph, Worcester, Mass. Ash-sifter .....	603,704	May 10	837	185	83	780
Payette, Louis, Paterson, N. J. Combined baby-carriage and cradle .....	615,892	Dec. 13	1209	283	85	1661
Payment, Francois X., and J. C. Hartig, Chicago, Ill. Window-frame .....	605,335	June 7	522	117	83	1452
Payne, David W., <i>et al.</i> (See Gallagher, John C., assignor.)						
Payne, George F. (See Gharky, William D., assignor.)						
Payne, George F., Philadelphia, Pa. Telephone .....	600,990	Mar. 22	2443	558	82	1736
Payne, George F., and W. D. Gharky, Philadelphia, Pa.; said Gharky assignor to said Payne. Telephone-transmitter .....	600,991	Mar. 22	2446	558	82	1737
Payne, J. A. (See Eaton, Enoch H., assignor.)						
Payne, Joseph T., Sweet Springs, Mo. Safety-pin .....	601,981	Apr. 5	690	146	83	131
Payne, Lewis A., assignor of one-half to M. V. Davis, San José, Cal. Bicycle pump attachment .....	606,023	June 21	1828	421	83	1734
Payne, Robert M., Winchester, Tenn. Railway-crossing signal .....	613,597	Nov. 1	677	156	85	745
Payne, William J. (See Hanes, Erastus W., assignor.)						
Paynter, John P., Topeka, Kans. Mining-drill and channel-cutter .....	597,589	Jan. 18	1955	{ 454 455	{ 82	414
Payssé, Louis, and W. P. Carey, New Orleans, La. Mosquito-bar attachment .....	600,167	Mar. 8	1041	234	82	1438
Peach, Barbara M., Laurium, Mich. Device for suspending or holding skirts, &c. ....	598,573	Feb. 8	870	208	82	786
Peacock, Belford. (See Langley, Thomas F., assignor.)						
Peacock, Edward M., assignor to Iron Clad Manufacturing Company, New York, N. Y. Closure for milk-cans .....	610,720	Sept. 13	1039	240	84	1659
Peacock, Robert H., Columbus, Ga. Reflector for combined speaking-tubes and elevators .....	599,010	Feb. 15	1605	381	82	941
Peacock, Walter C. (See Stockton, George, assignor.)						
Peacock, William F. (See Manning, Charles J., assignor.)						
Peak, Leo D. (See Brown and Peak.)						
Peak, Leo D., <i>et al.</i> (See Brown, James M., assignor.)						
Peak, Robert H., Orlando, Fla. Producing magnetic oxid of iron .....	607,875	July 26	2509	-----	84	539
Peak, William A., <i>et al.</i> (See Brown, James M., assignor.)						
Peale, Augustin R., Philadelphia, Pa. Stove or range .....	616,726	Dec. 27	2838	657	85	2018
Pearce, Daniel H., and L. Arbaugh, Arbaugh, Ohio. Fruit-gatherer .....	606,682	July 5	86	18	84	20
Pearce, Fannie. (See Pearce, Herbert E., assignor.)						
Pearce, Herbert. (See Lewis, Pearce, and Holliwell.)						
Pearce, Herbert E., assignor to F. Pearce, Brooklyn, N. Y. Insulating-connector .....	600,336	Mar. 8	1315	301	82	1490
Pearce, William, assignor of two-thirds to M. N. Woodruff and N. A. Barnes, Southington, Conn. Thill-coupling .....	611,140	Sept. 20	1803	415	84	1823
Pearce, William, and G. Walker, assignors of one-half to M. N. Woodruff, and N. A. Barnes, Southington, Conn. Nail-puller .....	616,803	Dec. 27	2960	690	85	2043
Pearce, William J., assignor of one-half to J. A. Hurth, Clinton, Ind. Rotary engine .....	606,080	June 21	1939	{ 444 445	{ 83	1755
Pearl, Azariah Y., Lebanon, Me. Auger .....	606,575	June 28	2862	660	83	1957
Pearl, Eugene, New York, N. Y. Fitting attachment for corsets .....	609,044	Aug. 16	1641	391	84	1005
Pearl, William, Fairport, Mo. Automatic vehicle-brake .....	610,827	Sept. 13	1237	285	84	1699
Pearne, Benjamin M., Oxford, N. Y. Knife-scourer .....	613,300	Nov. 1	137	32	85	643
Pearsol, Charles F. (See Ellsworth, Frank, assignor.)						
Pearson, Anna. (See Pearson, Swain, assignor.)						
Pearson, Charles W. (See Spurrier, Harry, assignor.)						
Pearson, Edward F. H., <i>et al.</i> (See Kinney, Israel, assignor.)						
Pearson, Edward T. (See Klever, Friedrich W., assignor.)						
Pearson, Fred S., Boston, Mass. Conduit for railways .....	603,656	May 10	759	169	83	764
Pearson, Fred S., Boston, Mass. Collector for electric railways .....	610,241	Sept. 6	185	41	84	1478
Pearson, Fred S., Boston, Mass. Yoke for railway-conduits .....	613,301	Nov. 1	138	32	85	644
Pearson, Fred S., Boston, Mass. Mechanism for street-cars .....	616,585	Dec. 27	2548	589	85	1960
Pearson, Isaac N., Gas City, Ind. Glass-finishing machine .....	611,042	Sept. 20	1610	369	84	1786
Pearson, James W., assignor of one-half to W. J. Wood, London, England. Trawl-net .....	611,931	Oct. 4	584	141	85	115
Pearson, John A., and H. F. Huston, Philadelphia, Pa. Stamp and envelop moistener and sealer .....	601,526	Mar. 29	3388	767	82	1946
Pearson, John R. (See Rosander and Pearson.)						
Pearson, Robert P., Gloucester City, N. J., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom-temple .....	598,810	Feb. 8	1256	304	82	858
Pearson, Swain, assignor of one-half to W. W. Harris, Rock Island, Ill. Neck-yoke attachment .....	609,699	Aug. 23	2857	668	84	1256



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Pearson, Swain, assignor to A. Pearson, Rock Island, Ill. Neck-yoke center .....	616,065	Dec. 13	1543	{ 360 361	{ 85	1727
Pearson, Walter B., Chicago, Ill. Drilling and facing machine .....	613,225	Oct. 25	2888	681	85	600
Pearson, Walter B., Chicago, Ill. Forming and drilling machine .....	613,598	Nov. 1	679	{ 156 157	{ 85	745
Pearson, Walter G., Newburyport, Mass. Feed-mixer .....	603,537	May 3	550	121	83	706
Pearsons, Fillmore A., assignor to Howe Scale Company, Rutland, Vt. Scale-beam .....	613,526	Nov. 1	562	127	85	722
Pease, Calvin A., Springfield, Ill. Sash-fastener and door-lock .....	612,671	Oct. 18	1919	454	85	391
Pease, Edward L., Darlington, England. Portable house .....	602,194	Apr. 12	1058	{ 231 232	{ 83	213
Pease, Edward L., Hurworth-on-Tees, England. Structural arrangement for combining strength with rigidity for roofing or flooring .....	613,599	Nov. 1	683	{ 157 158	{ 85	746
Pease, Edward L., Hurworth Moor, England. Construction of fireproof flooring, &c. ....	614,754	Nov. 22	2736	{ 624 625	{ 85	1191
Pease, Edward L., Hurworth-upon-Tees, England. Construction of floors or similar structures .....	615,634	Dec. 6	770	{ 178 179	{ 85	1564
Pease, George R., Jamestown, N. Y. Wall-book .....	606,233	June 28	2234	513	83	1831
Pease, Jules C., Northeast Carry, Me. Ice-velocipede .....	608,622	Aug. 9	809	187	84	834
Pease, Roger S., Rose, assignor, by mesne assignments, of one-half to J. U. Miner, Minneapolis, Minn. Apparatus for controlling temperature .....	604,077	May 17	1564	350	83	953
Pease, William H., Niobrara, Nebr. Revolving centerpiece for dining-tables .....	611,739	Oct. 4	262	63	85	54
Peate, Alfred M., and H. M. Koosch, Milwaukee, Wis. Bicycle attachment .....	597,527	Jan. 18	1851	429	82	394
Peck, Arthur E., Minneapolis, Minn. Bicycle-saddle .....	599,729	Mar. 1	89	21	82	1233
Peck, Arthur E., Minneapolis, Minn. Bicycle-saddle .....	615,223	Nov. 29	3664	840	85	1386
Peck, Arthur E., and C. G. Hawley, Minneapolis, Minn.; said Hawley assignor to said Peck. Bicycle-seat .....	603,734	May 10	885	197	83	789
Peck, Frank F., Susanville, Cal. Mucilage-holder .....	598,388	Feb. 1	541	132	82	705
Peck, Frank S. (See Dake, Shepard, and Peck.) .....						
Peck, Homer P. K., Tenaflly, N. J. Smoke-consuming furnace .....	600,649	Mar. 15	1861	426	82	1613
Peck, Ira F., Auburn, R. I. Machine for setting heel and sole protectors for boots or shoes .....	607,001	July 5	650	141	84	129
Peck, Jacob P., Sharon, Tenn. Nut-lock .....	597,324	Jan. 11	1490	348	82	307
Peck, Judson R., Naples, N. Y. Wire fence .....	609,945	Aug. 30	3274	764	84	1352
Peck, Laura A., Geneva, N. Y. Blackboard-cleaner .....	602,266	Apr. 12	1174	258	83	287
Peck, Orson G., Yates, Mich. Saw-handle .....	598,293	Feb. 1	401	95	82	677
Peck, William A., Chicopee, assignor to O. W. Bullock, Springfield, Mass. Machine for drilling eyeglass-lenses .....	596,537	Jan. 4	133	30	82	28
Peck, William H., and D. R. W. Patterson, Pittsburg, Pa. Powdered-coal furnace .....	613,937	Nov. 8	1256	{ 285 286	{ 85	876
Peckham, Edgar, New York, N. Y. Car-truck .....	599,474	Feb. 22	2458	578	82	1125
Peckham, Edgar, New York, N. Y. Car-truck .....	604,784	May 31	2858	{ 653 654	{ 83	1238
Peckham, Edgar, New York, N. Y. Car-truck .....	606,296	July 5	528	116	84	105
Peckham, Edgar, New York, N. Y. Motor-truck .....	606,979	July 5	595	130	84	118
Peckham, Harry G. (See Gill, John, assignor.) .....						
Peckham Motor Truck and Wheel Company. (See Uebelacker, Charles F., assignor.) ..	608,902	Aug. 9	1330	310	84	932
Pedersen, Fred, Childress, Tex. Tool-handle .....	606,296	June 28	2349	543	83	1855
Pedersen, Henry, New York, N. Y. Window-sash .....	613,393	Nov. 1	321	74	85	678
Pedersen, Johannes T., New York, N. Y. Driving mechanism for cycles .....	614,755	Nov. 22	2738	625	85	1192
Pedersen, Oliver, Nashua, N. H. Musical instrument .....	596,614	Jan. 4	276	60, 61	82	55
Pederson, Petter C. N., West Superior, Wis. Fluid-pressure motor .....	609,625	Aug. 23	2731	636	84	1232
Pederson, Petter C. N., West Superior, Wis. Fluid-pressure motor .....	609,626	Aug. 23	2735	637	84	1232
Pedriani, Joseph, Brussels, Belgium. Electrical connector .....	611,707	Oct. 4	204	48	85	42
Peebles, Charles E. (See Boland, John, assignor.) .....						
Peebles, Samuel E., assignor of one-half to A. M. Preston, Cullman, Ala. Insect-exterminator .....	597,509	Jan. 18	1827	423	82	389
Peed, Oliver H., Nickerson, Kans. Gate-hinge .....	606,896	July 5	473	{ 101 102	{ 84	94
Peek, Frean & Co. (See Carr, Ellis, assignor.) .....						
Peel, Howell W., et al. (See Poetz, John C., assignor.) .....						
Peellaert, Louis, Antwerp, Belgium. Fire-bar for boiler or other furnaces .....	615,041	Nov. 29	3296	758	85	1315
Peeples, George, Philadelphia, Pa. Insulated pipe-coupling .....	602,564	Apr. 19	1675	381	83	347
Peerless Fountain Cuspidor Company. (See Johnson, George E., assignor.) .....						
Peerless Rubber Manufacturing Company. (See Meany, Richard B., assignor.) .....						
Peers, Kester J., Boston, Mass. Hat or bonnet pin guide and protector .....	608,219	Aug. 2	92	24	84	673
Pehl, Edmond, and E. J. Markel, Hartford, Conn. Apparatus for ascertaining temperature of vaults .....	611,866	Oct. 4	478	116	85	96
Pehl, Wilhelm. (See Schleidt and Pehl.) .....						
Peipers, Emil, Siegen, Germany. Mold-chill .....	609,460	Aug. 23	2413	566	84	1172
Peirce, A. H. (See Nelson, Charles O., assignor.) .....						
Peirce, A. H. (See Nelson, Charles O., assignor.) (Reissue.) .....						
Peirce, Arthur H., Chicago, Ill. Car-seal .....	615,461	Dec. 6	458	108	85	1500
Peirce, Mary E., et al. (See Crisp, Joseph E., assignor.) .....						
Peirce, Stephen H. (See Parmenter and Peirce.) .....						
Peirson, Martin, Bristol, Conn. Watchcase .....	601,982	Apr. 5	691	147	83	131
Pelan, Frank, Sioux City, Iowa. Shade-roller support .....	610,411	Sept. 6	516	113	84	1538
Pell, Harry S., Toronto, Canada. Pulley .....	605,557	June 14	899	209	83	1546
Pell, Harry S., Akron, Ohio, assignor to Stirling Company, Chicago, Ill. Water-tube boiler .....	597,151	Jan. 11	1212	{ 284 285	{ 82	252
Pell, Harry S., Akron, Ohio, assignor to Stirling Company, Chicago, Ill. Water-tube boiler .....	597,152	Jan. 11	1214	285	82	252
Pell, Henry K. and H. W., Rome, N. Y. Wagon-spring .....	603,028	Apr. 26	2492	565	83	517
Pell, Henry W. (See Pell, Henry K. and H. W.) .....						
Pelletier, Jules H., New York, N. Y. Stove-polish .....	615,042	Nov. 29	3297	759	85	1315
Pelouze, William N., Chicago, Ill. Weighing-scale .....	601,273	Mar. 29	2957	669	82	1863
Peltier, Joseph, assignor of one-half to F. X. Gravel, Lowell, Mass. Attachment for looms ..	615,635	Dec. 6	772	179	85	1565
Pelton, George M., Belmont, N. Y. Roll .....	615,411	Dec. 6	371	88	85	1485
Pelton, George W., Muscatine, Iowa. Domestic press .....	608,268	Aug. 2	168	41	84	688
Penberthy Injector Company. (See Downes, William A., assignor.) .....						
Pencille, John W., Jamestown, N. Y. Rubbing-machine .....	609,832	Aug. 30	3083	719	84	1314
Pender, John, Brunswick, Victoria. Motor-carriage .....	601,274	Mar. 29	2959	{ 669 670	{ 82	1863
Pendergast, John, Chicago, Ill. Waist-belt .....	608,903	Aug. 9	1331	311	84	932
Pendergast, Maurice D., assignor of one-fourth to W. W. Sivright, Hutchinson, Minn. Wire fence .....	596,538	Jan. 4	135	30, 31	82	28



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Pendleton, Andrew F., Franklin, Mass. Life-boat	611,021	Sept. 20	1581	362	84	1781
Pendleton, Gurdon, Jr., assignor to Pendleton Manufacturing Company, Carbondale, Pa. Bobbin	602,240	Apr. 12	1130	248	83	227
Pendleton, Gurdon, Jr., assignor to Pendleton Manufacturing Company, Carbondale, Pa. Bobbin	602,241	Apr. 12	1131	248	83	227
Pendleton Manufacturing Company. (See Klots, Henry D., assignor.)						
Pendleton Manufacturing Company. (See Pendleton, Gurdon, Jr., assignor.)						
Pendley, William T., and C. C. Fincher, Milan, Ga. Nut-lock	610,878	Sept. 13	1328	304	84	1718
Pendry, William A., Detroit, Mich. Button-blank-cutting machine	601,675	Apr. 5	88	18	83	18
Penfield, William A., assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Wick-lifting device	605,186	June 7	230	56	83	1394
Péniakoff, Dmitry A., Selzaete, Belgium. Making alkaline aluminates	603,657	May 10	761		83	765
Péniakoff, Dmitry A., Huy, Belgium. Aluminium sulfid and making same	606,576	June 28	2867		83	1958
Penn, A. J., <i>et al.</i> (See Johnck, John, assignor.)						
Penn, George W. and George W., Jr., assignors of three-fifths to J. S. Whiteley and C. H. Brown, Jr., Baltimore, Md. Car	612,053	Oct. 11	826	202	85	172
Penn, William E., assignor to F. B. Fargo & Company, Lake Mills, Wis. Milk measuring and discharging machine	604,261	May 17	1893	424 425	83	1017
Penn, William E., and C. S. Brown, assignors to F. B. Fargo & Company, Lake Mills, Wis. Combined churn and butter-worker	600,168	Mar. 8	1043	234 235	82	1438
Penn, William E., and C. S. Brown, assignors to F. B. Fargo & Company, Lake Mills, Wis. Churn and butter-worker	604,262	May 17	1903	425 426	83	1019
Penner, William F., Richardsville, Ky. Metallic cross-tie	606,577	June 28	2868	660	83	1958
Pennie, Henry, New York, N. Y. Sewer-trap	616,252	Dec. 20	1934	448	85	1822
Pennington, Jerry, Vernon, Ala. Combined plow and seed-planter	600,291	Mar. 8	1243	283	82	1477
Pennington, John A., Pitcairn, Pa. Nut-lock	609,521	Aug. 23	2524	590	84	1193
Pennington, John C., Paterson, N. J. Sterilizing fruit-juices	596,909	Jan. 4	784	185	82	153
Pennington, Thomas J., Rockford, Ala. Tomb	614,022	Nov. 8	1391	319	85	905
Pennsylvania Globe Gas Light Company. (See Prendergast, Daniel J., assignor.)						
Pennsylvania Globe Gas Light Company. (See Shaw and Lees, assignors.)						
Pennsylvania Globe Gas Light Company. (See Slinack, Victor H., assignor.)						
Pennsylvania Globe Gas Light Company. (See Wilson, Thomas, assignor.)						
Pennsylvania Iron Works Company. (See Grist, Benjamin W., assignor.)						
Pennsylvania Salt Manufacturing Company. (See Reese, William S., assignor.)						
Pennsylvania Salt Manufacturing Company. (See Reese and Armstrong, assignors.)						
Penprase, Albert R., assignor to B. G. and J. F. Segog and B. D. Brown, Duluth, Minn. Separator	612,650	Oct. 18	1881	446	85	384
Penrose, George A. and T. F., Meredith, Ark. Railway-switch	615,101	Nov. 29	3410	782	85	1336
Penrose, George A. and T. F., assignors of one-third to W. R. Ware, Meredith, Ark. Jack	615,102	Nov. 29	3411	782	85	1336
Penrose, Thomas F. (See Penrose, George A. and T. F.)						
Peoples, William, assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Clamp for securing pumps to barrels	604,263	May 17	1906	426	83	1020
Pepin, Hector, Victor, Colo. Dump for ore-buckets	601,903	Apr. 5	540	111	83	102
Peraglie, Martino, and F. Barro, New York, N. Y. Soap-holder	606,024	June 21	1830	422	83	1735
Percival, William H., assignor of one-half to L. P. Ford, London, England. Folding bicycle	598,811	Feb. 8	1257	304 305	82	858
Percy, George, Sydney, New South Wales, assignor of one-half to H. Dearsley, of New Zealand. Bulletin-board	597,688	Jan. 18	2119	495	82	445
Perdue, Edward M. (See Killion and Perdue.)						
Perez, Michael, New York, N. Y. Corset-buttoner	598,743	Feb. 8	1159	278	82	839
Perfection Labeling Machine Company. (See Blaisdell, James M., assignor.)						
Perfler, Joseph, and A. Schneider, assignors of one-third to L. Fink, Columbus, Ohio. Computing-machine	613,395	Nov. 1	323	74 75 76	85	678
Périchon, Jean, Rodah, Egypt. Diffusion-battery	615,893	Dec. 13	1211	283 284	85	1662
Perine, Aaron B., Topeka, Kans., assignor of one-half to C. T. Russell, Allegheny, Pa. Device for converting reciprocatory into rotary motion	611,932	Oct. 4	586	141	85	115
Perkey, Henry D., Worcester, Mass. Game apparatus	611,504	Sept. 27	2506	578	84	1974
Perkins, Charles W. (See White, Perry G., assignor.)						
Perkins, Frank C., and J. D. Killip, Buffalo, N. Y.; said Killip assignor to said Perkins. Automatic electric switch	598,715	Feb. 8	1116	269	82	831
Perkins, Gaius W., <i>et al.</i> (See Linn, Allen B., assignor.)						
Perkins, George C., Detroit, Mich. Refrigerator	598,006	Jan. 25	2677	624	82	569
Perkins, George E., assignor of one-fourth to O. Maloney and P. D. Ransom, Atkinson, Ill. Mail-bag catcher and deliverer	614,756	Nov. 22	2740	625 626	85	1192
Perkins, Hazen H., Kewanee, Ill. Husking-pin	598,744	Feb. 8	1160	278	82	839
Perkins, James C., Inwood, Iowa. Roller attachment for sleighs	608,904	Aug. 9	1332	311	84	933
Perkins, James T., assignor of two-thirds to W. J. Edwards, Union City, and J. A. Perkins, Nashville, Tenn. Air-brake coupling	598,887	Feb. 8	1383	333	82	883
Perkins, James T., assignor of two-thirds to W. J. Edwards and J. A. Perkins, Union City, Tenn. Pipe-coupling	600,444	Mar. 8	1489	340	82	1522
Perkins, John A., <i>et al.</i> (See Perkins, James T., assignor.)						
Perkins, John L., Sabetha, Kans. Buckle	614,179	Nov. 15	1664	363	85	978
Perkins, John W., Boston, Mass. Fishing-rod	610,880	Sept. 13	1330	305	84	1719
Perkins, Montague E., Bristol, Conn. Bag-holder	609,589	Aug. 23	2644	618	84	1215
Perkins, N. S. (See Keyes, James A., assignor.)						
Perkins, Walter H., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Pump-nipple	596,787	Jan. 4	588	136	82	113
Perkins, Walter H., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Repair-tool for bicycle-tires	597,563	Jan. 18	1905	444	82	405
Perkins, William C., Rocky Hill Station, Ky. Nut-lock	599,250	Feb. 15	2001	475	82	1015
Perkins, William C., Rocky Hill Station, Ky. Car-coupling	602,359	Apr. 12	1330	295 296	83	268
Perkins, William C., Rocky Hill Station, Ky. Car-coupling	602,914	Apr. 26	2297	523 524	83	480
Perkins, Willis J., Grand Rapids, Mich. Construction of intermeshing teeth	598,436	Feb. 1	634	156	82	724
Perkins, Willis J., Grand Rapids, Mich. Screw-propeller	606,297	June 28	2352	544	83	1856
Perks, Albert J., Springfield, Ohio. Crank and axle for bicycles	614,757	Nov. 22	2744	626	85	1193
Perks, Archibald F., Port Hope, Canada, assignor of one-half to W. R. Sullivan, Alma, Mich. Gold-separating machine	603,794	May 10	995	223	83	810
Perky, Henry D., Worcester, Mass. Roll reducing-machine for preparing food	598,745	Feb. 8	1162	279	82	840
Perky, Henry D., Worcester, Mass. Machine for reducing cereal food products to form for use	614,338	Nov. 15	1977	456 457	85	1036
Perl, Jacques, Berlin, Germany. Producing platinum gas-lighting pellets	615,363	Dec. 6	262		85	1465



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Perley, Moses P. (See Leach, Hiram S., assignor.)						
Perley, William H., Lynn, Mass., assignor to International Smoke Consumer Company, of West Virginia. Smoke-consumer attachment for furnaces	616,727	Dec. 27	2839	657	85	2018
Permento, Anthony W., San Francisco, Cal. Brush-handle scraper attachment	538,349	Feb. 1	479	115	82	692
Perren, William, <i>et al.</i> (See Drawe, Jennie, assignor.)						
Perret, Pierre, Lyons, France. Apparatus for clearing threads or yarns of silk, &c	616,137	Dec. 20	1710	397	85	1775
Perrier, Charles M., Brockton, Mass. Door-fastener	612,528	Oct. 18	1639	391	85	339
Perrin, Emilien. (See Fenley, Frank, assignor.)						
Perrin, Summerfield M., assignor of three-fourths to W. J. Keenan, Columbia, S. C. Baling-press	609,293	Aug. 16	2114	501 502	84	1095
Perrin, Thomas, Sedalia, Mo. Meal and flour bin	609,903	Aug. 30	3198	750	84	1337
Perrin, William H., assignor of one-half to J. R. Lavell, Smith's Falls, Canada. Sulky-plow	605,298	June 7	463	104	83	1440
Perrins, Harry, Smethwick, England. Manufacture of metallic tubes	614,023	Nov. 8	1392	319 320	85	905
Perrins, Thomas A., Ansonia, Conn. Eyelet-punching machine	600,020	Mar. 1	629	143	82	1333
Perroté, Eugène, Sandwich, Mass. Frying-pan and lifter	603,857	May 10	1125	253	83	835
Perrott, John, Jr. (See Fulcher, William H., assignor.)						
Perrottet, Marie L., New York, N. Y. Corset-shield	605,299	June 7	464	104	83	1440
Perrottet, Marie L., New York, N. Y. Dish-drainer	605,336	June 7	524	117	83	1453
Perry, Allie C. (See Cobb, Norman P., assignor.)						
Perry, Charlie E., El Reno, Okla. Ter. Artery-clamp	597,913	Jan. 25	2508	587	82	536
Perry, Earle C., assignor to Indiana Manufacturing Company, Jeffersonville, Ind. Waf- fle-iron	602,101	Apr. 12	887	192	83	179
Perry, Ebenezer S., New Bedford, Mass. Car-ventilator	597,019	Jan. 11	982	232	82	207
Perry, Frederick A., East Liverpool, Ohio. Automatic car-brake	608,429	Aug. 2	472	106	84	749
Perry, Howard B., Wakefield, R. I. Nut-lock	611,022	Sept. 20	1582	363	84	1781
Perry, James L., assignor to Universal Sander Company, Chicago, Ill. Sandpapering- machine for bent work	610,201	Sept. 6	88	18, 19	84	1457
Perry, Joel C., South River, N. J. Water-faucet	606,025	June 21	1831	422	83	1735
Perry, John F., Chicago, Ill. Bottle-stopper	605,908	June 21	1589	365	83	1693
Perry, John T. (See Pillatt, Andrew, assignor.)						
Perry, Judson D., Elm, Mich. Potato-digger	598,389	Feb. 1	542	132	82	705
Perry, Levi B., and J. C. Mitchell, assignors of three-twentieths to H. E. Chase, Lewi- ston, Me. Fifth-wheel for railway-cars	605,205	June 7	276	61	83	1402
Perry, Nathaniel V., Falls Church, Va., assignor to N. V. Perry Manufacturing Company, Hartford, Conn. Metal-working machine	603,994	May 10	1355	309	83	880
Perry, Timothy B., assignor of one-half to W. R. Denton, West, Tex. Hand-planter	612,270	Oct. 11	1204	288	85	244
Perry, William H., Hamilton, Canada. Game-board	602,358	Apr. 12	1329	295	83	267
Perselle, René, Hoboken, N. J. Hat-fastener	614,308	Nov. 15	1913	441	85	1024
Pershing, John F. (See Dunderdale, Cleaveland F., assignor.)						
Person, Nels, Garner, Iowa. Truss	610,202	Sept. 6	92	19	84	1458
Person, Paul, Stockton, Cal. Bicycle-support	606,578	June 28	2869	660	83	1958
Persons, Maria A., Plum City, Wis. Folding work-receiver for an attachment for sew- ing-machines	612,786	Oct. 18	2127	505	85	431
Perthold, Andrew, New York, N. Y. Bottle-washing apparatus	614,236	Nov. 15	1796	415	85	1001
Pertwee, Frederick. (See Harris, William G., assignor.)						
Pertz, John W. (See Hamm and Pertz.)						
Pervilhac, Henry, Lyons, France. Plaiting-machine	604,839	May 31	2947	674	83	1255
Pesant, Alfonso, Brooklyn, N. Y. Cane-crushing apparatus	600,823	Mar. 15	2158	493	82	1669
Pesant, Alfonso, Brooklyn, N. Y. Crushing-roll	606,234	June 28	2235	513	83	1831
Pescetto, Federico, Turin, Italy. Electric accumulator	614,339	Nov. 15	1978		85	1036
Peter Henderson & Company. (See Seymour, James M., Jr., assignor.)						
Petereit, Albert H., New York, N. Y. Burner for incandescent gas-lights	599,915	Mar. 1	458	102 103	82	1300
Peterfish, Millard F., Staunton, Va. Collapsible egg-crate	602,627	Apr. 19	1790	408	83	368
Peterman, John W., Banta, Cal. Railway-rail	614,976	Nov. 29	3170	728	85	1293
Peters Cartridge Company. (See Peters, Gershom M., assignor.)						
Peters Cartridge Company. (See Place, William B., assignor.)						
Peters, Cornelis, Nymwegen, assignor of two-thirds to W. Schoondermark, Waspik, and J. A. Schoondermark, Leeuwarden, Netherlands. Device for preventing railway accidents	610,828	Sept. 13	1239	285	84	1699
Peters, Edward H. (See Gropley and Peters.)						
Peters, Edwin R. (See Peters, George B. and E. R.)						
Peters, Elma. (See Peters, Frank H., assignor.)						
Peters, Frank H., assignor, by mesne assignments, of one-half to E. Peters, Montreal, Canada. Sash-fastener	609,904	Aug. 30	3199	750	84	1337
Peters, George B. and E. R., Emporia, Kans. Calculating-machine	605,909	June 21	1590	365 366 367	83	1693
Peters, Gershom M., assignor to Peters Cartridge Company, Cincinnati, Ohio. Wad- placing mechanism for cartridge-machines	605,258	June 7	383	87, 88	83	1424
Peters, Harry V., <i>et al.</i> (See Sultemeyer, Carl F., assignor.)						
Peters, Henry, Baltimore, Md. Wagon	616,253	Dec. 20	1935	448	85	1822
Peters, John P., Philadelphia, Pa. Decorative attachment for wheels	607,703	July 19	2160	454	84	454
Peters, Joseph A. (See Hammond, Lorenzo T., assignor.)						
Peters, Lizzie J. (See Newsom, Charles S., assignor.)						
Peters, Perlai W., Washington, D. C. Combined horse-detacher and wheel-lock	607,547	July 19	1878	390	84	403
Peters, William C., Cleveland, Ohio. Life-boat	613,074	Oct. 25	2625	621	85	549
Peters, William F. (See Hunter and Peters.)						
Petersen, Edward A. C., Chicago, Ill. Baker's oven	601,586	Mar. 29	3474	792	82	1964
Petersen, Emil B., Kearny, N. J. Heat or cold indicator	605,129	June 7	104	27	83	1371
Petersen, Gert H., Christiania, Norway. Fire-escape	598,110	Feb. 1	70	16	82	616
Peterson, Adolphus, Lansdowne, Pa. Pattern-exhibitor	606,235	June 28	2236	514	83	1831
Peterson, Adolphus, Lansdowne, Pa. Automatic myrioscope	606,236	June 28	2237	514	83	1832
Peterson, Adolphus, Lansdowne, Pa. Panoramic myrioscope	607,073	July 12	819	179	84	178
Peterson, Adolphus, Lansdowne, Pa. Panoramic myrioscope	607,074	July 12	821	179	84	179
Peterson, Anton, Racine, Wis. Furniture-joint	611,933	Oct. 4	587	142	85	115
Peterson, Augustus O., assignor of one-half to F. Peterson, Galesburg, Ill. Harrow-tooth clamp	612,992	Oct. 25	2489	593	85	522
Peterson, Chris T. (See Davis and Eggleston, assignors.)						
Peterson, Emanuel, Everett, Mass. Attachment for pianos	614,340	Nov. 15	1979	457	85	1037
Peterson, Emmet L., Willacoochee, Ga. Covering for cotton-gin rollers	615,103	Nov. 29	3412	782	85	1336
Peterson, Emmett L., Willacoochee, Ga. Vehicle-axle	616,686	Dec. 27	2756	640	85	2001
Peterson, Fred. (See Peterson, Augustus O., assignor.)						
Peterson, George, Browning, Mont. Irrigating-machine	611,505	Sept. 27	2507	578 579	84	1975



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Peterson, George M., deceased; M. A. Peterson, Salem, Oreg., administratrix. Fruit-grader	610,458	Sept. 6	591	132	84	1552
Peterson, George W., Leonardville, Kans. Sectional door for grain-cars	597,087	Jan. 11	1115	262	82	234
Peterson, Gustaf, assignor of one-third to J. A. Schultz, Cambridge, Mass. Bicycle	614,409	Nov. 15	2115	486	85	1062
Peterson, John, St. Peter, Minn. Mañure gatherer and loader	610,609	Sept. 13	862	197 198	84	1622
Peterson, Jesse, assignor to United Indurated Fibre Company, Lockport, N. Y. Baking-varnish	604,785	May 31	2861	-----	83	1239
Peterson, John E., Washington, D. C. Remedial appliance	602,228	Apr. 12	1113	244	83	224
Peterson, John G., New Britain, Conn. Striking mechanism for bells	603,046	Apr. 26	2516	570	83	522
Peterson, Lewis, Madrid, Iowa. Seedbox for planters	612,867	Oct. 25	2294	547	85	482
Peterson, Martha A., administratrix. (See Peterson, George M.)						
Peterson, Otto, <i>et al.</i> (See Gannoe, Thomas A., assignor.)						
Peterson, Peter, Menominee, Mich. Lumber-piler	609,120	Aug. 16	1792	427	84	1031
Peterson, Peter, Reels, Iowa. Gate	609,700	Aug. 23	2859	668 669	84	1256
Peterson, S. Gust, <i>et al.</i> (See Larson and Branzell, assignors.)						
Peterson, Sven A., New York, N. Y. Floor-planing machine	599,531	Feb. 22	2556	600	82	1145
Petgen, Mary A., Pittsburg, Pa. Skirt-guide	599,573	Feb. 22	2640	618	82	1161
Petit, William A., and E. H. Miller, Stephensport, Ky. Lock	602,518	Apr. 19	1604	367	83	335
Petitdidier, Louis M. (See Sowers, Vail, and Petitdidier.)						
Pétorin, Georges L. E., San Francisco, Cal. Lock	605,337	June 7	525	118	83	1453
Petraeus, Carl V. (See Bartlett and Petraeus.)						
Petraeus, Carl V., assignor to O. H. Picher, Joplin, Mo. Lead pigment and manufacturing same	611,388	Sept. 27	2297	531	84	1935
Petraeus, Carl V., assignor to O. H. Picher, Joplin, Mo. Lead pigment and manufacturing same	611,389	Sept. 27	2299	-----	84	1935
Petri, Peter, Peoria, Ill. Washing-machine	603,921	May 10	1236	280	83	886
Petry, Nicholas, Rockport, Mo. Foot-rest	614,666	Nov. 22	2583	587	85	1160
Pett, Frank S., Dover, assignor of one-half to W. Hunter, London, England. Transporting apparatus	615,043	Nov. 29	3298	758 759	85	1315
Pettee, William E., Boston, Mass. Bottle-labeling machine	597,858	Jan. 25	2420	565	82	520
Pettengill, Alden M. (See Stockbridge and Rollins, assignors.)						
Pettengill, Timothy H., Amsterdam, N. Y. Electric-arc lamp	603,283	May 3	67	17	83	614
Pettengill, Timothy H., Amsterdam, N. Y. Electric-arc lamp	611,460	Sept. 27	2427	557	84	1959
Petterson, Lars M., <i>et al.</i> (See Sundberg, William E., assignor.)						
Petterson, Ludwig, Chicago, Ill. Bicycle	607,075	July 12	824	180	84	179
Pettes, Moses M., assignor of one-half to E. F. Moroney, A. Baumbach, and H. M. Curtin, Houston, Tex. Automatic car-coupling	615,742	Dec. 13	956	222	85	1613
Pettibone, James, Cincinnati, Ohio. Sword-slinging hook	603,538	May 3	551	121	83	707
Pettingell, George D., Jefferson, Iowa. Combined door latch and stop	597,219	Jan. 11	1323	308	82	272
Pettingell, George D., Jefferson, Iowa. Air-brake and steam-pipe coupling	597,220	Jan. 11	1324	309	82	273
Pettit, Alonzo R., Patchogue, N. Y. Clasp or fastening device	600,887	Mar. 22	2279	519	82	1706
Pettit, George, Jr., Fresno, Cal. Stemming and cleaning fruit	603,029	Apr. 26	2494	565	83	517
Petts, Don L., Keene, N. H. Wrapper for cuffs or like articles	607,572	July 19	1925	399	84	410
Petway, Robert G., Nashville, Tenn. Roller-bearing	608,709	Aug. 9	974	224	84	866
Petzenbürger, Arthur, Gross Lichterfelde, Germany. Conduit and electric-current conductor for surface railways	614,575	Nov. 22	2407	549 550	85	1130
Peugh, Peter P., and J. M. Frazee, Wheeling, Mo. Spring bed-bottom	606,683	July 5	88	19	84	20
Pfau, Charles, assignor to Pfau Manufacturing Company, Cincinnati, Ohio. Water-closet tank	602,195	Apr. 12	1060	232	83	213
Pfau Manufacturing Company. (See Pfau, Charles, assignor.)						
Pfeffer, Henry P., and F. T. Mayer, New Orleans, La. Chimney-holder for lamp-burners	616,007	Dec. 13	1440	337	85	1706
Pfeiffer, Jacob. (See Bridge, Thomas R., assignor.)						
Pfeiffer, Jacob. (See Claffey and Koplin, assignors.)						
Pfeiffer, Louis, Jr., Bufkin, Ind. End-gate latch for wagons	614,758	Nov. 22	2745	626	85	1193
Pfeil, George H. (See Smith, Luke, assignor.)						
Pfening, Maria, Santa Barbara, Cal. Butter-mold	607,128	July 12	928	201	84	198
Pfenning, Carl A., Barmen, Germany. Fastener for gloves	603,202	Apr. 26	2784	634 635	83	573
Pflaging, Charles R., Baltimore, Md. Plug-tobacco-tagging machine	597,153	Jan. 11	1216	286	82	253
Pflanz, Jakob, Chicago, Ill. Drawbridge	597,221	Jan. 11	1327	309 310	82	273
Pfluger, Charles A., Chicago, Ill. Switch for arc-lamps	606,939	July 5	531	117	84	105
Pfluger, Charles A., Chicago, Ill. Electric-arc lamp	608,269	Aug. 2	172	41	84	689
Pfund, Richard, New York, N. Y. Multiple telephony and telegraphy	604,499	May 24	2356	534	83	1124
Phagan, James F., Cheyenne, Wyo. Bed-spring stretcher	605,009	May 31	3227	743	83	1310
Phares, William W., Cincinnati, Ohio. Game-board	616,557	Dec. 27	2508	580	85	1954
Pharr, Henry N. (See Marsh and Pharr.)						
Phelan, John J., Worcester, Mass. Water-closet	613,846	Nov. 8	1109	253	85	848
Phelps, Abel M., New York, N. Y. Safety guard and truck for cars, &c	599,629	Feb. 22	2755	641 642	82	1185
Phelps, Abel M., New York, N. Y. Safety-guard for railway-cars	599,630	Feb. 22	2758	642	82	1186
Phelps, Augustus, Newark, N. J. Badge	604,213	May 17	1810	407	83	1001
Phelps, Chamberlayne, Buck's Bridge, N. Y. Fire-kindler	612,631	Oct. 18	1851	438	85	378
Phelps, Charles S., Charleston, S. C. Railway	598,957	Feb. 15	1516	361	82	924
Phelps, Frederick A., Jr., Johnstown, Pa. Pipe-coupling	604,159	May 17	1708	385	83	981
Phelps, Frederick A., Jr., Newark, N. J., assignor to Cochran Company, Lorain, Ohio. Multiple pipe-coil	612,175	Oct. 11	1034	249	85	212
Phelps, George L., West Pullman, Ill. Coin-controlled letter-box	598,534	Feb. 8	799	191	82	771
Phelps, Homer L. (See Palmer and Phelps.)						
Phelps, Homer L., Athens, Pa. Shoemaker's last and stand	598,812	Feb. 8	1259	305	82	858
Phelps, Ira M., deceased; M. Phelps, administratrix, assignor of one-half to J. A. Gill, Philadelphia, Pa. Non-refillable bottle	596,615	Jan. 4	279	61	82	56
Phelps, James M., assignor to E. N. Clements and M. D. Phelps, Denver, Colo. Line tightening and supporting device	614,060	Nov. 8	1446	332	85	915
Phelps, Lucius J., New Brunswick, N. J. Pneumatic tire	606,790	July 5	296	61	84	59
Phelps, Lynn, Kaneville, Ill. Tank-heater	610,561	Sept. 13	784	178	84	1605
Phelps, Mary D., <i>et al.</i> (See Phelps, James M., assignor.)						
Phelps, Mima, administratrix. (See Phelps, Ira M.)						
Phelps, Thomas C., Newton, Mass. Tent	602,587	Apr. 19	1716	390 391	83	354
Phelps, William H., Fort Wayne, Ind. Shoe brake and head	608,623	Aug. 9	811	188	84	834
Phelps, William H., Fort Wayne, Ind. Vaporizer for hydrocarbon oils	609,557	Aug. 23	2579	604	84	1203
Phelps, William H., and J. F. Brenner, Quincy, Ill. Tool for loosening inner tubes of bicycle-tires	616,487	Dec. 27	2382	552	85	1931



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Phelps, William J., Chicago, Ill. Electric incandescent lamp	603,705	May 10	838	186	83	780
Philadelphia Camera Company. (See Kinsey, James C., assignor.)						
Philadelphia Safety Window Company. (See Schmitz, Theodore H., assignor.)						
Philadelphia Textile Machinery Company. (See Schwartz, Charles W., Jr., assignor.)						
Philbrick, Halsey B. (See Donley, James R., assignor.)						
Philbrook, Emmeline W., Boston, Mass. Eye-shade	608,005	July 26	2755	585	84	589
Philippi, Theodore F., St. Louis, Mo. Rail-joint	602,102	Apr. 12	888	193	83	180
Philips, Alfred, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst, Germany. Basic disazo dye	610,367	Sept. 6	442		84	1523
Philips, Edwin S., assignor to American Road Machine Company, Kennett Square, Pa. Portably-mounted rock-crusher	616,254	Dec. 20	1936	448 449	85	1822
Philips, Frank W., Cleveland, Ohio. Speed-wagon	616,438	Sept. 27	2390	548	84	1951
Philips, William W., Glenshaw, Pa. Window-curtain fixture	611,141	Sept. 20	1804	415	84	1824
Philips, Benjamin. (See Forster, William E., assignor.)						
Phillips, Carrie F., Norfolk, Va. Fruit-strainer	610,368	Sept. 6	443	96	84	1523
Phillips, Charles A. (See Foltz and Phillips.)						
Phillips, Charles F., Los Angeles, Cal. Cork-extractor	601,380	Mar. 29	3133	708	82	1896
Phillips, Charles G., et al. (See Mitchell, Frank H., assignor.)						
Phillips & Clark Stove Company. (See Hulbert, Seymour C., assignor.)						
Phillips, Darius T., Chicago, Ill. Corn-harvester	605,650	June 14	1089	251	83	1580
Phillips, David, Pony, Mont. Thawing apparatus	604,264	May 17	1907	427	83	1020
Phillips, David E., Mahanoy City, Pa. Screen	597,245	Jan. 11	1361	318	82	280
Phillips, Elbert B., Cleveland, Ohio. Bicycle-tread	614,496	Nov. 22	2282	522	85	1107
Phillips, Elwood C., assignor to H. and H. Breyer, Jr., Chicago, Ill. Waste-plug	601,400	Mar. 29	3176	717	82	1903
Phillips, Enoch D., Toledo, Ohio. Machine for making billets	614,622	Nov. 22	2497	570 571	85	1145
Phillips, Francis V., assignor to Smith & Phillips Manufacturing Company, Chicago, Ill. Machine for cutting pockets in window-stiles	616,352	Dec. 20	2116	493	85	1858
Phillips, Francis V., assignor to Smith & Phillips Manufacturing Company, Chicago, Ill. Machine for cutting window-stile pockets	616,353	Dec. 20	2120	494	85	1859
Phillips, Frederick W., London, England. Checking apparatus for registering payments on vehicles, &c	609,045	Aug. 16	1642	392	84	1006
Phillips, Henry L., London, England, assignor to C. M. Higgins, New York, N. Y. Bottle-stopper	610,198	Sept. 6	84	17	84	1456
Phillips, Herbert C., New Castle, Pa. Bicycle-saddle	607,191	July 12	1043	225	84	218
Phillips, John E., Central Square, N. Y. Cream-separator	609,461	Aug. 23	2414	566	84	1172
Phillips, John J., Grayson, Ky. Thill-coupling	603,966	May 10	1302	297	83	869
Phillips, Norman A., New Castle, Pa., assignor to Frost Gear Case Company, New York, N. Y. Gear-case	601,733	Apr. 5	214	42, 43	83	41
Phillips, Oscar H. (See Coombs, Robert W., assignor.)						
Phillips, Phillip, Ballan, Victoria. Wood-filler	614,024	Nov. 8	1394		85	905
Phillips, Ross M. G., assignor to one-half to J. A. Smith, Los Angeles, Cal. Dark-lantern	614,341	Nov. 15	1980	457	85	1037
Phillips, Squire A., et al. (See Parks, Thomas W., assignor.)						
Phillips, William E., assignor, by mesne assignments, to L. B. Baker, Racine, Wis. Curry-comb	609,240	Aug. 16	2016	478	84	1076
Phillips, William H., et al. (See Parks, Thomas W., assignor.)						
Phillips, William R., assignor to himself and G. W. Ogle, Pomona, Cal. Harness attachment	608,074	July 26	2865	613	84	611
Phillips, Willis E., Saguache, Colo. Harrow	605,651	June 14	1094	252	83	1581
Phillips, Wilson H., Wampum, Pa. Rotary engine	605,585	June 14	959	222 223	83	1557
Philp, John, New York, N. Y. Thrust-block	601,103	Mar. 22	2624	599	82	1771
Phinney, Horatio, Providence, R. I. Cooking-range	611,390	Sept. 27	2300	531	84	1935
Phipps, Edward, Glenville, Ohio. Bicycle handle-bar	607,876	July 26	2509	532	84	539
Phipps, Gordon. (See Murray, George T., assignor.)						
Phoenix Industrial Company. (See Kelly and Linendoll, assignors.)						
Phoenix Interior Telephone Company (See Sutton, George W., assignor.)						
Phoenix Iron Works Company. (See Barnaby, Charles W., assignor.)						
Phoenix Raisin Seeding and Packing Company. (See Cox, Cary S., assignor.)						
Piat, Albert. (See Dame and Pottevin, assignors.)						
Piatt, Abram S., assignor of one-sixth to W. M. Piatt, West Liberty, Ohio. Rotary engine	601,381	Mar. 29	3137	708	82	1896
Piatt, William M. (See Piatt, Abram S., assignor.)						
Picher, Oliver H. (See Bartlett and Petraeus, assignors.)						
Picher, Oliver H. (See Petraeus, Carl V., assignor.)						
Picher, Oliver H., et al. (See Vollath, George, assignor.)						
Pickard, Wesley A., Ewing, Ill. Trap	610,199	Sept. 6	86	17	84	1457
Pickering, Barton, Dayton, Ohio. Water-motor	616,188	Dec. 20	1711	397	85	1775
Pickering, Isaac P., Elwood, Nebr. Plow-shovel	613,302	Nov. 1	139	32	85	644
Pickering, William H., Cambridge, Mass. Motor-vehicle	603,047	Apr. 26	2517	571	83	522
Pickett, Mollie, assignor of one-half to J. W. Barnett, Roby, Tex. Bed-slat	596,684	Jan. 4	401	90	82	80
Pickett, Oliver B., Richmond, Ind. Lawn-mower	610,200	Sept. 6	87	18	84	1457
Pickford, John S. (See Lee and Pickford.)						
Pickett, Ambris C., St. Louis, Mo. Emery-wheel attachment for sewing-machines	612,271	Oct. 11	1207	289	85	244
Pickett, Edward F., Buffalo, N. Y. Valve for pneumatic tires	612,570	Oct. 18	1726	409	85	355
Pickett, Joseph H., assignor to C. S. Dickinson, Baldwinville, Mass. Corner-locking machine	612,119	Oct. 11	941	227 228	85	194
Pickett, Rufus S., New Haven, assignor of one-fourth to J. Graham, Orange, Conn. Vehicle-shaft	612,787	Oct. 18	2127	506	85	432
Pickinpaugh, George J. (See Carder and Pickinpaugh.)						
Pickles, Charles K., St. Louis, Mo. Step-over car-seat	607,414	July 12	1459	309	84	298
Pickles, Charles K., assignor to S. M. Dodd, St. Louis, Mo. Step-over car-seat	613,422	Nov. 1	387	89	85	689
Pickles, Charles K., assignor to S. M. Dodd, St. Louis, Mo. Step-over car-seat	613,423	Nov. 1	390	90	85	690
Pickles, Charles K., assignor to S. M. Dodd, St. Louis, Mo. Step-over car-seat	615,224	Nov. 29	3665	840	85	1386
Pickles, Charles K., assignor to S. M. Dodd, St. Louis, Mo. Step-over car-seat	615,225	Nov. 29	3667	841	85	1386
Pickles, Charles K., assignor to S. M. Dodd, St. Louis, Mo. Step-over car-seat	615,226	Nov. 29	3669	841	85	1387
Pickles, Charles K., assignor to S. M. Dodd, St. Louis, Mo. Step-over car-seat	615,227	Nov. 29	3671	841	85	1388
Pickles, James, assignor to S. O. & C. Company, Ansonia, Conn. Die for forming eye-lets	596,788	Jan. 4	589	136	82	113
Pickrell, John, Louisville, Ky. Dumping-cart	598,390	Feb. 1	543	133	82	705
Pickring, Charles, Richmond, Canada, assignor to Lappin Brake Shoe Company, Bloomfield, N. J. Smoke-stack. (Reissue)	11,686	Aug. 2	699	158	84	795
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)						
Pieper, Anton, Dülken, Germany. Apparatus for manufacturing objects from compressible material, such as asphalt, &c	615,573	Dec. 6	663	152	85	1542
Pieper, Oscar H. and A. F., Rochester, N. Y. Electric motor	599,791	Mar. 1	200	49, 50	82	1252



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Pier, Caroline B., <i>et al.</i> (See Timmis, William, assignor.)						
Pierce, Albert H., Hillsdale, Mich. Gear-case	596,616	Jan. 4	281	61	82	56
Pierce, Almon J., New York, N. Y. Music-sheet and turning device therefor	612,672	Oct. 18	1920	455	85	391
Pierce, Charles S., Brockton, Mass. Handle for jars	611,708	Oct. 4	204	48	85	42
Pierce, Charles S., Brockton, Mass. Holder for shoe-tops	615,894	Dec. 13	1212	284	85	1662
Pierce-Crouch Engine Company. (See Crouch, Walker L., assignor.)						
Pierce, Harry H., assignor to New Process Lime Company, Toledo, Ohio. Treating lime	599,792	Mar. 1	202	-----	82	1253
Pierce, Isaac, West Bay City, Mich. Casket-sling	613,938	Nov. 8	1259	286	85	877
Pierce, James, Springville City, Utah. Car-coupling	598,181	Feb. 1	191	45	82	639
Pierce, Joseph H., and E. A. Thayer, Pueblo, Colo. Air-pressure filter	607,523	July 19	1831	382	84	394
Pierce, Kirk D., <i>et al.</i> (See Paige, Van R., assignor.)						
Pierce, Mason R. (See Murphy and Pierce.)						
Pierce, Roscoe, Springfield, Ohio. Paper-cutter	612,120	Oct. 11	945	228	85	195
Pierce, Walter C. (See Rexroad, James M., assignor.)						
Pierce, William H., Tolono, Ill. Automatic weighing-machine	613,866	Nov. 8	1146	262	85	855
Pierce, Zachariah L., Manitou, Ill. Lifting-tool	613,303	Nov. 1	141	33	85	644
Piercy, Henry J. T. (See Hall and Piercy.)						
Piercy, Isaac. (See Dumaw, Charles, Jr., assignor.)						
Pierpoint, James, Pittsburg, Pa. Vertical water-tube boiler	600,374	Mar. 8	1372	313	82	1501
Pierpont, Frank H., Hartford, Conn. Apparatus for facilitating delineation of outlines of type-faces, &c	600,292	Mar. 8	1245	283	82	1477
Pierrepoint, Evelyn, London, England. Shield for corns	607,950	July 26	2639	560	84	563
Piers, Eustace F., London, England. Engine for driving tramway-cars	606,081	June 21	1941	445	83	1756
Pierson, James H., Worthington, Ind. Fence-post	603,454	May 3	369	83	83	672
Pierson, Whitfield H., Randolph, Nebr. Egg-tester	600,445	Mar. 8	1490	340	82	1522
Piesbergen, Rudolf, Berlin, Germany. Hat-holding device	608,710	Aug. 9	975	224	84	867
Piessens, Henry, Philadelphia, Pa. Shoe	607,573	July 19	1926	399	84	410
Pieters, Gerardus J., Amsterdam, Netherlands. Fog-horn	614,215	Nov. 15	1739	399	85	992
Pietraschewski, Leon, Borissoglebsk, Russia. Metallurgical furnace	614,129	Nov. 15	1591	364	85	964
Piez, Charles, assignor to Link-Belt Engineering Company, Philadelphia, Pa. Car-haul	600,798	Mar. 15	2123	485	82	1663
Piggott, Edmund, Dresden, Canada. Animal-trap	613,304	Nov. 1	141	33	85	644
Pignotti, Riccardo, F. Lori, S. Regnoli, M. Besso, and M. Pantaleoni, Rome, Italy. Electric furnace	611,142	Sept. 20	1805	415	84	1824
Pihl, Olaf R., Portland, Oreg. Pencil-holder	597,295	Jan. 11	1435	336	82	295
Pihl, Olaf R., Portland, Oreg. Handle-bar for bicycles	599,793	Mar. 1	203	50	82	1253
Pike, Charles F., Philadelphia, Pa., assignor to United States Pneumatic Despatch Company, Burlington, N. J. Receiver appliance for pneumatic-despatch-tube systems	616,255	Dec. 20	1939	449	85	1823
Pike, Harvey A., St. Louis, Mo. Calipers	611,391	Sept. 27	2301	531	84	1935
Pike, Harvey A., St. Louis, Mo. Track-sanding apparatus	611,392	Sept. 27	2303	531	84	1936
Pike, Lyman, Anaheim, Cal. Machine for digging beets	601,904	Apr. 5	542	112	83	102
Pike, William H., Jr., assignor to American Arithmometer Company, St. Louis, Mo. Calculating-machine	615,895	Dec. 13	1213	284	85	1662
Pilger, Henry. (See Bowles and Layton, assignors.)						
Pilkington, Joseph H., Waterbury, Conn. Clasp	606,082	June 21	1943	446	83	1756
Pilkington, William L., St. Helen's, England. Production of corrugated sheet-glass and apparatus therefor	608,905	Aug. 9	1333	311	84	933
Pillatt, Andrew, Nottingham, England. Furnace	605,206	June 7	278	64	83	1408
Pillatt, Andrew, Nottingham, England. Furnace for water-tube boilers	605,511	June 14	826	192	83	1532
Pillatt, Andrew, Nottingham, England. Rocking fire-bar for furnaces	608,712	Aug. 9	977	225	84	867
Pillatt, Andrew, assignor of one-half to J. T. Perry, Nottingham, England. Cycle-saddle	600,799	Mar. 15	2125	486	82	1663
Pinckney, William E., Chicago, Ill. Carbureter	603,431	May 3	323	73	83	662
Pincus, Walter, Philadelphia, Pa. Driving mechanism for bicycles	599,065	Feb. 15	1699	403	82	960
Pindar, William M., <i>et al.</i> (See Bosanko, Alexander, assignor.)						
Pine, Edwin J., Mobile, Ala. Armor for pneumatic tires	608,075	July 26	2866	613	84	611
Ping, Robert G., Audubon, Iowa. Dish-cleaner	601,275	Mar. 29	2961	670	82	1863
Pinkert, Johann G., Hamburg, Germany. Self-acting closing device for propeller-pipes	607,548	July 19	1882	391	84	403
Pinkerton, John W., Zanesville, Ohio. Method of and apparatus for roasting coffee	598,813	Feb. 8	1260	305	82	859
Pinkham, Almada A., assignor of one-half to T. J. Canedy, North Adams, Mass. Adjustable skirt-pattern	602,471	Apr. 19	1529	347	83	321
Pinkham, Ralph H., Wakefield, Mass. Apparatus for removing gravel from frozen ground	605,512	June 14	827	192	83	1532
Pinney, Charles L., Los Angeles, Cal. Pipe-binder	603,455	May 3	371	83	83	672
Pino, Giuseppe, Genoa, Italy. Apparatus for submarine work	612,458	Oct. 18	1526	366	85	317
Pinolehto, Abel, Sandstone, Minn. Hay-loading attachment for wagons	614,887	Nov. 29	2934	684	85	1255
Pinover, Alexander, New York, N. Y. Chain-adjusting device	605,743	June 14	1242	287	83	1609
Pintsch, Richard, Berlin, Germany, assignor to Safety Car Heating and Lighting Company, New York, N. Y. Acetylene-gas generator	611,002	Sept. 20	1546	356	84	1774
Piotrowski, Rudolf, San Francisco, Cal. Beer-barrel	607,661	July 19	2093	437	84	441
Piper, Edward S., Toronto, Canada. Bicycle-stall	597,510	Jan. 18	1828	423	82	389
Piper, James P. (See Shoettle, Charles, assignor.)						
Piper, Robert, Toledo, Ohio. Bicycle-tire	612,054	Oct. 11	826	202	85	172
Piper, William M., Allegheny, Pa. Draft-rigging	609,701	Aug. 23	2861	669	84	1257
Piron, Henri J., Brussels, Belgium. Slow-combustion stove	603,967	May 10	1303	298	83	870
Piron, Henri J., Brussels, Belgium. Hot-air heating apparatus	610,689	Sept. 13	982	228	84	1647
Pischke, Hugo A., South Bend, Ind. Sash-balance	598,574	Feb. 8	870	208	82	786
Pitcher, Alansing D., Marlette, Mich. Pea-harvester	607,704	July 19	2161	454	84	454
Pitkin, Albert J., Schenectady, N. Y. Steam-propelled car	603,284	May 3	69	17, 18	83	614
Pitman, Francis M., and W. T. Maxwell, Cutler, Ind. Street-sweeper	612,632	Oct. 18	1832	438	85	379
Pitman, Harry M., San Francisco, Cal. Sash-hinge	599,251	Feb. 15	2002	475	82	1015
Pitney, Albert L., Washington, D. C., assignor to Calovit Heating Company. Gas-stove	603,456	May 3	371	84	83	672
Pitt, Thomas S., Boston, Mass. Endoscopic instrument	605,652	June 14	1095	252	83	1581
Pitts Agricultural Works. (See Todd, Marquis J., assignor.)						
Pitts, Hanover E., Nora Springs, Iowa. Cloth-measuring machine	597,824	Jan. 25	2361	552	82	508
Pitts, John W., Hueneme, Cal. Wave-motor	613,075	Oct. 25	2626	621	85	549
Pittsburgh Motor Vehicle Company. (See Clarke, Morgan, and Gordon, assignors.)						
Pittsburgh Ornamental Iron Works. (See Gracey and Watt, assignors.)						
Pittsburgh Supply Company. (See Wylie, Thomas B., assignor.)						
Piver, John W., Pinia, Ga. Composite flooring or ceiling	598,437	Feb. 1	636	156	82	724



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Pjerrou, John F., assignor to himself and C. W. Ackerman, West Point, Nebr. Knock-down stove	611,143	Sept. 20	1806	416	84	1824
Place, Frank E. (See Greenwood, George, assignor.)						
Place, John. (See Lock and Place.)						
Place, John W., New York, N. Y. Cabinet	602,103	Apr. 12	889	193	83	180
Place, Willard A., La Porte, Ind. Potato-bug harvester	601,165	Mar. 22	2728	627	82	1791
Place, William B., King's Mills, Ohio. Machine for heading cartridge-shells	605,338	June 7	527	118	83	1453
Place, William B., King's Mills, assignor to Peters Cartridge Company, Cincinnati, Ohio. Machine for priming or capping heads of cartridge-shells	605,339	June 7	533	119 120	83	1454
Place, William B., King's Mills, assignor to Peters Cartridge Company, Cincinnati, Ohio. Machine for assembling heads of cartridge-shells	605,340	June 7	537	120 121	83	1455
Placet, Paul E., Paris, France. Purification of aluminium	600,268	Mar. 8	1213		82	1470
Plagman, Adolph, Davenport, Iowa. Mechanical movement	608,220	Aug. 2	93	24	84	673
Plahn, August, Holstein, Iowa. Animal-trap	598,438	Feb. 1	637	157	82	724
Plain, Perry D., Atwater, Ill. Nut-lock	613,776	Nov. 8	990	226	85	825
Plaisted, Charles C., Hartford, Conn. Bicycle-support	602,141	Apr. 12	952	208	83	192
Plaisted, Edgell R., Montpelier, Vt. Variable-speed-transmitting device	599,193	Feb. 15	1908	452	82	997
Plaisted, F. A. (See Brilliant, Mark, assignor.)						
Plano Manufacturing Company. (See Dennis, Samuel K., assignor.)						
Plano Manufacturing Company. (See Macphail, James, assignor.)						
Plano Manufacturing Company. (See Morris, John, assignor.)						
Plant, Edmund H. T., and S. Dellow, Charters Towers, Queensland. Amalgamating-pan	611,506	Sept. 27	2510	579	84	1975
Plant, Henry W., New York, N. Y. Lap-robe	609,365	Aug. 16	2232	528	84	1119
Plant, Joseph, assignor of one-half to H. H. Miller, deceased, Minneapolis, Minn.; C. N. Smith, administrator. Valved union	613,600	Nov. 1	685	158	85	746
Plaster Machine Company. (See Smith, Eugene C., assignor.)						
Platt, Albert L., assignor of two-thirds to J. M. Wilcox and F. Ball, Clinton, Ill. Adding-machine	596,539	Jan. 4	136	31	82	29
Platt, Albert L., assignor of two-thirds to J. M. Wilcox and F. Ball, Clinton, Ill. Adding-machine	599,730	Mar. 1	89	21	82	1233
Platt, Albert L., assignor to Clinton Book Holder Company, Clinton, Ill. Book-holder	602,169	Apr. 12	1015	223	83	204
Platt, Alfred F., Cleveland, Ohio. Apparatus for chemical cleaning	608,792	Aug. 9	1106	256	84	891
Platt, Clayton E. (See Strong, George S., assignor.)						
Platt, Cyrus W., J. M. Patterson, and J. Hammell, Jr., Windfall, Ind. Implement for holding bottles, &c	606,736	July 5	177	40	84	36
Platt, Irving G., deceased; L. A. Platt, Waterbury, Conn., administrator. Button	605,130	June 7	107	27	83	1372
Platt, James E., Goshen, N. Y. Horseshoe's gage	616,256	Dec. 20	1941	451	85	1823
Platt, James F. (See Tracy and Platt.)						
Platt, John, Warrington, England. Apparatus for cutting piled fabrics	603,224	Apr. 26	2821	645	83	581
Platt, John W., administrator. (See Tracy and Platt.)						
Platt, Lewis A., administrator. (See Platt, Irving G.)						
Platt, Ocron S., Bridgeport, Conn. Electric switch	601,276	Mar. 29	2963	670	82	1863
Plattsburgh Filter and Process Company. (See Feroe, William E., assignor.)						
Plaut, Louis, assignor of two-thirds to E. and A. Koch, New York, N. Y. Electric-telephone system for houses	608,076	July 26	2867	613	84	611
Player, John, Topeka, Kans. Railway-frog chair	601,478	Mar. 29	3300	747	82	1927
Playford Stoker Company. (See Allen and Tibbitts, assignors.)						
Pleasants, William A. (See Shaffer, Richard M., assignor.)						
Plested, William E., Watford, England. Key for joints	611,439	Sept. 27	2393	548	84	1951
Pletcher, Benjamin F., Lock Haven, Pa. Envelop moistener and sealer	611,934	Oct. 4	589	142	85	116
Pletcher, Levi L., Malta, Ohio. Fastener for coffin-lids	599,109	Feb. 15	1773	421	82	974
Pletcher, Levi L., Malta, Ohio. Combined hinge and fastener	600,318	Mar. 8	1283	293	82	1484
Pletcher, Levi L., Malta, Ohio. Coffin-fastener	604,786	May 31	2862	654	83	1239
Pletcher, Levi L., McConnellsville, assignor to J. F. Davis, Malta, Ohio. Egg-tester	614,342	Nov. 15	1983	458	85	1037
Plimpton, Walter H., Boston, Mass. Door-fastener	605,809	June 14	1381	317	83	1634
Plish, Walter, trustee. (See Goebel, Christian H., assignor.)						
Plomberg, Sever H., Leland, Iowa. Hay-rack for farm-wagons	616,008	Dec. 13	1441	337	85	1706
Plucker, Catherine A. (See Cowden, Thomas V., assignor.)						
Plumb, Fawcett. (See Courtney, John C., assignor.)						
Plumber's Metallic Joint Company. (See Davey, Thomas, assignor.)						
Plume & Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)						
Plummer, Albert T., New York, N. Y. Bottle	601,166	Mar. 22	2728	628	82	1791
Plummer, Cyrus, Flemingsburg, Ky. Cistern-cleaner	612,176	Oct. 11	1035	249	85	212
Plummer, John E., Waterville, N. Y. Combination furniture	611,144	Sept. 20	1808	416	84	1824
Plummer, John P. (See Booth and Plummer.)						
Plunkett, Harry W. G., London, England. Saddle	606,281	June 28	2323	537 538	83	1851
Plush, Abram L., and G. H. Noblit, Bryn Mawr, assignors of one-third to W. Bevan, Rosemont, Pa. Elevator	605,910	June 21	1597	367 368	83	1695
Plush, Abram L., and G. H. Noblit, Bryn Mawr, assignors of one-third to W. Bevan, Rosemont, Pa. Safety device for elevators	605,911	June 21	1599	368	83	1695
Pneumatic Elevator and Weigher Company. (See Morgan, John O., assignor.)						
Pneumatic Elevator and Weigher Company. (See Schuman, James B., assignor.)						
Pneumatic Engineering Company. (See Titus, Silas W., assignor.)						
Pneumatic Engineering Company. (See Titus, Silas W., assignor.) (Reissue.)						
Pneumatic Power Company. (See Cummings Charles, assignor.)						
Pneumatic Tyre Company. (See Welch, Charles K., assignor.)						
Poage, John N., College Hill, Ohio. Inlet-valve for water-tanks	610,242	Sept. 6	186	42	84	1478
Poché, Joseph A., New Orleans, La. Insulation of electric wires	608,906	Aug. 9	1334	311	84	933
Poché, Joseph A., New Orleans, La. Vacuum insulator for electric conductors	615,896	Dec. 13	1215	285	85	1663
Podeyn, Henry F. M., Brooklyn, N. Y. Shaft-protector	600,375	Mar. 8	1373	314	82	1501
Podhaski, Frank M. (See Conner and Podhaski.)						
Poelman, Peter J., assignor of one-half to C. Jacob, New Orleans, La. Fender or guard for cars	610,915	Sept. 20	1386	317 318	84	1744
Poetz, John C., assignor of two-thirds to F. L. Clark, C. Sweeny, H. W. Peel, and F. H. Mason, Spokane, Wash. Hose-coupling	614,888	Nov. 29	2986	684	85	1255
Pogue, Cyrus F., Oswego, Ill. Cultivator	599,401	Feb. 22	2314	546	82	1098
Pohl, George D., Ava, N. Y. Curd-agitator	597,859	Jan. 25	2424	565	82	521
Poince lot, Adolphe. (See Raymond and Poincenot.)						
Poincy, Paul, New Orleans, La. Raising levels of low lands	606,980	July 5	596	131	84	119
Poindexter, Alfred, et al. (See Boxley, George, assignor.)						
Poindexter, Robert E., Indianapolis, Ind. Bicycle-brake	601,587	Mar. 29	3475	792	82	1964
Poindexter, Robert E., Indianapolis, Ind. Knife or scissors sharpener	609,046	Aug. 16	1644	392	84	1006
Poindexter, Robert E., Indianapolis, Ind. Knife sharpener	612,912	Oct. 25	2365	563	85	495
Pointon, Charles E. and J. E., Wellington, England. Machine for molding dough or like material	597,088	Jan. 11	1116	262	82	234



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Pointon, Charles E. and J. E., Wellington, England. Machine for dividing dough for bread-making, &c.....	597,089	Jan. 11	1117	263	82	234
Pointon, John E. (See Pointon, Charles E. and J. E.)						
Poitrimol, René A., Paris, France. Apparatus for vaporizing mineral oils, &c.....	607,951	July 26	2640	560	84	563
Pojarkow, Stepfan, Yekaterinoslav, Russia. Contrivance for automatically stopping trains, &c.....	605,973	June 21	1727	396 (340) 341 (342)	83	1718
Pole, Benjamin C., Camden, N. J. Multiple energizer momentum-engine.....	600,446	Mar. 8	1491		82	1523
Poliquin, Telesphore. (See Lefebvre and Poliquin.)						
Polk, Charles C., <i>et al.</i> (See Goetze, Max, assignor.)						
Polka, Jacob, Smith Centre, Kans. Combined buckle and snap-hook.....	603,576	May 3	603	134	83	718
Poll, Carl J., Gillett, Ark. Dough-cutter.....	607,076	July 12	825	180	84	179
Pollack, William. (See Bell, Frank M., assignor.)						
Pollock, Olive A. (See Ragsdale, William A., assignor.)						
Pollock, Thomas H., Neligh, Nebr. Portable automatic way-station.....	611,145	Sept. 20	1810	417	84	1825
Pomeroy Duplicator Company. (See Pomeroy, Eltweed, assignor.)						
Pomeroy, Eltweed, Newark, N. J., assignor to Pomeroy Duplicator Company, of New Jersey. Stencil-plate.....	601,479	Mar. 29	3301		82	1928
Pomeroy, John H. (See Mayer and Pomeroy.)						
Pomeroy, William D. (See Bossert and Pomeroy.)						
Pond, George W., Cleveland, Ohio. Bicycle-chain connection.....	600,595	Mar. 15	1784	408	82	1598
Pond, Goldsburly H., Ashburnham, Mass. Electrolytically treating straw or other fibrous material.....	616,139	Dec. 20	1713	397	85	1775
Pond, Merritt G., Minneapolis, Minn. Match-safe and cigar-cutter.....	609,996	Aug. 30	3379	785	84	1372
Ponton, Joseph P., Lexington, Tex. Horse-detacher.....	597,363	Jan. 11	1562	364	82	321
Pool, Alma A., Waukesha, Wis. Ironing-board.....	603,831	May 10	107	240	83	825
Pool, Daniel. (See Randolph, Arthello M., assignor.)						
Pool, Frank E., assignor to Smith-Hill Elevator Company, Quincy, Ill. Rheostat.....	601,588	Mar. 29	3476	792 (337) 338	82	1964
Pool, John F., Philadelphia, Pa. Mechanical stoker.....	616,009	Dec. 13	1443		85	1707
Poole, Benjamin. (See Foster, Lucian M., assignor.)						
Poole, Herman, New York, N. Y. Making phosphates.....	598,182	Feb. 1	193		82	639
Poole, John, London, England. Process of and apparatus for treating ore-tailings.....	611,935	Oct. 4	590 (142) 143		85	116
Poole, John H., Randolph, Mass. Bicycle-saddle.....	600,500	Mar. 8	1621	370	82	1548
Poole, John H., Randolph, assignor of one-third to F. S. Elwell, Malden, Mass. Anti-refilling device.....	606,026	June 21	1831	422	83	1735
Poole, Lorenzo, Belvidere, Ill. Molding-machine.....	615,574	Dec. 6	665	153	85	1542
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Wheel-plow.....	614,343	Nov. 15	1984 (458) 459		85	1038
Pooler, Hiram A., New York, N. Y. Filter.....	598,391	Feb. 1	544	133	82	706
Poor, George H., Deering, assignor of one-half to G. H. Libby, Portland, Me. Sash-fastener.....	613,714	Nov. 8	873	202	85	803
Poor, Morrill H., San Antonio, Tex. Tool.....	599,194	Feb. 15	1909	452	82	997
Poore, Richard. (See West, William, assignor.)						
Poore, Richard, assignor to L. C. Cropper, London, England. Hollow stud or rivet.....	605,010	May 31	3229	743	83	1311
Pope, Alfred A., assignor to National Malleable Castings Company, Cleveland, Ohio. Coupling-unlocking device.....	613,715	Nov. 8	874 (202) 203		85	803
Pope, Charles H., Brockton, assignor to W. B. Arnold, Abington, Mass. Treeing-support.....	608,993	Aug. 9	1518	358	84	967
Pope, Curran. (See Heinig, Frederick E., assignor.)						
Pope, Fredrick, Fond du Lac, Wis. Coin-controlled locking apparatus.....	614,344	Nov. 15	1989	459	85	1038
Pope, Jacob C. (See Engstrand, Sundeen, Pope, and Safford.)						
Pope, John M., Baltimore, Md. Tax-bill computator.....	614,274	Nov. 15	1861	430	85	1013
Pope, John W., Decorah, and W. C. Meyrick, Des Moines, assignors to Decorah Wind Mill Company, Decorah, Iowa. Power-winch.....	614,309	Nov. 15	1914 (441) 442		85	1024
Pope Manufacturing Company. (See Bubser, Fidel, assignor.)						
Pope Manufacturing Company. (See Cuntz, Hermann F., assignor.)						
Pope Manufacturing Company. (See Evans and Huggins, assignors.)						
Pope Manufacturing Company. (See Jacobs, Arthur I., assignor.)						
Pope Manufacturing Company. (See Maxim, Hiram P., assignor.)						
Popp, Georg, and H. Becker, Frankfort-on-the-Main, Germany. Preparing hides for tanning.....	607,549	July 19	1883		84	404
Porbeck, Otto, St. Louis, Mo. Dust-collector.....	603,285	May 3	71	18	83	615
Porritt, Josiah, San Francisco, Cal. Engine.....	602,794	Apr. 19	2084	472	83	424
Porsch, John, Erie, Pa. Plumber's wiping-pad.....	612,595	Oct. 18	1765	417	85	362
Portable Refrigerator and Freezer Company. (See Gaines, Stephen W., assignor.)						
Porten, William, St. Paul, Minn. Staging-horse.....	615,364	Dec. 6	263	61	85	1465
Porteous, Dundas W., London, England. Actuating mechanism for station-indicators.....	607,550	July 19	1888	391	84	404
Porteous, James, Fresno, Cal. Orchard-plow.....	613,305	Nov. 1	142	33	85	645
Porteous, James, and R. W. Cole, Fresno, Cal.; said Cole assignor to said Porteous. Seed-drill.....	609,905	Aug. 30	3199	750	84	1337
Porter, Abel K. and H. S., Quincy, Ill. Threshing-cylinder.....	612,932	Oct. 25	2398	571	85	503
Porter, Charles B., Newark, N. J. Fastener for basket-covers.....	598,274	Feb. 1	363	84	82	670
Porter, Daniel R., Chelsea, Mass. Egg-broiler.....	608,144	July 26	2976	638	84	632
Porter, Edward, Sydney, New South Wales. Telegram-transmitter.....	610,278	Sept. 6	264	56	84	1493
Porter, Edwin F., Boston, Mass., assignor to Bay State Electric Heat and Light Company, Jersey City, N. J. Apparatus for heating and agitating air.....	614,275	Nov. 15	1863	430	85	1014
Porter, Harry S. (See Porter, Abel K. and H. S.)						
Porter, Henry, New York, N. Y. Door spring and check.....	602,645	Apr. 19	1825	416	83	375
Porter, Horatio A., Holyoke, Mass. Bicycle-seat attachment.....	603,735	May 10	887	197	83	789
Porter, Joseph E. (See Warren, Horace G., assignor.)						
Porter, Louis H., Rockdale, Tex. Apparatus for cooling milk.....	602,956	Apr. 26	2378	542	83	497
Porter, Robert L., and J. D. Faulkner, Galena, Kans. Ice-cream freezer.....	604,214	May 17	1812	407	83	1002
Porter, William A. V., New York, N. Y. Dressing-case, bureau, &c.....	600,742	Mar. 15	2037	465	82	1647
Porter, William C., assignor of one-half to A. G. Obernolte, Arlington, Minn. Counting-machine.....	596,665	Jan. 4	365	81	82	72
Porter, William H., assignor to Air Lighter Company, New York, N. Y. Nesting gas-tips.....	612,055	Oct. 11	827	203	85	172
Porter, William H., assignor to Air Lighter Company, New York, N. Y. Catalytic material, &c.....	612,614	Oct. 18	1820		85	374
Porter, William H., assignor to Air Lighter Company, New York, N. Y. Manufacture of catalytic gas-lighters.....	612,615	Oct. 18	1822		85	374
Porter, William H., assignor to Air Lighter Company, New York, N. Y. Gas-tip.....	612,616	Oct. 18	1823	433	85	374
Porter, Wilson E., assignor to New Haven Clock Company, New Haven, Conn. Hammer for striking-clocks.....	605,744	June 14	1243	287	83	1609



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Porter, Wilson E., assignor to New Haven Clock Company, New Haven, Conn. Alarm-clock	615,044	Nov. 29	3300	759	85	1316
Porter's Sons, Robert. (See Gordon, William J., assignor.)						
Posh, Charles E., Winfield, Kans. Attachment for rubber shoes	605,232	June 7	326	75	83	1413
Posson, Wallace S., assignor of one-half to W. M. Boyle, O'Leary, Iowa. Corn-planter	600,800	Mar. 15	2126	486	82	1663
Post, Floyd L. (See Bye, David M., assignor.)						
Post, Gustaf von, Safsjostrom, Sweden. Automatic seed-planter	608,793	Aug. 9	1107	256	84	891
Post, Peter E., Kingston, N. Y. Skirt-supporting belt and belt-holder	608,907	Aug. 9	1335	312	84	933
Post, Willis H., Bloomington, Ill. Weighing-scale	612,505	Oct. 18	1603	383	85	332
Postlethwaite, Alonzo W., et al. (See Everhart, Logan W., assignor.)						
Postlethwaite, Charles E., London, England. Compound for cleaning wood	602,519	Apr. 19	1605		83	335
Postlethwaite, Robert H., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Winch	612,807	Oct. 9	2167	515	85	439
Postlethwaite, Zachary T., et al. (See Everhart, Logan W., assignor.)						
Poteet, Sam B., et al. (See Doyle, George M., assignor.)						
Pothoff, Louis, New York, N. Y. Machine for corrugating metal	609,294	Aug. 16	2116	502	84	1096
Pottenger, James H., Franklin, Ind. Spraying device	606,811	July 5	331	70	84	66
Potter, Charles, Holyoke, Mass. Draining-floor	596,540	Jan. 4	138	31	82	29
Potter, Charles, Plainfield, N. J. Bed-and-cylinder printing-press	615,897	Dec. 13	1218	285	85	1663
Potter, Charles E., et al. (See Greenleaf, Harry K., assignor.)						
Potter, Clark G., Paducah, Ky. Dust-guard for car-axle boxes	609,121	Aug. 16	1794	427	84	1032
Potter, Gideon. (See Vail and Potter.)						
Potter, Henry D., Cortland, N. Y. Carriage-top-prop joint	600,089	Mar. 1	849	195	82	1380
Potter, John A., Cleveland, Ohio. Forging-press	601,082	Mar. 22	2592	591	82	1765
Potter, John A., Cleveland, Ohio. Casting apparatus	601,083	Mar. 22	2593	591	82	1765
Potter, John A., Cleveland, Ohio. Regenerator	606,083	June 21	1944	447	83	1756
Potter, Joseph L., Indianapolis, Ind. Sewer-brace	597,738	Jan. 25	2204	514	82	479
Potter, Jotham, administrator. (See Lean, George R.)						
Potter-Parlin Company. (See Crawley and Johnston, assignors.)						
Potter, Samuel A., Washington, D. C. Kite	607,129	July 12	929	201 202	84	198
Potter, William, Jr., et al., trustees. (See Jones, Lyman R., assignor.)						
Potter, William, New York, N. Y. Mortising-chisel	597,020	Jan. 11	983	232	82	207
Potter, William, New York, N. Y. Mortising-chisel	609,366	Aug. 16	2233	528	84	1119
Potter, William B. (See Libby and Potter.)						
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Commutator	608,299	Aug. 2	223	52	84	699
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Surface-contact railway system	611,760	Oct. 4	290	69	85	59
Potterf, Fannie L., Kansas City, Mo. Apparatus for extracting oil	615,104	Nov. 29	3413	783	85	1337
Pottevin, Henri. (See Dame and Pottevin.)						
Pöttgens, Johann, assignor to E. Dalchow, Berlin, Germany. Grinding and pulverizing machine	611,867	Oct. 4	480	116	85	96
Potthoff, Louis, Flushing, N. Y. Electroplating apparatus	603,286	May 3	73	19	83	615
Potter & Stymus Company. (See Johnston, Johns S., assignor.)						
Pottier & Stymus Company. (See Markel, Adam, assignor.)						
Pottin, Henry, Paris, France. Cash registering and stamping desk	597,068	Jan. 11	1070	251 252 253 254 728	82	225
Pottin, Henry, Paris, France. Apparatus for registering and controlling cash payments	614,977	Nov. 29	3171	729 730 731	85	1293
Pottin, Henry, Paris, France. Cash-recorder	614,978	Nov. 29	3174	730 731	85	1293
Potts, George L., Appleton, Wis. Apparatus for pasteurizing or sterilizing liquids	614,130	Nov. 15	1593	365	85	964
Potts, Joseph C., Berwyn, Pa. Crank-power	600,169	Mar. 8	1046	235 236	82	1439
Potzner, John, et al. (See Thoma, Julius L., assignor.)						
Poulin, Edmond M., Boston, and H. F. Eaton, Quincy, Mass. Railway-switch	601,382	Mar. 29	3139	709	82	1897
Poulsen, Alfred, Buffalo, N. Y. Trousers-guard	616,558	Dec. 27	2509	580	85	1955
Poulter, Micajah L., Salem, Iowa. Wire-fence-weaving machine	601,167	Mar. 22	2729	628	82	1791
Pouncy, Charles H., et al. (See Pouncy, John H., assignor.)						
Pouncy, John H., Quito, assignor of one-half to C. H. and W. D. Pouncy, Shelby county, Tenn. Swing	603,152	Apr. 26	2708	615	83	560
Pouncy, William D., et al. (See Pouncy, John H., assignor.)						
Pound, Orange, Bartow, Fla. Oil-cup	607,456	July 19	1540	327	84	329
Poupon, Charles, Eagle Lake, Fla. Extension-table	606,084	June 21	1945	447 448	83	1757
Powell, Cameron C. (See Minter, Edwin F., assignor.)						
Powell, David C., assignor of one-half to E. J. Powell, Michigan City, Ind. Grater	602,628	Apr. 19	1791	409	83	369
Powell, Eddie R., Hustonville, Ky. Shocking device	610,637	Sept. 13	909	208	84	1632
Powell, Edward J. (See Powell, David C., assignor.)						
Powell, Edward L., deceased, Atlantic Highlands, N. J.; H. Powell, administratrix. Filtering apparatus	612,976	Oct. 25	2466	588	85	517
Powell, Edward R., Hustonville, Ky. Automatic wagon-brake	600,928	Mar. 22	2343	532	82	1717
Powell, George G., Cleveland, Ohio. Handle-bar for bicycles	603,995	May 10	1361	309	83	882
Powell, Henrietta, administratrix. (See Powell, Edward L.)						
Powell, James, Avondale, assignor to William Powell Company, Cincinnati, Ohio. Lubricator	604,265	May 17	1908	427	83	1020
Powell, James, assignor to William Powell Company, Cincinnati, Ohio. Straightway valve	610,412	Sept. 6	517	113	84	1538
Powell, James F., Flint, Mich., assignor to Dash and Carriage Goods Company, Cincinnati, Ohio. Curtain-fastener	597,511	Jan. 18	1829	423	82	390
Powell, James R., Mattoon, Ill. Awning-protector	608,077	July 26	2870	614	84	612
Powell, Jasper N., Wichita, Kans. Metallic railway-tie	599,045	Feb. 15	1669	395	82	955
Powell, Jonathan, Johnstown, Pa. Curtain-pole and shade bracket	615,898	Dec. 13	1220	286	85	1663
Powell, Joseph. (See Crossman and Powell.)						
Powell, Nannie, Springfield, Mo. Gage attachment for shears	600,650	Mar. 15	1866	426	82	1613
Powell, Noah M., assignor of two-thirds to F. B. Parsons and O. D. Jones, Knox City, Mo. Photographic register for railway-coaches	610,971	Sept. 20	1484	338 339	84	1762
Powell, Noah M., assignor of two-thirds to F. B. Parsons and O. D. Jones, Edina, Mo. Seat-recording device for passenger-cars	610,972	Sept. 20	1487	339	84	1763
Powell, Noah M., assignor of two-thirds to F. B. Parsons and O. D. Jones, Edina, Mo. Tuning-hammer	610,973	Sept. 20	1489	339	84	1763
Powell, Richard C., Springfield, Ohio. Handsaw	601,480	Mar. 29	3302	747	82	1928



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Powell, W. H. (See Smith, George P., assignor.)						
Powell, William H., Erie, Pa., assignor to Keystone Electric Company, of Pennsylvania. Electric motor	608,711	Aug. 9	976	224	84	867
Powell, William M. (See Dipbo, Bruce, Semple, and Powell.)						
Powell, Wright M., Jr., St. Louis, Mo. Pipe-tongs	599,252	Feb. 15	2003	476	82	1016
Power Eyeletting Machine Company. (See Field, Seymour, assignor.)						
Power, Nicholas, New York, assignor to P. Braender, White Plains, N. Y. Differential piston-valve	603,922	May 10	1237	280	83	856
Powers, Abner B., assignor of one-half to J. F. Andre, Denver, Colo. Valve-stopper and pouring-nozzle	610,949	Sept. 20	1447	332	84	1756
Powers, James F. (See Duffy, Patrick, assignor.)						
Powers, Joseph A., Lansingburg, N. Y. Electric regulator	607,551	July 19	1890	391	84	404
Powers, Walter S., and A. J. Reynolds, Nashville, Mich. Acetylene-gas generator	608,270	Aug. 2	173	42	84	689
Poyet, John B., Philadelphia, Pa., assignor to Hensel Colladay Company, of Pennsylvania. Skirt-protector	606,876	July 5	447	96	84	88
Praeckel, Adolph T., New York, N. Y. Mouth and nose guard for firemen	601,401	Mar. 29	3177	717	82	1904
Praetsch, August B., Boston, Mass. Ventilator	614,497	Nov. 22	2283	523	85	1107
Prahl, Charles, assignor of three-fourths to Levy, Dreyfus & Co., New York, N. Y. Repeating watch	602,036	Apr. 5	776	168	83	147
Prall, Edgar F. (See Prall, William E. and E. F.)						
Prall, William E., Washington, D. C., assignor to Storage Power Company, of West Virginia. Engine	613,939	Nov. 8	1260	286	85	877
Prall, William E. and E. F., New York, N. Y., assignors to Superheated Water Engine Company, of West Virginia. Apparatus for converting heat into power	610,459	Sept. 6	594	133	84	1553
Prange, Leo. (See Daniels, William H., assignor.)						
Prangle, Alexander D., Bebington, assignor to J. H. Iredale, Liverpool, England. Cycle-lamp	600,447	Mar. 8	1500	343	82	1523
Prasse, Oscar C., West New Brighton, N. Y. Electric lantern	601,758	Apr. 5	263	51	83	50
Pratis, Leopoldo V., and P. Marengo, Turin, Italy. Process of and apparatus for making hydrogen gas and other products	610,867	Sept. 13	1304	300	84	1713
Pratis, Leopoldo V., and P. Marengo, Turin, Italy. Utilizing hydrogen gas for producing light and heat	610,868	Sept. 13	1307	300 301	84	1714
Pratis, Leopoldo V., and P. Marengo, Turin, Italy. Gas-motor	610,869	Sept. 13	1311	301	84	1715
Pratt, Aaron G., Hammondsport, N. Y. Bridge	597,590	Jan. 18	1957	455	82	416
Pratt, Andrew. (See Rose and Pratt.)						
Pratt, Annie F., Cambridge, Mass. Floor oiling and rubbing appliance	597,246	Jan. 11	1363	318	82	280
Pratt & Cady Company. (See Harrison, William F., assignor.)						
Pratt & Cady Company. (See Martin, George E., assignor.)						
Pratt, Charles A., Clinton, Mass. Air-cushioned tire	599,475	Feb. 22	2459	579	82	1126
Pratt, Charles C., et al. (See Pratt, William T. C., assignor.)						
Pratt, Charles C., Westfield, Mass. Trimming for whips	600,171	Mar. 8	1048	236	82	1439
Pratt, Charles E., assignor, by mesne assignments, to International Register Company, Chicago, Ill. Fare-register	605,912	June 21	1602	368 369 370	83	1695
Pratt, Charles H., Helena, Mont. Lacing-stud	600,553	Mar. 15	1717	393	82	1586
Pratt, Charles M., Towanda, Pa. Mucilage-bottle	598,575	Feb. 8	872	209	82	786
Pratt, Elias E., New Haven, Conn. Railway-car	615,575	Dec. 6	668	154	85	1543
Pratt, Emmeline A., et al. (See Pratt, William T. C., assignor.)						
Pratt, Emmeline F., et al. (See Pratt, William T. C., assignor.)						
Pratt, Eugene E., Andover, S. D. Folding box	602,588	Apr. 19	1718	391	83	355
Pratt, George L., Atlanta, Ga. Brush-holder for dynamo-electric machines	614,025	Nov. 8	1394	320	85	905
Pratt, John, Chatham, Canada. Swinging and sliding farm-gate	610,916	Sept. 20	1388	318	84	1744
Pratt, John, assignor to Hammond Type Writer Company, New York, N. Y. Type-writing machine	613,173	Oct. 25	2772	653 654	85	578
Pratt, John C., Hartford, Conn. Pulley for power transmission	616,630	Dec. 27	2627	609	85	1975
Pratt, John J., et al. (See Cottle, Henry F., assignor.)						
Pratt, Nathaniel P., Atlanta, Ga. Exhauster	602,770	Apr. 10	2033	460 461	83	415
Pratt, Ralph W., Orwell, N. Y. Holdback attachment for vehicles	596,617	Jan. 4	282	62	82	57
Pratt, Robert, Jr., Armington, Ill. Gate	611,936	Oct. 4	592	143	85	116
Pratt, Walter C., Lansing, Mich. Wire-and-slat-weaving machine	600,269	Mar. 8	1214	276	82	1470
Pratt, Walter L., Adams, N. Y. Automatic safety circuit closer and cut-out	600,743	Mar. 15	2039	466	82	1647
Pratt, Walter L., Adams, N. Y. Automatic leak or ground cut-out	613,046	Oct. 25	2571	610	85	538
Pratt & Whitney Company. (See Christiansen, John, assignor.)						
Pratt & Whitney Company. (See Harper and Dow, assignors.)						
Pratt & Whitney Company. (See Harper and Grohmann, assignors.)						
Pratt & Whitney Company. (See Thompson, Frank E., assignor.)						
Pratt, William T. C., deceased; W. H. Babcock, Washington, D. C., administrator, assignor to E. A., E. F., and C. C. Pratt, Sneyd Park, and M. A. B. Wrenford, née Pratt, Portsea, England. Railway signaling apparatus	604,711	May 31	2735	625	83	1215
Pratt, John E., assignor of six twenty-fifths to C. Churchill, Philadelphia, Pa. Bicycle	613,601	Nov. 1	686	158	85	747
Pray, Lewis, Noble, Iowa. Device for watering live stock	600,929	Mar. 22	2346	533	82	1718
Praytor, William W., Mount Pleasant, Tenn. Car-loader	600,448	Mar. 8	1501	343	82	1524
Preil, Oscar, assignor to Wheelless Induction Railway Company, Washington, D. C. Electric railway	611,271	Sept. 27	2065	476	84	1892
Prendergast, Daniel J., New York, N. Y., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Incandescent lamp or burner	597,430	Jan. 18	1681	390	82	360
Prendergast, Daniel J., New York, N. Y., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Street-lamp	597,546	Jan. 18	1879	436	82	399
Prendergast, William H., assignor of one-half to C. D. Kline, Savannah, Ga. Metallic packing	603,736	May 10	888	198	83	790
Prentiss, Junius P., Fall River, Mass., assignor to United States Counter Seat Supply Company, Portland, Me. Counter-seat	597,739	Jan. 25	2204	514	82	479
Prescott, Charles H., assignor of one-half to W. B. Hunt, Athens, Tenn. Boot or shoe stretcher	607,192	July 12	1044	225	84	218
Prescott, De Witt C. (See Libbey, Leon D., assignor.)						
Prescott, De Witt C., Duluth, Minn., assignor to York Structural Steel Company, New York, N. Y. Rolling apparatus	606,474	June 28	2677	616	83	1919
Prescott, Edwin, Arlington, Mass. Roller-coaster	609,164	Aug. 16	1862	444	84	1044
Prescott, Eugene A., Kingston, N. H. Ironing-board	602,267	Apr. 12	1177	258	83	237
Prescott, Frank C., Canton, N. Y. Carousel	603,432	May 3	326	73	83	662
Prescott, George W., Highland, Cal. Oil-burning locomotive	606,237	June 28	2238	514 515 516	83	1832
Prescott, George W., Highland, Cal. Burner for liquid hydrocarbons	606,238	June 28	2242	517 518	83	1832



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Prescott, George W., Highland, Cal. Burner for pulverized coal.....	606,239	June 28	2246	519 520	83	1833
Prescott, Henry W., Hyde Park, Mass. Combination-suit.....	599,110	Feb. 15	1775	422	82	974
Prescott, Robert W., Cleveland, Ohio. Atomizer.....	606,240	June 28	2249	520	83	1834
Prescott, Samuel A., Wilkinsonville, Mass. Brick-cleaning machine.....	601,676	Apr. 5	92	19	83	19
Prest, John E., Cohoes, N. Y. Spinning and twisting machine spindle.....	604,194	May 17	1778	401	83	996
Preston, A. M. (See Peebles, Samuel E., assignor.)						
Preston, Albert F., assignor to Busell Lasting Machine Company, Boston, Mass. Last- ing-machine.....	597,247	Jan. 11	1364	319	82	280
Preston, Albert F., Boston, Mass., assignor to Busell Lasting Machine Company, Nashua, N. H. Lasting-pincers.....	598,111	Feb. 1	71	16	82	616
Preston, Edward F., Allegheny, Pa. Smoke-bleacher and soot-trap.....	615,743	Dec. 13	959	222	85	1614
Preston, Edwin J., and A. B. Gill, assignors to J. Stone & Co., London, England. Dy- namo for electric-car-lighting systems.....	602,182	Apr. 12	1033	226 227	83	208
Preston, George W., Camden, N. J. Car-coupling.....	599,987	Mar. 1	568	131	82	1320
Preston, George W., Camden, N. J. Egg-tester.....	615,899	Dec. 13	1221	286	85	1664
Preston, John E., London, England. Apparatus for treating refractory ores.....	610,917	Sept. 20	1390	318	84	1745
Preston, William. (See Roberts, Charles W., assignor.)						
Preston, William, New York, N. Y. Railway-switch.....	611,844	Oct. 4	439	105	85	88
Preston, William C., Providence, assignor to J. B. Taft, Edgewood, R. I. Elevator safety attachment.....	611,332	Sept. 27	2174	502	84	1913
Prétot, Victor E., Paris, France. Self-propelling carriage.....	610,460	Sept. 6	596	133 134	84	1553
Pretsman, William, Greenville, Ohio. Tobacco-planter.....	615,744	Dec. 13	960	223	85	1614
Preussell, Frank W. (See Schaldenbrand, Joseph, assignor.)						
Prevot, Charles, Paris, France. Filtering apparatus.....	598,007	Jan. 25	2678	624 625	82	569
Prevost, Emmanuel. (See Thomas and Prevost.)						
Prevost, Emmanuel, Crefeld, Germany. Mercerizing.....	615,045	Nov. 29	3301	759	85	1316
Prewett, William, Cheriton, England. Reflector attachment for lamps or lanterns.....	606,027	June 21	1832	422	83	1735
Prewitt, William Q., Chicago, Ill. Mirror.....	610,918	Sept. 20	1391	318	84	1745
Price, Abraham E., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Pneumatic straw-stacker.....	614,979	Nov. 29	3177	731	85	1294
Price, Andrew M., Lincolnton, N. C. Stop mechanism for doubling and twisting ma- chines.....	604,500	May 24	2358	535	83	1124
Price, Benjamin, C. W. E. Marsh, and R. Laybourne, Newport, England. Tube-rolling mill.....	608,908	Aug. 9	1336	312 313	84	983
Price, Elmer, assignor of one-half to C. W. Miller, Kirklin, Ind. Corn-planter.....	608,221	Aug. 2	95	24	84	673
Price, George, Tottenville, N. Y. Juice-extractor.....	609,165	Aug. 16	1865	444	84	1045
Price, George B., Philadelphia, Pa. Bicycle-stand.....	596,541	Jan. 4	139	32	82	29
Price, George W., Taylorsville, N. C. Device for hanging clothes, &c., on lines.....	610,850	Sept. 13	1272	294	84	1706
Price Griffin Walker Company. (See Price and Griffin, assignors.)						
Price, James W. (See Sawyer and Price.)						
Price, Jesse V. (See Welton and Price.)						
Price, John. (See Hann, Bromley, Price, Smith, and Radclyffe.)						
Price, John B., Tuttle, Ky. Water raising and emptying device for wells.....	613,017	Oct. 25	2527	601	85	529
Price, John B., Wollaston, Mass., assignor to Manhattan Typewriter Company, of New Jersey. Carriage-feed mechanism for type-writing machines.....	606,940	July 5	534	117	84	106
Price, John J., San José, Cal. Awning attachment.....	600,270	Mar. 8	1216	276	82	1471
Price, John W., Belfast, Wash. Car-coupling.....	616,354	Dec. 20	2125	495	85	1860
Price, Raymond B., Cambridge, assignor to Boston Woven Hose and Rubber Company, Boston, Mass. Collapsible tube.....	614,410	Nov. 15	2117	487	85	1062
Price, Rufus L., et al. (See Deisher, John R., assignor.)						
Price, Samuel, Paterson, N. J. Keyboard telegraphic transmitter.....	597,689	Jan. 18	2120	496 497	82	445
Price, Theodore H. (See Hamerschlag and Price.)						
Price, Thomas J., Danville, Pa. Machine for making tubing.....	613,394	Nov. 1	322	74	85	678
Price, William F., and A. M. Griffin, assignors to Price Griffin Walker Company, Marys- ville, Kans. Rotary engine.....	612,868	Oct. 25	2294	547	85	482
Price, William M., Ellsworth, Iowa. Locomotive-coaling device.....	616,355	Dec. 20	2126	495	85	1860
Price, William W., Houston, Tex. Pressure-controlling valve mechanism for hydraulic presses.....	613,716	Nov. 8	875	203	85	803
Prichard, Anthony P., Tacoma, Wash. Metallic gate-screen.....	607,877	July 26	2510	532	84	539
Prichard, Charles F., New Britain, Conn. Faced brick.....	597,189	Jan. 11	1274	298	82	264
Prichard, George S., and J. W. Taylor, Goldsborough, N. C., assignors of one-fifteenth to J. E. Smith, Washington, D. C. Bag-stringing machine.....	602,915	Apr. 26	2298	524	83	481
Prichard, Wells H. (See Durant and Prichard.)						
Prickett, Edwin L., Mount Holly, N. J. Purse.....	597,325	Jan. 11	1491	348	82	307
Priddy, S. N. E. (See Marvin, Russell, assignor.)						
Pridham, Samuel S., Newark, N. J. Apparatus for recovering ammonium salts from refuse.....	609,122	Aug. 16	1795	428	84	1032
Pridmore, Edward. (See Farrall and Pridmore.)						
Pridmore, Edward, assignor to Johnston Harvester Company, Batavia, N. Y. Horse hay-rake.....	612,571	Oct. 18	1727	409	85	355
Pridmore, Henry E., Chicago, Ill. Cord-knotter for self-binding harvesters.....	604,336	May 17	2046	458	83	1047
Pridmore, Henry E., Chicago, Ill. Cord-knotting device.....	604,337	May 17	2050	459	83	1047
Pridmore, Henry E., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Grain-binder.....	601,609	Mar. 29	3510	800 801	82	1970
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Corn-harvesting machine.....	611,078	Sept. 20	1672	383 384 385	84	1798
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Machine for harvesting grain.....	611,079	Sept. 20	1679	385 386 387	84	1799
Pridmore, John W., Chicago, Ill. Grain-adjuster for harvesters.....	602,809	Apr. 19	2113	477	83	430
Pridmore, John W., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Mower.....	596,542	Jan. 4	140	32, 33	82	29
Pridmore, John W., and E. A. Johnston, Chicago, Ill., assignors to McCormick Harvest- ing Machine Company. Bundle-carrier for corn-binders.....	606,579	June 28	2871	661	83	1958
Priem, Paul, assignor to Firm of J. M. Voith, Heidenheim-on-the-Brenz, Germany. Pa- per-making machine.....	616,423	Dec. 20	2246	523	85	1884
Pries, Charles F. (See Tyler and Pries.)						
Pries, Herman. (See Williamson and Pries.)						
Priest, Albert W., Kaukauna, Wis. Pulp-grinder.....	616,728	Dec. 27	2841	658	85	2019
Priest, Eli T., Rising Star, Tex. Insect-destroyer.....	601,168	Mar. 22	2735	629	82	1792
Priest, James E., Detroit, Mich. Seal-lock.....	597,564	Jan. 18	1906	444	82	405



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Priest, William. (See Lloyd and Priest.)						
Priestley, Frank, Sioux Rapids, Iowa. Rotary engine.....	603,737	May 10	889	198	83	790
Priestman, Samuel. (See Priestman and Richardson.)						
Priestman, William D. and S., and H. Richardson, Hull, England. Igniter for hydrocar- bureted-air engines.....	614,889	Nov. 29	2988	685	85	1255
Prieto, Manuel, Mexico, Mexico. Car-coupling.....	600,209	Mar. 8	1104	252	82	1450
Prigge, Richard, Cologne, Germany. Stringed musical instrument.....	598,958	Feb. 15	1518	361 362	82	924
Prince, Clarence K., <i>et al.</i> (See Hawkes, Frank F., assignor.)						
Prince, John A., New York, N. Y. Automatic stop attachment for paper-embossing ma- chines.....	615,900	Dec. 13	1222	286	85	1664
Prindle, Frank M., <i>et al.</i> (See West, Wharton L., assignor.)						
Pring, John R., Shawnee, Okla. Ter. Washing-machine.....	609,627	Aug. 23	2740	637 638	84	1234
Pringle, Eugene, Gloversville, N. Y., assignor to M. D. Shipman, C. E. and S. E. Bradt, De Kalb, Ill. Separable button.....	600,114	Mar. 1	895	205	82	1389
Pringle, John N., Milledgeville, Pa. Brake-shoe.....	603,343	May 3	174	40	83	635
Pringle, Percival J., assignor of one-half to J. M. V. Money-Kent, London, England. Sup- ply system for electric railways.....	602,142	Apr. 12	953	209 210	83	193
Pringle, Robert, London, England. Gas-stove for cooking purposes, &c.....	605,011	May 31	3229	743	83	1311
Printing Telegraph News Company. (See Joy, John M., assignor.)						
Prinz, Faustin, Milwaukee, Wis. Smut-machine.....	600,319	Mar. 8	1285	293	82	1484
Prinz, William H., Austin, assignor to Saladin Pneumatic Malting Construction Com- pany, Chicago, Ill. Apparatus for drying malt.....	601,044	Mar. 22	2533	575 576	82	1753
Prinz, William H., Austin, assignor to Saladin Pneumatic Malting Construction Com- pany, Chicago, Ill. Apparatus for drying malt.....	605,012	May 31	3231	743 744	83	1311
Prior Cotton Gin Co. (See Prior, Matthew and T. W., assignors.)						
Prior, Matthew, Watertown, Mass., and T. W. Prior, assignors to Prior Cotton Gin Co., Philadelphia, Pa. Tire.....	611,272	Sept. 27	2068	476	84	1893
Prior, Thomas W. (See Prior, Matthew and T. W.)						
Prisk, John N., Johnstown, Pa. Trolley-pole.....	605,796	June 14	1359	311	83	1630
Prisk, John N., Johnstown, Pa. Trolley-pole.....	611,393	Sept. 27	2307	532	84	1937
Priskey, James, Pawtucket, R. I. Digester.....	605,828	June 14	1418	323	83	1641
Pritchard, Albert R., Rochester, N. Y. Vessel-handle.....	614,667	Nov. 22	2585	587	85	1161
Pritchette, Andrew B., Elizabeth, N. J. Garment-stretcher.....	606,737	July 5	178	40	84	36
Probasco, Abraham B., near Lebanon, Ohio. Wire fence.....	599,354	Feb. 22	2212	524	82	1077
Probert, Hubert F., Chicago, Ill. Electric igniter for explosive-engines.....	610,497	Sept. 6	674	151	84	1568
Probst, Edward, assignor of two-fifths to W. H. Hoff, Terre Haute, Ind. Rotary engine.....	597,431	Jan. 18	1683	390	82	360
Probst, John, Cleveland, Ohio. Wheel for bicycles.....						
Procházka, Ladislaus, Turnau, Austria-Hungary. Continuously-acting straining appa- ratus.....	614,498	Nov. 22	2284	523	85	1107
Proctor, James, Burnley, England. Coking-stoker.....	607,385	July 12	1405	300	84	288
Procurier, Henry E. (See Sewall and Procurier.)						
Prohaska, Anton, Philadelphia, Pa. Shears.....	602,360	Apr. 12	1331	296	83	268
Proks, Karel, Prague, assignor to Society Akciova Spolecnost Strojirny Drive Breitfeld, Danek & Spol, Karlin, Austria-Hungary. Frame for filters.....	607,952	July 26	2641	561	84	564
Proks, Karel, Prague, assignor to Society Akciova Spolecnost Strojirny Drive Breitfeld, Danek & Spol, Karlin, Austria-Hungary. Tubularly-strapped filter plate or sheet.....	607,953	July 26	2642	561	84	564
Propper, Albert H., New York, N. Y. Bag-fastener.....	608,909	Aug. 9	1340	313	84	934
Propst, Jacob Y., Stanton, Ala. Fence-post.....	615,304	Dec. 6	146	39	85	1441
Proskey, Winfield S., Jacksonville, Fla. Acetylene-gas generator.....	612,956	Oct. 25	2432	580	85	510
Prospecting Tool Co. (See Bradley, Otto, and Wolfe, assignors.)						
Prosser, Frank H., and S. F. Dorr, Antigo, Wis. Fire-lighter.....	602,871	Apr. 26	2217	503	83	466
Frost, Victor A., Mayenmoutier, France, assignor to J. W. Nasmith, Manchester, Eng- land. Steam-trap.....	608,384	Aug. 2	384	84	84	732
Proussaly, Athanase. (See Farrand, James W., assignor.)						
Prouty, George, Fort Edward, N. Y. Cuspidor-tongs.....	600,930	Mar. 22	2347	533	82	1718
Prouty, Theodore C., Midland, Mich. Ball-bearing roller for door-hangers.....	613,602	Nov. 1	687	158	85	747
Providence Knitting Machine Company. (See Burleigh, Joseph A., assignor.)						
Providence Optical Company. (See Greene, Albert L., assignor.)						
Prudden, David I., Morristown, N. J. Safety mechanism for elevators.....	607,271	July 12	1205	257 258	84	249
Prudot, Adolph J. (See King, George H., assignor.)						
Pruett, William W., Effingham, Ill. Draft-timber fastener.....	600,931	Mar. 22	2348	533	82	1718
Prussing, Alexander, <i>et al.</i> (See Dodge, Julian L., assignor.)						
Pryor, James L., New York, N. Y. Baby-carriage.....	611,937	Oct. 4	593	143	85	117
Pschorr, Max, Marxville, Wis. Spark-extinguisher.....	605,131	June 7	108	28	83	1372
Publishing, Advertising and Trading Syndicate. (See Annison, Frederick G., assignor.)						
Publishing, Advertising and Trading Syndicate. (See Oliver, Frederick W., assignor.)						
Puchmüller, Gerhard B., Schöneberg, Germany, assignor to Daylight Incandescent Mantle Company, Limited, London, England. Manufacture of fluid for impregnating fibers for incandescent lighting.....	609,702	Aug. 23	2862	-----	84	1257
Puchner, Sebastian, Weiden, and K. Schubert, Amberg, Germany. Adjustable table for etching glass.....	600,888	Mar. 22	2280	519 520	82	1706
Puckett, Silas H., Belgrade, Mo. Plow.....	600,801	Mar. 15	2127	486	82	1663
Pugh, Cortez V. (See Moore and Pugh.)						
Pugh, William J., assignor of two-thirds to F. X. Busch and A. Clauss, Chicago, Ill. Op- erating signal-curtains on locomotive-headlights.....	608,559	Aug. 2	690	157	84	792
Pugh, William J., assignor of two-thirds to W. N. Wallace, J. H. Vail, and W. L. John- son, Muscatine, Iowa. Bicycle.....	598,058	Jan. 25	2755	642 643	82	585
Pugh, William J., Muscatine, Iowa, assignor to Walter Automatic Air Coupler Com- pany, Charleston, W. Va. Automatic air and steam brake coupling.....	601,905	Apr. 5	543	112 113	83	103
Pugsley, William E., assignor of one-half to F. A. Boehmer and N. Rummons, Lincoln, Nebr. Wrench.....	596,825	Jan. 4	652	150	82	126
Pugsley, William E., assignor of one-half to C. P. Dill, Lincoln, Nebr. Hat-fastener.....	600,320	Mar. 8	1287	294	82	1485
Pulbrook, Anthony, London, England. Inflatable tire.....	601,325	Mar. 29	3051	-----	82	1880
Pulcher, Camielle, Murphysborough, Ill. Cloth-measuring device.....	601,277	Mar. 29	2966	670	82	1864
Pulcher, Camielle, assignor of one-half to A. Butz, Murphysborough, Ill. Pneumatic- tire pump.....	604,787	May 31	2864	654	83	1239
Pulhemus, Frank A., and L. C. Walter, Hopkins Station, Mich. Machine for cleaning dust or dirt out of type-cases.....	612,137	Oct. 11	966	234	85	199
Pullen, William, Birmingham, England. Blowpipe-lamp for plumbers or painters.....	612,272	Oct. 11	1208	289	85	244
Pullen, William, Birmingham, England. Self-heating soldering-iron.....	613,396	Nov. 1	335	76, 77	85	679
Pullman, Herbert S., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bicycle-bell.....	608,478	Aug. 2	553	123	84	765
Pullman, John, assignor to G. B. Winter and F. J. Stohwasser, London, England. Gaiter or covering for the legs.....	607,272	July 12	1207	258	84	249



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Pullman's Palace Car Company. (See Campbell, John, assignor.)						
Pulver, Andrew J., assignor of one-half to H. W. Fisk, Milan, Ohio. Furnace	601,983	Apr. 5	692	147	83	131
Pungs, William A., Detroit, Mich. Brake-beam	606,298	June 28	2354	544	83	1857
Purcell, Henry. (See Bokelmann, Herman H., assignor.)						
Purchase, William T., Boston, Mass. Fog-signal	615,228	Nov. 29	3672	841	85	1389
Purdin, Mahlon, Medford, Oreg. Machine for making paper toothpicks	596,714	Jan. 4	458	104	82	89
Purdy, Charles H., Lynbrook, N. Y. Combined hoe and edge-trimmer	607,273	July 12	1209	258	84	249
Purdy, Frederick, Chicago, Ill. Foot-power mechanism	613,717	Nov. 8	877	203	85	803
Purdy, Percival J., Manchester, England. Apparatus for reseating valves, boring cylinders, &c	603,577	May 3	605	134	83	718
Purdy, Percival J., Manchester, England. Apparatus for reseating valves, boring cylinders, &c	605,810	June 14	1382	317	83	1634
Purdy, Silas C., Atkinson, Nebr. Buckle	598,112	Feb. 1	72	17	82	616
Purdy, Walter, Somerset, Pa. Device for sharpening edged tools	609,367	Aug. 16	2234	528	84	1119
Pure Aluminium and Chemical Company. (See Blackmore, Henry S., assignor.)						
Puritan Lasting Machine Company. (See King, Charles W., assignor.)						
Pusey, Joshua, Lima, Pa. Parallel pliers	597,740	Jan. 25	2205	515	82	480
Pusey, Joshua, Lima, Pa. Wrench	597,741	Jan. 25	2207	515	82	480
Pusey, Joshua, near Lima, Pa. Cord-cutter	601,278	Mar. 29	2967	671	82	1865
Pusey, Joshua, Lima, Pa. Parcel handle or carrier	609,946	Aug. 30	3276	764	84	1352
Pusey, Joshua, Lima, Pa. Coin holder or wrapper	609,947	Aug. 30	3277	764	84	1352
Puskás, Karl, Kisujszallas, Austria-Hungary. Seeding-machine	606,475	June 28	2678	617	83	1920
Pusterla, Attilio, New York, N. Y. Illusion apparatus	608,413	Aug. 2	443	98.99	84	744
Putman, John, Lovington, Ill. Rotary engine	600,321	Mar. 8	1288	294	82	1485
Putman, Warren, assignor of two-fifths to E. Rothman and L. C. Curfman, Gloucester, Ohio. Scrubbing-brush holder	598,008	Jan. 25	2680	625	82	569
Putnam, George L., and C. H. Farmer, New York, N. Y. Magazine bolt-gun	609,211	Aug. 16	1940	461 462 463	84	1059
Putnam Nail Company. (See Williams, Henry A., assignor.)						
Putnam, Samuel J., Prince's Bay, N. Y. Toe-clip for pedals	600,170	Mar. 8	1047	236	82	1439
Putnam, William H., Litchfield, Ill. Nut-lock	613,777	Nov. 8	991	226	85	825
Putnam, William P. (See Currier, Alfred, assignor.)						
Putt, Harry M. (See Smith and Putt.)						
Pycroft, Henry T., Parnell, New Zealand. Game apparatus	603,539	May 3	552	121	83	707
Pycroft, Henry T., Parnell, New Zealand. Game apparatus	611,868	Oct. 4	482	117	85	96
Pycroft, Henry T., Auckland, New Zealand. Curtain-tassel attachment	603,540	May 3	554	122	83	707
Pym, Charles F., Windsor, Canada. Last	608,006	July 26	2756	585	84	589
Pyott, Louis T., Philadelphia, Pa. Side-entrance convertible street-car	597,512	Jan. 18	1831	423 424	82	390
Pyott, Louis T., Philadelphia, Pa. Means for supporting electric motors	611,273	Sept. 27	2070	477	84	1893
Pyron, John A., Chester, Ill. Printing and folding machine	614,980	Nov. 29	3178	731 732	85	1294
Quackenbush, Henry M., assignor to M. A. Deimel, Herkimer, N. Y. Smoke-consuming apparatus	609,628	Aug. 23	2742	638	84	1234
Quain, John R. (See Dunlap and Quain.)						
Quandt, Albert C., et al. (See Reagan, Dominick A., assignor.)						
Quarelli, Peter, assignor of one-half to E. Longhi, Chicago, Ill. Monkey-wrench	598,487	Feb. 1	711	172	82	737
Quarry, William J., Newport, Ky. Detachable foot for screens, &c	604,215	May 17	1814	407	83	1002
Quast, Charles, Marion, Ohio. Gas-engine	597,326	Jan. 11	1493	349	82	307
Quast, Charles, Marion, Ohio. Gas-engine	607,878	July 26	2512	533	84	539
Quast, Charles, Bucyrus, Ohio. Gas-engine	607,879	July 26	2515	533	84	540
Quednow, Frederick, Clementon, N. J. Stamp-affixer	606,791	July 5	297	61.62	84	59
Quennoy, Etienne, assignor to H. E. Couzineau, Lille, France. Cliché for printing patterns	603,578	May 3	605	135	83	719
Quentell, William P., New York, N. Y. Type-writer	607,193	July 12	1045	225 226	84	218
Quentell, William P., New York, N. Y. Type-writing machine	607,274	July 12	1210	258 259	84	250
Quentell, William P., New York, N. Y. Type-writing machine	611,146	Sept. 20	1813	417 418	84	1825
Quick, Stephen P., Johannesburg, South African Republic. Machine for shaping or forging and sharpening rock-drills, &c	606,390	June 28	2527	586	83	1889
Quicksall, William H. (See Williams and Quicksall.)						
Quidas, Frederick W., Mount Washington, assignor of one-half to E. A. Griffith, Baltimore, Md. Electric radiator	606,792	July 5	299	62	84	60
Quiggin, Daniel A., Blundellsands, England. Filter for feed-water for steam-generators	611,507	Sept. 27	2511	580	84	1976
Quigley, John, Blossburg, Pa. Carrier or holder	610,870	Sept. 13	1313	302	84	1715
Quigley, Patrick S., Brimson, Minn. Switch	612,273	Oct. 11	1210	289	85	244
Quimby, William P., Gettysburg, Pa. Type-writing machine	613,603	Nov. 1	688	159	85	747
Quinan, Clarence, Pinole, Cal. Making guncotton	597,565	Jan. 18	1907		82	405
Quinby, Winfield S., Brookline, Mass. Machine for forming plastic materials	613,306	Nov. 1	145	34	85	645
Quincey, Richard, El Paso, Tex. Hame-strap	603,987	May 10	1333	305	83	876
Quincy, Charles F. (See Magney, Joseph P., assignor.)						
Quincy, Josiah. (See Bélanger, Victor, assignor.)						
Quinn, Frederick, Oliver, Ill. Valve-reversing gear	606,358	June 28	2473	574	83	1879
Quinn, Jeremiah F., Grand Rapids, Mich. Mechanical toy	608,794	Aug. 9	1109	256	84	891
Quinn, Martin, Black Rock, Ark. Combination cooking and heating stove	611,938	Oct. 4	594	144	85	117
Quinn, Martin F., Straight, Pa. Apparatus for manufacturing calcium acetate	596,826	Jan. 4	653	150	82	126
Quinn, Martin F., Straight, Pa. Apparatus for manufacturing wood-alcohol	611,508	Sept. 27	2513	580 581	84	1976
Quinn, Martin F., Straight, Pa. Kiln for acetate of lime	596,827	Jan. 4	654	151	82	126
Quinn, Patrick F., Somerville, Mass. Seat or cushion	611,274	Sept. 27	2072	477	84	1894
Quinn, William, Fall River, Mass. Paint-distributor	609,047	Aug. 16	1646	392	84	1006
Quinsler, George J., Brookline, and G. W. McNear, Auburndale, Mass. Buggy-top side light	607,705	July 19	2163	455	84	454
Quist, Charles. (See Quist, John and C.)						
Quist, John and C., Mystic, Iowa. Foot-propelled boat	596,685	Jan. 4	401	91	82	80
Quortrup, August, Richmond Hill, N. Y. Manifold sales-book	598,255	Feb. 1	322	74	82	663
R. A. Lister & Company. (See Stokes, Alfred W., assignor.)						
R. E. Dietz Company et al. (See Betts, Charles L., assignor.)						
R. Thomas & Sons Company. (See Boch, John W., assignor.)						
Raab, Carl D., Kaiserslautern, Germany. Electric meter	598,208	Feb. 1	246	55	82	649
Raab, Carl D., Kaiserslautern, Germany. Electric meter	598,209	Feb. 1	249	55	82	649
Raab, Carl D., Kaiserslautern, Germany. Electric meter	599,046	Feb. 15	1670	395	82	955
Raab, Carl D., Kaiserslautern, Germany. Motor-wattmeter	604,501	May 24	2361	535	83	1125



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Raab, John B., assignor to W. P. Callahan & Co., Dayton, Ohio. Oil-filter .....	604,568	May 24	2485	565	83	1148
Rabbi, Francis W., and R. C. W. Lett, Ottawa, Canada. Device for bluing clothes .....	600,953	Mar. 22	2380	566	82	1725
Rabidge, Parnell, Sydney, New South Wales. Indicator-signal .....	613,778	Nov. 8	992	542	85	826
Raburn, Hiner. (See Drysdale and Raburn.)				226		
Raby, Richard, assignor to J. Campbell and W. H. Heckendorn, Harrisburg, Pa. Lift- ing-jack .....	615,745	Dec. 13	963	223	85	1614
Rachels, Jasper N., assignor to M. Woffard and M. M. Rachels, Judsonia, Ark. Spoke and felly adjuster .....	602,268	Apr. 12	1178	259	83	237
Rachels, Mary M., <i>et al.</i> (See Rachels, Jasper N., assignor.)						
Racich, Jacob, New York, N. Y. Ratchet-drill .....	596,910	Jan. 4	786	185	82	153
Raczek, Paul, Brooklyn, assignor to J. S. Leng's Son & Co., New York, N. Y. Veloci- pede-handle .....	604,216	May 17	1815	408	83	1002
Radcliffe, Charles, Newark, N. J. Button .....	610,662	Sept. 13	942	219	84	1639
Radcliffe, George F., and J. C. Slutz, Kansas City, Kans. Car-fender .....	600,596	Mar. 15	1786	409	82	1598
Radclyffe, Dick E. (See Hann, Bromley, Price, Smith, and Radclyffe.)						
Radel, Andrew. (See Bowen, John, assignor.)						
Rademann, Paul N., Davenport, Iowa. Window-shade-bracket holder .....	606,299	June 28	2355	545	83	1857
Rader, William E. (See Tandy and Rader.)						
Radgesky, Lewis D. (See Twist, Joseph F., assignor.)						
Rae, Julio H., Philadelphia, Pa. Amalgamator and distributor .....	613,718	Nov. 8	879	204	85	804
Rae, Julio H., Philadelphia, Pa. Amalgamator and distributor .....	615,046	Nov. 29	3303	759	85	1316
Rae, Julio H., Philadelphia, Pa. Concentrator and distributor .....	616,140	Dec. 20	1714	398	85	1775
Raenhart, Francis A., Helena, Ark. Gate-latch .....	602,520	Apr. 19	1606	367	83	335
Raetzell, Hermann, Berlin, Germany. Drum for germinating and drying malt .....	614,499	Nov. 22	2285	523	85	1107
Ragsdale, William A., Greenville, Miss. Scouring device for cotton-seed .....	601,169	Mar. 22	2737	629	82	1702
Ragsdale, William A., assignor of one-half to O. A. Pollock, Greenville, Miss. Cotton- seed-delinting machine .....	597,327	Jan. 11	1496	349	82	308
Rahn, Herman, New York, N. Y. Sight for blow-guns .....	613,823	Nov. 8	1075	244	85	841
Rahn, Max, Berlin, Germany. Show-stand .....	603,203	Apr. 26	2785	635	83	574
Raiguel, Edgar M., Philadelphia, Pa. Valve-stopper for bottles .....	608,271	Aug. 2	176	42	84	689
Rainbow, Fred L., assignor to Illinois Refrigerator Company, Morrison, Ill. School-seat .....	607,275	July 12	1214	259	84	251
Rainey, Equieller B., assignor of one-half to W. C. Cross, Glory, Tex. Fertilizer-dis- tributer .....	611,134	Sept. 20	1872	432	84	1837
Rains, Lafayette, Greenfield, Ohio. Hoe .....	607,880	July 26	2517	533	84	540
Raisch, Harry J., assignor to B. J. Parker and G. X. Wendling, San Francisco, Cal. Com- bined car brake and fender .....	613,719	Nov. 8	880	204	85	804
Raistrick, John, Jamestown, N. Y. Spooling-machine .....	608,713	Aug. 9	978	225	84	867
Raiza, William J., and A. Souther, Bluffdale, Tex. Oliver .....	616,488	Dec. 27	2383	552	85	1931
Rakestraw, Roland, Wyoming, Ill. Rotary harrow .....	606,300	June 28	2356	545	83	1857
Rakestraw, Thomas G., <i>et al.</i> (See Schneider, John A., assignor.)						
Rakov, Harmon, Buffalo, N. Y. Excavating-tool .....	603,858	May 10	1126	253	83	835
Rakovsky, Abraham, assignor to C. Berg, Vienna, Austria-Hungary Soap-bubble-blow- ing doll .....	612,121	Oct. 11	947	229	85	195
Raky, Anton, Rupprechtsau, Germany. Lowering device for rods of boring apparatus .....	616,586	Dec. 27	2549	589	85	1961
Ralf, Frederick T. (See Schneider, William H., assignor.)				590		
Ralph, Thomas, <i>et al.</i> (See Moore, William G., assignor.)						
Ralph, William, <i>et al.</i> (See Moore, William G., assignor.)						
Ralston, Leander D., Lawrence, Ohio. Railway-gate .....	600,932	Mar. 22	2349	533	82	1718
Ralston, Samuel H., Norristown, Pa. Die for forging solid-metal car-wheels .....	602,196	Apr. 12	1061	534	83	213
Ramage, Alexander S., assignor to J. Black, Cleveland, Ohio. Ozonizing apparatus .....	614,500	Nov. 22	2286	524	85	1107
Ramage, Joseph, assignor of one-third to C. F. Goodenough, Wrightsborough, Tex. Ve- hicle-brake .....	610,974	Sept. 20	1490	340	84	1764
Ramage, Lawson, Holyoke, Mass. Cut-off for gas-jets .....	605,132	June 7	109	28	83	1372
Rambaud, Jean A., assignor to Compagnie Internationale des Procédés Adolphe Seigle, Paris, France. Apparatus for heating by means of liquid hydrocarbons .....	603,658	May 10	762	169	83	765
Rambo, Alexander, Sr. (See Johnson, Edward J., assignor.)						
Rambo, James R., Pulaski, Tenn. Bolt-cutter .....	598,439	Feb. 1	638	157	82	724
Ramey, William R., Waverly, Kans. Watchcase-pendant .....	609,462	Aug. 23	2415	566	84	1173
Ramion, Matilda E. (See Ramion, Peter J., assignor.)						
Ramion, Matilda E., <i>et al.</i> (See Singleton, George W., assignor.)						
Ramion, Peter J., <i>et al.</i> (See Singleton, George W., assignor.)						
Ramion, Peter J., assignor to M. E. Ramion, Syracuse, N. Y. Railway-frog .....	612,363	Oct. 11	1368	331	85	274
Ramoser, Albert, Berlin, Germany. Automatic gas-igniter .....	612,177	Oct. 11	1037	332	85	212
Ramos, Cayetano S., New York, N. Y. Fire-escape .....	610,562	Sept. 13	785	178	84	1605
Rampe, Frank B. (See Kendrick, Matthew B., assignor.)				179		
Ramsay, Frederick E., Walsenburg, Colo. Direct-current regulator .....	610,413	Sept. 6	518	113	84	1538
Ramsay, Robert, Erie, Pa. Gear-case for bicycles .....	613,469	Nov. 1	455	104	85	703
Ramsdell, Fred H., Melrose, assignor of one-half to G. E. Mitchell, Medford, Mass. Pis- ton-packing .....	607,077	July 12	826	180	84	179
Ramsey, Robert H., Philadelphia, Pa. Bicycle-pedal .....	616,489	Dec. 27	2336	553	85	1932
Ramsey, William R., Keno, Oreg. Coffee-roaster .....	603,923	May 10	1238	281	83	856
Rand, George D. (See Kollmyer, John A., assignor.)						
Rand, McNally & Company. (See Bowen, James A., assignor.)						
Randall, Charles L., Lynn, Mass. Indian club .....	596,543	Jan. 4	144	33	82	30
Randall & Co. (See Randall, Silas H., assignor.)						
Randall, John H., Ayrshire, assignor of one-half to J. H. Godden, Emmetsburg, Iowa. Finger and stationary blade for mowing-machines .....	616,631	Dec. 27	2630	609	85	1976
Randall, Sherman A., Honeoyo Falls, N. Y. Back-pedaling brake .....	611,147	Sept. 20	1818	418	84	1826
Randall, Silas H., Wyoming, assignor to Randall & Co., Cincinnati, Ohio. Horse-collar stuffer .....	615,746	Dec. 13	964	223	85	1615
Randleff, Carl H. B., assignor to R. C. White, trustee, St. Paul, Minn. Heating-drum for lamps .....	611,509	Sept. 27	2515	581	84	1977
Randolph, Arthellow M., Elgin, Ill., assignor of one-third to D. Pool, St. Paul, Minn. Pneumatic concentrator .....	614,501	Nov. 22	2287	524	85	1107
Randolph, Elmer E., and H. L. McCoy, Manito, Ill. Time-recorder .....	609,906	Aug. 30	3201	751	84	1338
Randolph, Ira F., Chicago, Ill. Bicycle .....	615,901	Dec. 13	1224	287	85	1664
Randolph, Jackson F. (See Carroll and Wentworth, assignors.)						
Randolph, John H., Baton Rouge, La. Horse-rake .....	610,663	Sept. 13	943	219	84	1640
Randolph, Leonard M., Newark, N. J. Railway-switch .....	612,435	Oct. 18	1488	359	85	310



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Randolph, Stephen T., Covington, Ind. Ball-bearing	606,241	June 28	2250	520	83	1834
Randolph, William J., Jennings, La. Pneumatic straw-stacker	597,364	Jan. 11	1563	364 365	82	321
Raney, James L., Toronto, Ohio. Pipe trimmer and cutter	610,829	Sept. 13	1240	285 286	84	1699
Range, John W., assignor to Consolidated Car Fender Company, Providence, R. I. Car-fender	607,954	July 26	2642	561	84	564
Rankin, Hiram F., assignor of one-half to T. W. A. Lindsay, Ottawa, Canada. Reclining-chair	602,197	Apr. 12	1063	233	83	214
Rankin, James M., New York, N. Y., assignor, by mesne assignments, to Dubois Cushion Tire Company. Wheel for vehicles	613,307	Nov. 1	147	34	85	646
Rankin, John E. (See Weatherston and Rankin.)						
Rankin, John R., Washington, D. C. Type-case	613,308	Nov. 1	148	34	85	646
Rankin, Ransom F., Philadelphia, Pa. Welsbach or other incandescent light	600,090	Mar. 1	850	195	82	1380
Rankin, Thomas L., Sackett's Harbor, N. Y., assignor to Regolation Ice Machine Company, Alexandria, Va. Ice-making apparatus	607,764	July 19	2250	475 476	84	472
Rankin, Thomas L., Sackett's Harbor, N. Y., assignor to Regolation Ice Machine Company, Alexandria, Va. Ice-making apparatus	607,765	July 19	2253	476	84	473
Ransdell, French E., et al. (See Tyler, William E., assignor.)						
Ransom, Henry C. (See Bird, Charles S., assignor.)						
Ransom, Paul D., et al. (See Perkins, George E., assignor.)						
Rantala, August, Navarro, Cal. Washboiler attachment	612,788	Oct. 18	2123	506	85	432
Rapp, Frank R., Easton, Pa. Car-coupling	603,204	Apr. 26	2786	635	83	574
Rapp, Gustav A., Hudson, N. Y. String-case	607,130	July 12	930	202	84	198
Rapp, John G. (See Smith and Rapp.)						
Rapp, John W., New York, N. Y. Building-block	599,864	Mar. 1	364	82	82	1282
Rapp, John W., New York, N. Y. Bracket	601,279	Mar. 29	2968	671	82	1865
Rappleve, Hannibal W., Philadelphia, Pa. Method of and apparatus for condensing fumes or gases	601,677	Apr. 5	94	19	83	20
Rasmussen, Charles B. H. (See Rasmussen, Julius A. N. and C. B. H.)						
Rasmussen, Julius A. N. and C. B. H., Copenhagen, Denmark. Driving-gear for chain-less cycles	616,559	Dec. 27	2510	580	85	1955
Rasmussen, Peter, Copenhagen, Denmark. Stair-cover	607,457	July 19	1541	327	84	330
Rasmussen, R. K. (See Helgeson, Martin and O., assignors.)						
Rasner, Abraham, Pittsburg, Pa. Window frame and sash	615,047	Nov. 29	3306	760	85	1317
Raster Carbon Rheostat Company. (See Raster, Edwin O., assignor.)						
Raster, Edwin O., assignor to Raster Carbon Rheostat Company, Chicago, Ill. Rheostat	612,212	Oct. 11	1092	262 263	85	223
Ratchford, Nicholas, Greenville, Ohio. Nut-lock	611,976	Oct. 4	662	160	85	129
Rathbone, John A., assignor to United States Heater Company, Detroit, Mich. Water-heater	603,409	May 3	287	64	83	655
Rathbone, Sard & Company. (See Van Buren, Jafew S., assignor.)						
Rathbun Manufacturing Company. (See Hawley, Delia K., assignor.)						
Rathburn, Christopher C. (See Collier and Rathburn.)						
Ratisseau, William L., Galveston, Tex. Gas-machine	613,720	Nov. 8	881	204	85	805
Rattek, Frank, Denver, Colo. Dust-guard for axle-boxes	610,147	Aug. 30	3612	839	84	1420
Ratzinger, Ludwig, et al. (See Graf, Carl, assignor.)						
Rau, Henry M., New York, N. Y. Extracting tannic acid	601,170	Mar. 22	2739	-----	82	1793
Rau, John, Fairmount, Ind. Stopper for bottles or jars	615,305	Dec. 6	147	39	85	1442
Raub, Joseph M., et al. (See Spooore, Ransom R., assignor.)						
Rauber, Adolph, Munich, Germany. Baker's oven	611,394	Sept. 27	2308	532	84	1937
Rauch, Henry, New York, N. Y. Coin-controlled apparatus for vending aerated liquids	599,355	Feb. 22	2214	525	82	1077
Rauch, Henry, New York, N. Y. Cask-pitching apparatus	599,476	Feb. 22	2460	579	82	1126
Rauch, Henry, New York, N. Y. Apparatus for pitching casks	616,632	Dec. 27	2632	609	85	1976
Raudabaugh, Joshua R. (See Raudabaugh, William A. and J. R.)						
Raudabaugh, William A., Pleasant Hill, and J. R. Raudabaugh, Celina, Ohio. Pulverizer	610,919	Sept. 20	1392	319	84	1745
Rauh, Leopold, and D. McNeal, assignors to Egry Autographic Register Company, Dayton, Ohio. Autographic register	615,306	Dec. 6	148	39	85	1442
Rauhoff, John M., assignor of one-half to T. K. Hendrie, Chicago, Ill. Worm and worm-gear	597,154	Jan. 11	1219	286	82	253
Raus, Erasmus, Cleveland, Ohio. Chin-support and eye-closer for the dead	599,731	Mar. 1	90	22	82	1233
Rausch, John A., St. Louis, Mo. Nut-lock	609,241	Aug. 16	2017	478	84	1077
Rausch, Rudolf, assignor of two-thirds to F. Kohn and L. Blauhorn, Vienna, Austria-Hungary. Bicycle-brake	603,706	May 10	843	186	83	781
Rauscher, John J., and C. H. Clark, Cleveland, Ohio. Machine for driving screws under water	599,011	Feb. 15	1606	381 382	82	941
Ravenéz, Louis W., assignor to Société Nouvelle des Établissements Decauville Aîné, Paris, France. Electric ignition device for internal-combustion engines	613,309	Nov. 1	149	34	85	646
Ravitch, Michael L. (See Kastle, Ravitch, and Lowenhart.)						
Rawdon, George L., Cleveland, Ohio. Cuff-button	598,643	Feb. 8	986	238	82	807
Rawley, William C., assignor to American Faucet Company, San Francisco, Cal. Bushing and faucet for barrels	605,612	June 14	1012	233	83	1566
Rawlins, John H., Chester, Pa. Traverse-bar-actuating mechanism for spinning machinery	614,576	Nov. 22	2409	550	85	1130
Rawlinson, Daniel H. (See De Ramus, William G., assignor.)						
Rawls, William L., Jones' Station, Tenn. Burglar-alarm	608,145	July 26	2976	639	84	632
Raworth, John S., London, England. Packing-ring	615,902	Dec. 13	1225	287	85	1664
Rawson, Walter. (See Parsons and Rawson.)						
Rawson, William S., London, England. Apparatus for electrically coating wire	611,148	Sept. 20	1819	418 419	84	1827
Ray, Albert H., Ashland, Mass. Printing-machine	607,131	July 12	932	202 203	84	198
Ray, Forest A., Boston, Mass. Telephone-transmitter	605,913	June 21	1610	371	83	1697
Ray, Miles H. (See Newhall and Ray.)						
Ray, William F., Cincinnati, Ohio. Water heater or condenser	602,521	Apr. 19	1607	368	83	335
Raymond, Albert. (See King and Raymond.)						
Raymond, Billings H., assignor of three-eighths to G. C. Darwin, Detroit, Mich. Device for preventing refilling vessels	604,700	May 24	2713	620	83	1192
Raymond, Charles H., New Haven, Conn. Sash-fastener	610,369	Sept. 6	444	96	84	1523
Raymond, Charles L., Jr., New Orleans, La. Bicycle-support	609,295	Aug. 16	2118	502	84	1096
Raymond, Francis W. (See Doulin and Raymond.)						
Raymond, Frederick, Sedalia, Mo. Cartridge loading and crimping machine	602,143	Apr. 12	963	210 211	83	194
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass, trustees. Heel-compressing machine	598,256	Feb. 1	326	74, 75	82	663



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Raymond, Freeborn F., 2d., Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass. trustees. Heel-nailing machine	599,012	Feb. 15	1610	382	82	942
Raymond, Harry E., Norwalk, Conn. Can-opener	613,076	Oct. 25	2628	383 622	85	550
Raymond, James P., Cincinnati, assignor to M. A. Raymond, Wyoming, Ohio. Paper-bag closure	598,440	Feb. 1	639	157	82	724
Raymond, Jean M., Paris, France, assignor to F. G. Bates, Philadelphia, Pa. Composition for extinguishing fires	600,802	Mar. 15	2128	-----	82	1664
Raymond, John H. (See Copcutt, Frederick W., assignor.)						
Raymond, John M., and L. E. Lemley, assignors of one-third to W. T. Coats, New Orleans, La. Acetylene-gas generator	603,205	Apr. 26	2786	636	83	574
Raymond, Mary A. (See Raymond, James P., assignor.)						
Raymond, Pierre A., Grenoble, France, assignor to Consolidated Fastener Company, Portland, Me. Fastener	598,576	Feb. 8	873	209	82	786
Raynaud, François, Tessenderloo, assignor to Compagnie Générale l'Alumine, Société Anonyme, Brussels, Belgium. Making aluminium-sodium chlorid	599,111	Feb. 15	1775	-----	82	954
Raynaud, François, Tessenderloo, assignor to Compagnie Générale l'Alumine, Exploitation des Brevets F. Raynaud, Société Anonyme, Brussels, Belgium. Making alkaline aluminates	612,364	Oct. 11	1371	-----	85	275
Razall, Henry G., Milwaukee, Wis. Loose-leaf ledger	612,436	Oct. 18	1489	359	85	311
Read, Charles C., <i>et al.</i> , executors. (See Smith, Chauncy.)						
Read, Charles H. (See Hendrickson and Read.)						
Read, Edward T. (See Griffiths and Read.)						
Read, Frederic, Brooklyn, N. Y. Handle	605,745	June 14	1244	288	83	1609
Read, George F., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Web-cutting mechanism	608,624	Aug. 9	812	188 189	84	834
Read Holliday & Sons. (See Kelly, Charles, assignor.)						
Read, Harry V. R., London, England. Stopper for discharge of aerating capsules	602,269	Apr. 12	1179	259	83	237
Read, Harry V. R., London, England. Capsule or receiver for containing liquefied or highly-compressed gases	614,131	Nov. 15	1594	365	85	965
Read, Walter C., Oakland, Cal., assignor to Clinch Broom Manufacturing Company, of California. Brush-machine	596,715	Jan. 4	460	104 105 106	82	90
Read, Walter C., Oakland, assignor to Clinch Broom Manufacturing Company, San Francisco, Cal. Brush-machine	596,716	Jan. 4	464	106	82	90
Read, Walter G., Colusa, Cal. Almond-huller	613,867	Nov. 8	1150	264	85	855
Reade, Mellard T., Liverpool, England. Collapsible boat	605,513	June 14	828	192 193	83	1532
Reading Crane and Hoist Works. (See Kincaid, Joseph W., assignor.)						
Reading Cycle Company. (See Brown, James G., assignor.)						
Reading, Edward H., <i>et al.</i> (See Schwechler, John, assignor.)						
Ready, Thomas A., New York, N. Y. Fire-battery	599,195	Feb. 15	1911	452	82	997
Reagan, Dominick A., assignor of part to M. J. Buck, A. V. Dively, J. T. Baltzell, A. P. Sharp, F. Bendheim, A. W. Cherry, W. T. Shomberg, A. C. Quandt, A. Claycomb, J. Reagan, Altoona, and A. Wise, Philadelphia, Pa. Steam-boiler safety device	600,271	Mar. 8	1217	276	82	1471
Reagan, James, Philadelphia, Pa. Chopper or agitator for shaking-grates	598,392	Feb. 1	547	133	82	706
Reagan, James, Philadelphia, Pa. Indestructible block for boiler-furnaces	605,797	June 14	1361	312	83	1631
Reagan, John, <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Harrow	609,242	Aug. 16	2018	478	84	1077
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Plow attachment	614,981	Nov. 29	3183	732	85	1295
Reama, Washington H., assignor to Springfield Silver Plate Company, Springfield, Ohio. Casket-truck	614,623	Nov. 22	2500	571	85	1145
Reardon, James A., assignor of two-thirds to J. H. Butterell and P. Hessel, St. Louis, Mo. Steam-engine	604,415	May 24	2190	490 491	83	1095
Reardon, Patrick H., San Francisco, Cal. Hose-attaching device for rock-drills	607,955	July 26	2643	561	84	564
Reaser, Arthur A., Lincoln, Nebr. Paper or bill file	616,490	Dec. 27	2388	553	85	1932
Reasons, Ross T., Hopkinsville, Ky. Transplanter	601,984	Apr. 5	694	147	83	131
Reavil, John B. (See Hale, Deas, and Reavil.)						
Reber, Aaron H., Strausstown, Pa. Steering mechanism for traction-engines	616,257	Dec. 20	1943	451	85	1823
Reber, James C., Reading, Pa. Antifriction-bearing	607,790	July 19	2302	486	84	481
Recht, Frederick. (See Morningstar, Benjamin F., assignor.)						
Rechtsteiner, Frank S., Dayton, Ohio. Ball-caster	600,172	Mar. 8	1049	236	82	1439
Record, George J., Conneaut, Ohio. Crate and box for cans	601,326	Mar. 29	3052	688	82	1880
Record, George J., Conneaut, Ohio. Pail and package	604,078	May 17	1566	350	83	954
Record, George J., Conneaut, Ohio. Device for closing cans or other receptacles	604,079	May 17	1567	351	83	954
Rector, James A., Lancaster, Mo. Creaming-can	611,275	Sept. 27	2075	477	84	1895
Red Cross Cement and Rubber Company. (See Rein, Bernard, assignor.)						
Red Cross Hygienic Company. (See Evetts, James, assignor.)						
Redding, James P., Jr., Cherry Lake, Fla. Bottle	599,916	Mar. 1	460	103	82	1301
Redding, William H. (See Wyman and Redding.)						
Redding, William H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom for cross-weaving	603,287	May 3	73	19	83	615
Redfield, Charles T., Glen Haven, N. Y. Antirattling nut-locking device for thill-couplings	606,085	June 21	1950	449	83	1758
Redfield, Edgar P. (See Chase and Redfield.)						
Redfield, Lewis H., Syracuse, N. Y. Key-fastener	597,547	Jan. 18	1883	436	82	401
Redgrave, Montague, Jersey City, N. J. Bagatelle-board	603,738	May 10	891	198	83	790
Redhead, Henry, and G. W. Emmerson, Newcastle-upon-Tyne, England. Composition for making tight joints	616,560	Dec. 27	2511	-----	85	1955
Redin, Andrew W. (See Harbaugh and Redin.)						
Redin, John E., and C. A. Wessman, Rockford, Ill. Drill-chuck	597,328	Jan. 11	1499	349	82	309
Redington, Frank B. (See Cottle and Danly, assignors.)						
Redlefsen, Jens. (See Hafely, Redlefsen, and Happe.)						
Redman, Charles H., Jr., Newark, N. J. Hair-clipper	608,078	July 26	2871	614	84	612
Redman, Thomas, Bolton, England. Lamp-chimney	608,910	Aug. 9	1345	313	84	936
Redmon, Frederick A., assignor of one-half to W. R. Smedberg, San Francisco, Cal. Chain-tightener	596,618	Jan. 4	283	62	82	57
Redon, Constant F. de, New York, N. Y. Electric car-brake	597,432	Jan. 18	1684	391	82	360
Redon, Constant F. de, New York, N. Y. Electromagnetic railway-car brake	597,433	Jan. 18	1686	391	82	361
Redway, John, South Norwalk, Conn. Machine for forming hat-brim curls	597,807	Jan. 25	2338	516	82	504
Reece, Eli B., Westland, assignor of two-thirds to M. A. Catt and E. J. Binford, Greenfield, Ind. Land-roller	614,345	Nov. 15	1991	460	85	1039
Reece, John, deceased; M. Reece and F. A. Shea, Brookline, Mass., administrators. Metal-drilling machine	599,356	Feb. 22	2216	525 526 527	82	1078



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Reece, John, deceased; M. Reece and F. A. Shea, Brookline, Mass., administrators. Machine for cutting worms.	607,626	July 19	2023	419 420	84	429
Reece, John, deceased; M. Reece and F. A. Shea, Brookline, Mass., administrators. Machine for cutting teeth on worm-toothed gears.	607,627	July 19	2026	420	84	429
Reece, John, deceased; M. Reece and F. A. Shea, Brookline, Mass., administrators. Machine for forming irregular cam-grooves.	607,628	July 19	2028	421	84	430
Reece, John, deceased; M. Reece and F. A. Shea, Brookline, Mass., administrators. Machine for cutting gear-teeth.	607,629	July 19	2031	421	84	430
Reece, Marietta, <i>et al.</i> , administrators. (See Reece, John.)						
Reed, Adam, assignor of one-half to J. H. Sparks, St. Joseph, Mo. Garbage-receptacle.	607,524	July 19	1833	382	84	395
Reed & Barton Corporation. (See Brabrook, George H., assignor.)						
Reed & Barton Corporation. (See McAusland, William, assignor.)						
Reed, Charles J., <i>et al.</i> (See Linn, Allen B., assignor.)						
Reed, Charles M. (See Kittson and Browne, assignors.)						
Reed, Harry M. (See Hillman and Reed.)						
Reed, Henry A., Newark, N. J. Electric cable.	608,911	Aug. 9	1346	314	84	936
Reed, James, assignor of two-thirds to J. A. Lendler and T. E. Lydon, Paducah, Ky. Whiffletree-clip.	616,804	Dec. 27	2961	690	85	2043
Reed, James, assignor of two-thirds to J. A. Lendler and T. E. Lydon, Paducah, Ky. Whiffletree-clip.	616,805	Dec. 27	2963	691	85	2044
Reed, James A. (See Wallace and Reed.)						
Reed, James H., Lynn, Mass. Machine for making barrel-heads.	611,939	Oct. 4	596	144 145	85	117
Reed, James S., <i>et al.</i> (See Davis, Joseph H., assignor.)						
Reed, Lincoln, Tabor, Iowa. Operating mechanism for churns.	608,222	Aug. 2	97	25	84	674
Reed, Roger E., assignor of two-thirds to E. E. Weed, D. M. and C. Gerber, Douglas, Mich. Basket-making machine.	601,778	Apr. 5	297	59,60	83	56
Reed, Samuel G., Chelsea, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Straightway or gate valve.	606,812	July 5	332	70	84	67
Reed, William L. (See Abbott, Henry W., assignor.)						
Reed, William M., Bellaire, Ohio. Scale-scraping device.	616,010	Dec. 13	1446	338 339	85	1707
Reed, William S., Leominster, Mass., assignor to American Automatic Banjo Company, of New Jersey. Device for stringed musical instruments.	606,813	July 5	334	71	84	67
Reed, Winfield S., Orono, Me. Combined adjustable postmarking and canceling stamp.	613,824	Nov. 8	1076	244	85	841
Reeder, James A., Memphis, Tenn. Shipping-crate.	607,574	July 19	1926	399	84	410
Reeds, Lucian B., Fulton, Ky. Clothes pin or clamp.	605,207	June 7	279	64	83	1403
Reehling, William, Fort Wayne, Ind. Bicycle-lock.	598,113	Feb. 1	73	17	82	616
Reepmaker, Jacob, Rotterdam, Netherlands. Bicycle-tire.	602,565	Apr. 19	1677	381	83	348
Reepmaker, Jacob, Rotterdam, Netherlands. Toy or puzzle.	604,416	May 24	2192	491	83	1095
Reenstierna, Gustaf L., Boston, Mass., assignor to Reenstierna Manufacturing Company, Providence, R. I. Tag.	615,637	Dec. 6	781	181	85	1567
Reenstierna, Gustaf L., assignor, by mesne assignments, to T. King, Boston, Mass. Clutch mechanism.	616,729	Dec. 27	2843	658	85	2019
Reenstierna Manufacturing Company. (See Reenstierna, Gustaf L., assignor.)						
Rees, Harrison, Farmington, Iowa. Corn-planter.	603,739	May 10	892	198 199	83	790
Rees, Joseph E. (See Williams and Rees.)						
Rees, Thomas, Cleveland, Ohio. Process of and apparatus for coating metallic sheets.	616,491	Dec. 27	2388	553 554	85	1932
Reese, Edwin Y., Atlanta, Ga., assignor of one-half to G. M. McKinnon. Gin-brush.	609,464	Aug. 23	2417	567	84	1173
Reese, George C., Sharon Hill, Pa. Galvanized or metallic-coated wire-cloth.	600,250	Mar. 8	1174	267	82	1463
Reese, George W., Kittanning, Pa. Copper-smelting.	603,590	May 3	629		83	724
Reese, Jesse E. (See Reese; Seneca C., assignor.)						
Reese, Seneca C., Knoxville, Tenn., assignor of one-half to J. E. Reese, Para, Ill. Mail-pouch.	610,769	Sept. 13	1130	260	84	1677
Reese, William S., Natrona, assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Smelting-furnace.	600,620	Mar. 15	1821	417	82	1604
Reese, William S., and E. E. Armstrong, Natrona, assignors to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Continuous smelting plant.	605,451	June 7	739	167 168	83	1495
Reese, William S., and E. E. Armstrong, Natrona, assignors to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Continuous smelting plant.	605,464	June 7	754	172 173	83	1498
Reeve, Amos G., Niagara Falls, assignor to Oneida Community, Limited, Kenwood, N. Y. Chain.	612,138	Oct. 11	968	234	85	199
Reeve, Richard H., <i>et al.</i> (See Royal, Belford G., assignor.)						
Reeves, Amos, and A. W. Johnson, Rock Falls, Ill. Boot or shoe cleaner.	600,376	Mar. 8	1374	314	82	1501
Reeves & Co. (See Reeves and Kailor, assignors.)						
Reeves & Company. (See Reeves, Kailor, and Clay, assignors.)						
Reeves, James R. G., McComb City, Miss. Trough for well-curbs.	603,344	May 3	175	40	83	635
Reeves, John M., assignor of one-half to G. D. Hunter, Bloomington, Ind. Rock-channeling machine.	599,732	Mar. 1	91	22	82	1234
Reeves, Marshal T., and J. N. Kailor, assignors to Reeves & Co., Columbus, Ind. Separator.	599,357	Feb. 22	2220	527 528 529	82	1079
Reeves, Marshal T., and J. N. Kailor, assignors to Reeves & Co., Columbus, Ind. Automatic oscillating mechanism for stackers.	608,223	Aug. 2	98	25	84	674
Reeves, Marshal T., J. N. Kailor, and H. C. Clay, assignors to Reeves & Company, Columbus, Ind. Pneumatic stacker.	612,213	Oct. 11	1093	263	85	224
Reeves, Milton O., assignor to Reeves Pulley Company, Columbus, Ind. Speed-varying mechanism.	603,067	Apr. 26	2556	580 581	83	529
Reeves, Milton O., assignor to Reeves Pulley Company, Columbus, Ind. Hanger.	606,941	July 5	536	117	84	107
Reeves, Orwell C., assignor to National Cash Register Company, Dayton, Ohio. Autographic register.	609,465	Aug. 23	2419	567 568	84	1173
Reeves, Oscar F., Saginaw, Mich. Spring saddle-post.	600,377	Mar. 8	1375	314	82	1502
Reeves, Oscar L., Ridge, Ind. Ter. Car-door.	612,459	Oct. 18	1528	367	85	318
Reeves Pulley Company. (See Reeves, Milton O., assignor.)						
Reflector Syndicate. (See Cowper-Coles, Sherard O., assignor.)						
Regan, Cornelius. (See Haberman and Regan.)						
Regan, Cornelius, assignor to F. Haberman, New York, N. Y. Mottling or spotting device.	609,368	Aug. 16	2236	528	84	1120
Regelation Ice Machine Company. (See Rankin, Thomas L., assignor.)						
Regensteiner, Theodore, Chicago, Ill. Anti-offsetting apparatus for printing-presses.	615,636	Dec. 6	774	179 180 181	85	1565
Regester, Thomas L. (See Head and Regester.)						
Regnoli, Scipione. (See Pignotti, Lori, Regnoli, Besso, and Pantaleoni.)						
Reh, Adam. (See Iverson and Reh.)						
Rehfuss, Martin O. (See Dolley and Rehfuss.)						
Reich, Adolph. (See Orford, Richard, assignor.)						
Reich, Henry O., and C. I. Van Dyke, Lattimer Mines, Pa. Hand-stamp.	602,957	Apr. 26	2379	542	83	497



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Reich, William I., New York, N. Y. Pipe-joint .....	616,011	Dec. 13	1448	339	85	1708
Reichard, Jeremiah, New York, N. Y. Safety-razor .....	616,806	Dec. 27	2964	691	85	2044
Reichard, Jeremiah, New York, N. Y. Safety-razor .....	616,807	Dec. 27	2965	691	85	2044
Reichardt, Ferdinand A., New York, N. Y. Surgical case .....	611,023	Sept. 20	1583	363	84	1781
Reichardt, Hermann, and J. Bueb, Dessau, Germany. Making cyanids from molasses-lyes .....	607,881	July 26	2518	534	84	540
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Switching device and circuit arrangement for electrically-propelled vehicles .....	605,013	May 31	3233	744	83	1312
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Running-gear for motor-vehicles .....	613,018	Oct. 25	2529	601 602	85	530
Reichel, Emil B. W., and F. W. V. Stein, Berlin, Germany, assignors to Siemens & Halske Electric Company of America, Chicago, Ill. Mounting for electric motors .....	605,679	June 14	1142	265	83	1590
Reichenbach, Henry M., assignor to Reichenbach, Morey & Will Company, Rochester, N. Y. Apparatus for manufacturing photographic films .....	599,631	Feb. 22	2761	642 643	82	1186
Reichenbach, Henry M., assignor, by mesne assignments, to Reichenbach, Morey & Will Company, Rochester, N. Y. Folding camera .....	613,310	Nov. 1	150	35	85	646
Reichenbach, Morey & Will Company. (See Reichenbach, Henry M., assignor.)						
Reichert, Charles T., Belvidere, Ill. Pigeon-trap .....	614,132	Nov. 15	1596	366	85	965
Reichert, William A., <i>et al.</i> (See Sieber, John H., assignor.)						
Reid, Charles R., Heidelberg, Miss. Combined cultivator, planter, and fertilizer-dis-tributer .....	612,460	Oct. 18	1529	367 368	85	318
Reid, Douglas, New Richmond, Wis. Folding egg-crate .....	602,472	Apr. 19	1530	348	83	321
Reid, George W. (See Walker, Fred B., assignor.)						
Reid, Henry C., Wilmurt, N. Y. Spoke-brace .....	607,882	July 26	2519	534	84	540
Reid, Hubert B. (See Beaghan, Thomas E., assignor.)						
Reid, John J. (See Ross and Reid.)						
Reid, John T., and H. Thorp, Pendleton, England. Dyeing textile fibers, yarns, and fabrics .....	612,274	Oct. 11	1211		85	245
Reid, Joseph, Oil City, Pa. Gas-engine .....	607,276	July 12	1216	259 260	84	251
Reid, Marcellus, Cleveland, Ohio. Refrigerating-machine .....	598,814	Feb. 8	1262	306	82	859
Reid, Randolph H., assignor of one-half to J. McCormick, Philadelphia, Pa. Mud-guard .....	606,359	June 28	2474	575	83	1879
Reid, Robert, assignor of one-fourth to S. M. Hallstrom, Beverly, and J. F. Hendrickson, Boston, Mass. Machine for cutting out and channeling soles .....	603,968	May 10	1304	298 299 300	83	870
Reid, Robert T. (See Barron, Reid, and McDonnell.)						
Reid, Robert T., and J. L. McDonnell, assignors of one-half to F. C. Cardin and J. T. Bibb, Tacoma, Wash. Telephone system .....	598,183	Feb. 1	194	45	82	639
Reid, Robert T., and J. L. McDonnell, assignors of one-half to F. C. Cardin and J. T. Bibb, Tacoma, Wash. Telephone system .....	605,341	June 7	546	122	83	1457
Reid, Thomas J., Washington Court-House, assignor of one-half to J. L. Dann, Columbus, Ohio. Roller-bearing .....	596,828	Jan. 4	655	151	82	127
Reidenbaugh, John, assignor of one-half to E. C. Dresher and J. T. Monnett, Marion, Ohio. Hydrocarbon-burner .....	603,740	May 10	894	199	83	791
Reidy, James, and J. Naughton, Pontoosuc, Mass. Fire-escape .....	612,673	Oct. 18	1921	455	85	391
Reif, Joseph, Jr. (See Fisher and Reif.)						
Reifsnnyder, Andrew, Marcus Hook, Pa. Plow .....	606,242	June 28	2251	520	83	1835
Reilly, John J., <i>et al.</i> (See Little, Alexander F., assignor.)						
Reilly, Michael F., <i>et al.</i> (See Little, Alexander F., assignor.)						
Reilly, Patrick, Lima, Ohio. Center-plate for railway-cars .....	599,150	Feb. 15	1842	436	82	986
Reilly, Robert M., Baltimore, Md. Gas-tight connection for traps or pipes and water-closet bowls .....	608,007	July 26	2757	585	84	589
Reimold, Julius C. F., Metropolitan, N. Y. Barrel-tap .....	611,276	Sept. 27	2076	477	84	1895
Rein, Bernard, assignor of one-half to Red Cross Cement and Rubber Company, Rochester, N. Y. Brazing apparatus .....	604,080	May 17	1568	351	83	954
Rein, Bernard, assignor of one-half to Red Cross Cement and Rubber Company, Rochester, N. Y. Vulcanizer .....	604,788	May 31	2866	655	83	1240
Reinach, Adolph, <i>et al.</i> (See Herdrich, William F., assignor.)						
Reinecker, Firm of J. E. (See Reinecker, Johannes G., assignor.)						
Reinecker, Johannes G., assignor to Firm of J. E. Reinecker, Gablenz, Germany. Apparatus for manufacturing worm-wheels .....	611,277	Sept. 27	2077	478	84	1895
Reineking, Emil, Melville, N. Y. Plumbing implement .....	614,577	Nov. 22	2410	550	85	1130
Reinhard, John N., St. Louis, Mo. Adjustable shade-support .....	602,104	Apr. 12	891	193	83	180
Reinhard, Joseph, deceased; C. F. Nash, executor, assignor to M. S. Napier, London, England. Road-skate .....	616,802	Dec. 27	2959	690	85	2043
Reinhardt, Henry L., Wheeling, W. Va. Glass-mold .....	605,133	June 7	112	28 29 30	83	1373
Reinhardt, Heinrich, assignor to Kalle & Co., Biebrich, Germany. Orexin tannate and making same .....	615,307	Dec. 6	150		85	1442
Reinhardt, William, <i>et al.</i> (See Doty, MacKnight, and Grauten, assignors.)						
Reinhold, Max J. (See Breithut, Oscar P., assignor.)						
Reiset, Frederic de, <i>et al.</i> (See Masson and Lochelongue, assignors.)						
Reisky, Emil, Rochester, assignor to Brunswick-Balke-Collender Company, New York, N. Y. Bowling-alley .....	599,477	Feb. 22	2463	580	82	1126
Reissmann, Frederick, West Point, N. Y. Frame clamp and support .....	604,160	May 17	1709	385	83	982
Reitz, Daniel G., Berlin, and H. A. Reitz, Somerset, Pa. Flour-maturer and dough-raiser .....	601,171	Mar. 22	2740	629 630	82	1793
Reitz, Henry A. (See Reitz, Daniel G. and H. A.)						
Reitzenbaum, Selmar, Berlin, Germany, assignor of one-half to J. W. Douglass, Philadelphia, Pa. Hand-bag .....	600,889	Mar. 22	2282	520	82	1706
Reliance Dry Kiln Company of Baltimore City. (See Emerson, Victor L., assignor.)						
Rembold, Christopher H., Cincinnati, Ohio. Door-hinge .....	616,258	Dec. 20	1944	451	85	1824
Remig, Philip W. (See Lindner, Ernst, assignor.)						
Remington Arms Company. (See Bradley, Hazen W., assignor.)						
Remington, Charles H., assignor to C. R. Remington & Son Company, Watertown, N. Y. Counting attachment for rotary cutters .....	609,296	Aug. 16	2119	502	84	1096
Remington & Sherman Company. (See Williams, James H., assignor.)						
Remsen, Mary A., <i>et al.</i> (See Remsen, Timothy A., assignor.)						
Remsen, Timothy A., assignor to H. M. Lee, New York, N. Y., and M. E. Remsen. Car-fender .....	609,394	Aug. 16	2287	541	84	1130
Remy-Jacoby Can Company. (See Campbell, Andrew C., assignor.)						
Renfrow, Francis N., Pearce, Miss. Pinless clothes-line .....	607,883	July 26	2520	535	84	541
Renn, Mathew M., Louisville, Ky. Vehicle-wheel .....	608,912	Aug. 9	1347	314	84	936
Renner, Jacob H., Zoar, Ohio. Water-elevator .....	596,619	Jan. 4	284	62	82	57



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Renner, William S., Muncie, Ind. Kitchen bakery-cabinet	606,793	July 5	300	62	84	60
Rennerfelt, Gustaf T. (See Lundell and Rennerfelt.)						
Reno, Howard, Folsom, N. Mex. Ter. Gate-hinge	610,243	Sept. 6	187	42	84	1478
Renrew, Charles L., East Windsor, Conn. Electric railway-signal	605,798	June 14	1362	312 313	83	1631
Renshaw, Joseph B., Hartford, Conn. Cutting-off apparatus	610,380	Sept. 6	363	77, 78	84	1510
Rensselaer Manufacturing Company. (See Rowe, Ellis L., assignor.)						
Renton, William F., Sheffield, England. Railway signal apparatus	611,149	Sept. 20	1820	419	84	1827
Rentschler, George A., assignor of one-half to C. F. Cousins, Hamilton, Ohio. Hand-stamp	613,721	Nov. 8	885	204	85	805
Renwick, Thomas, Miami, Canada. Game apparatus	602,187	Apr. 12	1050	229	83	211
Renyx, Guy W., et al. (See Hartmann, William C., assignor.)						
Renz, Carl J., New York, N. Y. Fountain-pen	597,742	Jan. 25	2211	515	82	480
Renz, Carl J., New York, N. Y. Fountain attachment for penholders	606,360	June 28	2475	575	83	1879
Repauno Chemical Company. (See Hall, Hiram P., assignor.)						
Repetto, Frank H., et al. (See Hodges, John D., assignor.)						
Replogle, Mark A., Akron, Ohio. Mechanical speed-governor	603,345	May 3	176	41	83	636
Replogle, Mark A., Akron, Ohio. Electrical governor	604,544	May 24	2436	553	83	1137
Replogle, Mark A., Akron, Ohio. Speed-governor	605,014	May 31	3235	744	83	1312
Resow, Adolf, assignor to F. Krupp, Essen-on-the-Ruhr, Germany. Gun-carriage	616,687	Dec. 27	2757	640 641	85	2001
Rettew, Charles E., and W. R. Johnson, Carbondale, Pa. Reducing-valve	608,345	Aug. 2	324	71	84	720
Reubel, Henry. (See Kroder and Reubel.)						
Reuleaux, Josef. (See Laughlin and Reuleaux.)						
Reuleaux, Josef. (See Laughlin and Reuleaux.) (Reissue.)						
Reusch, Edward C., et al. (See Winkler, George J., assignor.)						
Reusch, Paul, et al. (See Winkler, George J., assignor.)						
Reuse, Jean, Enghien, assignor to Société Anonyme d'Exploitation des Brevets Reuse aux Etats-Unis d'Amerique, Brussels, Belgium. Cigar-making machine	608,913	Aug. 9	1348	314 315 315	84	936
Reuse, Jean, Enghien, assignor to Société Anonyme d'Exploitation des Brevets Reuse aux Etats-Unis d'Amerique, Brussels, Belgium. Cigar-making machine	608,914	Aug. 9	1351	316 317 318	84	937
Reuse, Jean, Enghien, assignor to Société Anonyme d'Exploitation des Brevets Reuse aux Etats-Unis d'Amerique, Brussels, Belgium. Cigar-machine	608,915	Aug. 9	1356	318 319	84	938
Reuse, Jean, Enghien, assignor, by mesme assignments, to Société Anonyme l'Exploitation des Brevets Reuse aux Etats Unis d'Amerique, Brussels, Belgium. Cigar-machine. (Reissue)	11,695	Sept. 20	1969	454 455 456	84	1854
Reuss, William C. (See Baur and Reuss.)						
Reuter, John C., Chicago, Ill., assignor to L. W. Stevens, Auburn, N. Y. Motor-vehicle	612,506	Oct. 18	1605	383	85	333
Reuter, Oscar. (See Groom, John, assignor.)						
Reuter, William C., Walla Walla, Wash. Bible-wheel	601,383	Mar. 29	3141	709	82	1897
Reuterberg, John, Two Harbors, Minn. Combination-lock	605,514	June 14	831	193	83	1533
Rex Cash Register Company. (See Bentley, William, assignor.)						
Rexford, Everett H. (See Elmendorf, Albert, assignor.)						
Rexroad, James M., Partridge, assignor of one-half to W. C. Pierce, Booth, Kans. Straddle-row cultivator	612,214	Oct. 11	1096	263 264	85	224
Rey, Hermann. (See Schmid and Rey.)						
Reyes, Bernardo, Monterey, Mexico. Pistol-sword	616,356	Dec. 20	2128	495	85	1861
Reymond, James, and A. Poincenot, St. Imier, Switzerland. Screw-cutting machine	602,689	Apr. 19	1911	435	83	392
Reynolds, Adrain J. (See Powers and Reynolds.)						
Reynolds, Alfred M., and J. T. Hewitt, Birmingham, England. Manufacture of tubes	616,357	Dec. 20	2128	495	85	1861
Reynolds, Andrew J., Worcester, Mass. Electric self-loading street-cleaning car	612,789	Oct. 18	2120	506	85	432
Reynolds, Catherine, assignor, by mesme assignments, of one-half to A. V. Alsdorf, Newark, N. J. Attachment for sewing-machines	613,604	Nov. 1	691	159	85	748
Reynolds, Charles H., St. Louis, Mo. Arm-rest for desks	598,617	Feb. 8	937	226	82	799
Reynolds, Dexter, St. Louis, Mo. Apparatus for purifying liquids	614,890	Nov. 29	2989	685	85	1255
Reynolds, Earl H., Sterling, Ill. Car-loader	614,891	Nov. 29	2992	686	85	1256
Reynolds, Edward W. (See Fisher and Reynolds.)						
Reynolds, Edwin, Milwaukee, Wis. Stamp-mill	604,502	May 24	2362	536	83	1125
Reynolds, Francis W., the Younger, assignor of one-half to H. Straus, Liverpool, England. Governing device for preventing racing in engines	614,346	Nov. 15	1993	460	85	1039
Reynolds, Frank A., assignor of one-half to S. H. Manning, Lewiston, Me., and H. C. Parker, Brooklyn, N. Y. Ripping device	596,789	Jan. 4	590	137	82	113
Reynolds, Frank A., assignor of one-half to S. H. Manning, Lewiston, Me., and H. C. Parker, Brooklyn, N. Y. Double-acting tool-driver	596,790	Jan. 4	591	137	82	113
Reynolds, Frank P. (See Reynolds, John R., assignor.)						
Reynolds, Frank P. (See Reynolds, John R. and F. P.)						
Reynolds, Frank S. (See Cowles and Reynolds.)						
Reynolds, George H., assignor to Crane Elevator Company, Chicago, Ill. Automatic safety-stop	610,587	Sept. 13	825	189 190	84	1614
Reynolds, George H., assignor to Crane Elevator Company, Chicago, Ill. Cable attachment for elevator cars	611,416	Sept. 27	2347	541	84	1944
Reynolds, George W., H. C. Turner, San Francisco, and W. A. Turner, Gilroy, assignors to American Indicator Company, San Francisco, Cal. Station-indicator and advertising device	611,940	Oct. 4	600	146	85	118
Reynolds, Harry A. (See Kellogg, Thomas E., assignor.)						
Reynolds, Henry K., Attica, Ohio. Dredging-machine	597,190	Jan. 11	1276	299	82	264
Reynolds, Henry S., assignor to Iron Clad Manufacturing Company, New York, N. Y. Reinforced head for range-boilers	614,892	Nov. 29	2995	687	85	1256
Reynolds, Horace J., Corning, Iowa. Cooling vessel	603,239	Apr. 26	2851	650	83	586
Reynolds, Howard, Sarnia, Canada. Flower-pot cleaner	610,203	Sept. 6	93	20	84	1458
Reynolds, John R., Hartford, Conn. Speed-limit for engines	606,877	July 5	447	96	84	88
Reynolds, James F., Lynn, assignor to L. C. Chase & Co., Boston, Mass. Device for repairing rubber tires	604,636	May 24	2592	592	83	1168
Reynolds, John C., Venice, Pa. Safety gas-regulator	616,730	Dec. 27	2844	659	85	2019
Reynolds, John R., Hartford, Conn. Governing mechanism for throttle-valve closers	604,840	May 31	2948	674	83	1256
Reynolds, John R., assignor to F. P. Reynolds, Hartford, Conn. Governing device for throttle-valve closers	599,013	Feb. 15	1614	383	82	943
Reynolds, John R. and F. P., Hartford, Conn.; said John R. Reynolds assignor to said F. P. Reynolds. Engine-stop	599,014	Feb. 15	1617	383 384	82	944
Reynolds, Lewis D., and V. G. Jones, Island Branch, W. Va. Bed-rail clamp	612,056	Oct. 11	828	203	85	172
Reynolds, Oliver B., Brockton, Mass. Dumping-wagon	604,789	May 31	2868	655	83	1240
Reynolds, Stephen, Cannon Falls, Minn. Car-coupling	599,358	Feb. 22	2227	529	82	1080
Reynolds, Thomas. (See Sutter and Reynolds.)						
Reynolds, Vestal, Marion, Ind. Tire bolter and cutter	613,722	Nov. 8	887	205	85	806



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Reznicek, Anton, Jersey City, assignor to himself, M. Meyenberg, and S. Erdmann, Hoboken, N. J. Pocket-book	616,492	Dec. 27	2394	554	85	1933
Rheinish, Louis. (See Eschenbach and Sielke, assignors.)						
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Coupling	604,790	May 31	2871	656	83	1241
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Acetylene-gas-generating lamp	606,684	July 5	89	19	84	20
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Gas-burner	610,414	Sept. 6	520	113	84	1538
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lantern-bracket	614,347	Nov. 15	1995	460	85	1040
Rhine, George W. (See Moser, George E., assignor.)						
Rhine, Minnie, Philadelphia, Pa. Safety-pin	606,427	June 28	2607	601	83	1906
Rhoades, Alonzo E., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warper-comb	602,771	Apr. 19	2036	461	83	416
Rhoades, Francis S. (See Houser, Scott, assignor.)						
Rhoades, Frank P. (See Jenkins, Charles S., assignor.)						
Rhoads, Low W., San José, Cal. Combination bedstead and mantel	597,591	Jan. 18	1959	455	82	416
Rhodes, Anthony, Shenandoah, Iowa. Lifting-jack	615,105	Nov. 29	3414	783	85	1337
Rhodes, Daisy F. (See Bennett, William H., assignor.)						
Rhodes, Drewry J., Columbia, S. C. Napkin ring and holder	612,529	Oct. 18	1640	391	85	340
Rhodes, Frederick L. (See Wales and Rhodes.)						
Rhodes, Hiram N., assignor of one-half to K. L. Howard, Duluth, Minn. Tire-valve	597,655	Jan. 18	2062	482	82	436
Rhodes, Jay B., assignor to F. C. Austin, Chicago, Ill. Impact-tool	604,480	May 24	2319	526 527	83	1118
Rhodes, Jay B., assignor to F. C. Austin, Chicago, Ill. Steam-pump	606,844	July 5	394	84	84	78
Rhodes, Jay B., assignor to F. C. Austin, Chicago, Ill. Steam-actuated valve	612,437	Oct. 18	1491	360	85	311
Rhodes, Jay B., assignor to F. C. Austin, Chicago, Ill. Impact-tool	613,311	Nov. 1	153	35, 36	85	647
Rhodes, Jay B., assignor to F. C. Austin, Chicago, Ill. Impact-tool	613,312	Nov. 1	162	36	85	648
Rhodes, Joseph M., Covington, Ind. Implement for carrying wheels	608,479	Aug. 2	554	123	84	765
Rhodes, Samuel A., McClean, Nebr. Wire-tightener	598,746	Feb. 8	1163	279	82	840
Rhodin, John G. A., Eccles, England. Electrolytic apparatus	608,300	Aug. 2	224	52	84	699
Rhood, Charles H., Northampton, Mass. Filtering device	597,222	Jan. 11	1330	310	82	274
Rhood, Charles H., Northampton, Mass. Filter	597,248	Jan. 11	1369	320	82	281
Ribbe, Paul F., Berlin, Germany. Electrode-plate for electric accumulators	607,078	July 12	829	181	84	180
Ribert, José M., assignor of one-half to A. Rosenstein, Lancaster, Pa. Ornamenting surfaces	608,224	Aug. 2	100	25	84	675
Riblet, Alfred K., et al. (See Gifford, Cyrus P., assignor.)						
Riblet, Edward J., et al. (See Gifford, Cyrus P., assignor.)						
Rice, Abram, Danville, Iowa. Milking-hopple	609,833	Aug. 30	3085	719	84	1314
Rice, Charles A. (See Belding and Rice.)						
Rice, Charles E., Little Rock, Ark. Fireman's apparatus for handling ladders at fires	597,022	Jan. 11	989	233	82	208
Rice, Charles E., assignor of one-half to W. W. Dickinson-Hardware Company, Little Rock, Ark. Clothes-pin attachment	613,174	Oct. 25	2777	655	85	579
Rice, Dick H., et al. (See Elliott, Ralph W., assignor.)						
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company, of New York. System of train control	608,301	Aug. 2	226	53	84	700
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company, of New York. System of train control	608,302	Aug. 2	227	53	84	700
Rice, Emery E., Charleroi, Pa. Car fender and brake	600,378	Mar. 8	1376	314 315	82	1502
Rice, Frank. (See Sears and Rice.)						
Rice, Frank A., Edna, Cal. Cultivator	613,470	Nov. 1	456	105	85	703
Rice, Frank H., Palmer, assignor of two-thirds to M. H. Jones, Easton, Pa. Braking device	615,903	Dec. 13	1226	287	85	1664
Rice, Frank T. (See Heffron and Rice.)						
Rice, Frank T., Tower City, N. D. Extension shade and curtain-pole holder	613,605	Nov. 1	692	159	85	748
Rice, James T., Cleveland, Ohio. Extension gas-chandelier	608,775	May 10	959	214	83	803
Rice, Joel T., Hot Springs, Ark. Flying-machine	606,942	July 5	537	118	84	107
Rice, John H., assignor to Leighton Machine Company, Manchester, N. H. Knitting-machine	604,638	May 24	2596	592 593	83	1169
Rice, John V., Jr., assignor to John V. Rice, Jr., Company, Edgewater Park, N. J. Naphtha-retort	604,841	May 31	2950	674 675	83	1256
Rice, John V., Jr., assignor to John V. Rice, Jr., Company, Edgewater Park, N. J. Engine-governor	607,647	July 19	2064	430 431	84	436
Rice, Joseph S., and F. W. Beittenmiller, Philadelphia, Pa. Overhead switch	604,266	May 17	1910	427	83	1021
Rice, Moses. (See Henning, Norval C., assignor.)						
Rice, William A., Jerseyville, Ill. Seed-cleaner	612,674	Oct. 18	1923	455	85	392
Rice, William H., Mechanicsburg, Pa. Adjustable stay for wire fences	610,083	Aug. 30	3519	815	84	1400
Rich, Aden W., and F. R. Freudenweiler, Philadelphia, Pa. Game apparatus	611,278	Sept. 27	2078	478	84	1894
Rich, Elijah D. (See Morse and Rich.)						
Rich, Elmer M., Silverton, Colo. Ore-concentrator	604,920	May 31	3092	710	83	1284
Rich, Fred S. (See Parsons, George W., assignor.)						
Rich, Herman G., Des Moines, J. A. Chandler, and W. H. Dunshee, Cedar Rapids, Iowa. Filter	614,578	Nov. 22	2411	551	85	1130
Rich, John E., East Chain, Minn. Scraper for roadwork or ditching	606,580	June 28	2872	661	83	1959
Rich, Louis F. C., Cheltenham, England, assignor to himself, and J. H. Hull, New York, N. Y. Tool for boring conical holes	605,259	June 7	390	88	83	1426
Rich, Martin A., Kansas City, Mo. Street-flushing machine	613,910	Nov. 8	1214	277 278	85	868
Rich, Walter H., Melrose, Mass. Corner-shield for trunks	607,132	July 12	935	203	84	199
Richard, Delia, Appleton, Wis. Work-box	611,333	Sept. 27	2175	503	84	1913
Richard, Frederic, Lynn, assignor of one-half to T. Leutz, Boston, Mass. Electric clock	596,943	Jan. 4	852	200	82	165
Richard, Frederic, assignor to Universal Electric Clock Company, Boston, Mass. Automatic time electric-circuit switch	614,982	Nov. 29	3184	732	85	1295
Richard, Joseph A., St. Louis, Mich. Nut-lock	613,077	Oct. 25	2629	622	85	550
Richards, Angie. (See Richards, William S., assignor.)						
Richards, Benjamin F., Chicago, Ill. Window	602,361	Apr. 12	1332	296 297	83	268
Richards, Charles E., et al. (See Hanson, Joseph, assignor.)						
Richards, Charles V., Skowhegan, Me. Cuff-holder	614,026	Nov. 8	1397	320	85	905
Richards, Emanuel L., assignor to Hance Bros. & White, Philadelphia, Pa. Process of and apparatus for dipping pills	599,865	Mar. 1	365	82	82	1282
Richards, Francis H., Hartford, Conn. Feed mechanism	597,566	Jan. 18	1908	445 446	82	406
Richards, Francis H., Hartford, Conn. Weighing-machine bearing	600,021	Mar. 1	632	144	82	1334



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Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,022	Mar. 1	636	144 145	82	1335
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,023	Mar. 1	645	146	82	1337
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,024	Mar. 1	650	146 147	82	1338
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,025	Mar. 1	654	148 149	82	1339
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,026	Mar. 1	657	149 150	82	1339
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,027	Mar. 1	661	151	82	1340
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,028	Mar. 1	666	152 153	82	1341
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,029	Mar. 1	671	153 154	82	1342
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,030	Mar. 1	675	154 155	82	1343
Richards, Francis H., Hartford, Conn. Weighing apparatus or plant .....	600,031	Mar. 1	681	155 156	82	1345
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,032	Mar. 1	686	156 157	82	1346
Richards, Francis H., Hartford, Conn. Elevator .....	600,033	Mar. 1	689	157	82	1346
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,034	Mar. 1	692	157 158	82	1347
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	600,035	Mar. 1	699	159 160	82	1349
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,036	Mar. 1	705	161 162	82	1350
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,037	Mar. 1	711	162 163	82	1351
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,038	Mar. 1	716	164 165	82	1352
Richards, Francis H., Hartford, Conn. Weighing and delivering apparatus .....	600,039	Mar. 1	724	166	82	1354
Richards, Francis H., Hartford, Conn. Weighing and delivering apparatus .....	600,040	Mar. 1	730	166 167	82	1355
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	600,041	Mar. 1	738	167 168	82	1357
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,042	Mar. 1	745	169 170	82	1359
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,043	Mar. 1	749	171 172	82	1360
Richards, Francis H., Hartford, Conn. Weighing-machine .....	600,044	Mar. 1	753	172 173	82	1361
Richards, Francis H., Hartford, Conn. Actuating mechanism for sewing-machine loop- ers .....	602,105	Apr. 12	892	194	83	180
Richards, Francis H., Hartford, Conn. Weighing-machine .....	606,243	June 28	2252	521 522	83	1835
Richards, Francis H., Hartford, Conn. Looper mechanism for sewing-machines .....	607,080	July 12	837	182 183	84	181
Richards, Francis H., Hartford, Conn. Sewing-machine .....	607,081	July 12	842	183 184	84	182
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,458	July 19	1541	328 329	84	380
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,459	July 19	1561	330 331	84	337
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,460	July 19	1577	331 332	84	341
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,461	July 19	1590	333 334 335	84	345
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,462	July 19	1597	335 336	84	346
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,463	July 19	1602	337 338	84	348
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,464	July 19	1612	339 340	84	350
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,465	July 19	1623	340 341 342	84	353
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,466	July 19	1630	342 343	84	354
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,467	July 19	1636	343 344 345	84	355
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,468	July 19	1643	345 346 347	84	356
Richards, Francis H., Hartford, Conn. Box-filling machine .....	607,469	July 19	1648	347 348	84	358
Richards, Francis H., Hartford, Conn. Box filling and transferring machine .....	607,470	July 19	1659	348 349	84	360
Richards, Francis H., Hartford, Conn. Box filling and transferring apparatus .....	607,471	July 19	1671	350 351	84	362
Richards, Francis H., Hartford, Conn. Box-filling machine .....	607,472	July 19	1677	351 352	84	363
Richards, Francis H., Hartford, Conn. Recording apparatus for weighing-machines .....	607,473	July 19	1685	352 353 354	84	365
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,474	July 19	1701	354 355 356	84	367
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,475	July 19	1712	356 357 358	84	370
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,476	July 19	1720	358 359	84	371



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Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,478	July 19	1731	361 362	84	374
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,479	July 19	1742	362 363	84	377
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,480	July 19	1745	363 364	84	377
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	607,481	July 19	1749	365 366	84	378
Richards, Francis H., Hartford, Conn. Weighing-machine .....	607,482	July 19	1754	366 367	84	380
Richards, Francis H., Hartford, Conn. Universal joint .....	608,625	Aug. 9	815	189	84	835
Richards, Francis H., Hartford, Conn. Combined cycle holder and lock .....	610,722	Sept. 13	1043	240	84	1660
Richards, Francis H., Hartford, Conn. Sewing-machine .....	613,471	Nov. 1	457	105 106	85	703
Richards, Francis H., Hartford, Conn. Sewing-machine .....	613,472	Nov. 1	465	106 107	85	704
Richards, Francis H., Hartford, Conn. Sewing-machine .....	613,473	Nov. 1	473	107 108	85	705
Richards, Francis H., Hartford, Conn. Thread-controlling device for sewing-machines.	613,474	Nov. 1	483	109	85	707
Richards, Francis H., Hartford, Conn. Thread-controlling attachment for sewing-machines .....	613,475	Nov. 1	486	109 109	85	707
Richards, Francis H., Hartford, Conn. Rolling-mill .....	613,476	Nov. 1	489	110	85	708
Richards, Francis H., Hartford, Conn. Shaft-coupling .....	614,502	Nov. 22	2288	524 821	85	1108
Richards, Francis H., Hartford, Conn. Weighing-machine .....	615,195	Nov. 29	3570	822 823	85	1368
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	615,196	Nov. 29	3575	823 824	85	1369
Richards, Francis H., Hartford, Conn. Weighing-machine .....	615,197	Nov. 29	3581	824 825 826	85	1370
Richards, Francis H., Hartford, Conn. Weighing apparatus .....	615,198	Nov. 29	3589	826 827	85	1371
Richards, Francis H., Hartford, Conn. Weighing-machine .....	615,199	Nov. 29	3598	828 829	85	1374
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	615,200	Nov. 29	3603	829 830	85	1375
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	615,201	Nov. 29	3610	830 831	85	1376
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	615,493	Dec. 6	509	118	85	1510
Richards, Francis H., Hartford, Conn. Weighing-machine .....	615,494	Dec. 6	514	119 120	85	1511
Richards, Francis H., Hartford, Conn. Weighing-machine .....	615,495	Dec. 6	524	120 121	85	1513
Richards, Francis H., Hartford, Conn. Weighing-machine .....	615,496	Dec. 6	530	121 122 123	85	1514
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	616,633	Dec. 27	2633	610	85	1976
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,634	Dec. 27	2640	611 612	85	1978
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,635	Dec. 27	2647	612 613 614	85	1979
Richards, Francis H., Hartford, Conn. Conveyer .....	616,688	Dec. 27	2759	641 642 643	85	2001
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,854	Dec. 37	3057	710 711	85	2063
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,855	Dec. 27	3062	711 712	85	2064
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	616,856	Dec. 27	3067	712 713	85	2065
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,857	Dec. 27	3071	713 714	85	2065
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,858	Dec. 27	3078	714 715 716	85	2066
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,859	Dec. 27	3083	716 717	85	2068
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	616,860	Dec. 37	3088	717 718 719	85	2069
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	616,861	Dec. 27	3093	719	85	2070
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,862	Dec. 27	3102	720	85	2072
Richards, Francis H., Hartford, Conn. Weighing-machine .....	616,863	Dec. 27	3106	720 721	85	2072
Richards, Francis H., Hartford, Conn. Automatic weighing-machine .....	616,864	Dec. 27	3113	722	85	2074
Richards, Frank, New York, N. Y. Valve for air-compressors .....	602,473	Apr. 19	1531	348	83	321
Richards, Frank, New York, N. Y. Air-compressor .....	606,428	June 28	2608	601	83	1906
Richards, Fred M., and H. M. Forbes, assignors of one-third to G. E. York, Portage, Wis. Rotary engine .....	610,084	Aug. 30	3520	816	84	1401
Richards, George A., assignor to McElwaine-Richards Company, Indianapolis, Ind. Changeable-gear mechanism .....	597,914	Jan. 25	2508	587	82	536
Richards, Hubert P., New Britain, Conn. Presser-foot for sewing-machines .....	601,280	Mar. 29	2969	671	82	1865
Richards, Hubert P., New Britain, Conn. Presser-foot for sewing-machines .....	601,402	Mar. 29	3177	717	82	1904
Richards, Hubert P., New Britain, Conn. Tension device .....	602,522	Apr. 19	1608	368	83	336
Richards, Hubert P., New Britain, Conn. Sewing-machine .....	607,079	July 12	830	181 182	84	180
Richards, Hubert P., New Britain, Conn. Thread-controlling means for sewing-machines.	608,795	Aug. 9	1110	257	84	891
Richards, James E., Calumet, Mich. Automatic safety-stop for hoisting-engines .....	596,829	Jan. 4	657	151 152	82	127
Richards, John, San Francisco, Cal. Centrifugal pump .....	607,133	July 12	936	203	84	199



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Richards, John W., Muscatine, Iowa. Awning	602,772	Apr. 19	2037	461	83	416
Richards, Joseph B., Thomson, Ga., assignor of one-half to L. E. Steinmann, New York, N. Y. Tag-fastener	603,365	May 3	205	47	83	641
Richards, Joseph T., Philadelphia, Pa. Instrument for indicating condition of railway-tracks	614,983	Nov. 29	3187	733	85	1296
Richards, Joseph W., and C. W. Roepper, Bethlehem, Pa. Producing chemical compounds by electrolysis	602,872	Apr. 26	2218		83	467
Richards, Joseph W., and C. W. Roepper, Bethlehem, Pa. Electrolytically manufacturing metallic sulfids	602,873	Apr. 26	2220		83	467
Richards, Morgan. (See Williams, Thomas, and Richards.)						
Richards, Willard B., assignor to W. B. Richards, Jr., Salt Lake City, Utah. Wheel-plow	615,462	Dec. 6	459	108	85	1500
Richards, Willard F. (See Wilhelm and Richards.)						
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Electric-lighting system for railway-cars	604,081	May 17	1570	351	83	955
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Electric-lighting system for railway-cars	604,082	May 17	1572	351	83	955
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Electric-lighting apparatus for railway-cars	604,083	May 17	1574	352	83	955
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Electric-lighting apparatus for railway-cars	604,084	May 17	1576	352 353	83	956
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Electric-lighting apparatus for railway-cars	604,085	May 17	1578	353	83	956
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Casing for electric car-lighting apparatus	612,139	Oct. 11	969	234	85	199
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Electric-lighting apparatus for railway-cars	615,904	Dec. 13	1227	287 288	85	1665
Richards, Willard F., assignor to C. M. Gould, Buffalo, N. Y. Electric-lighting apparatus for railway-cars	615,905	Dec. 13	1229	288	85	1665
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Locomotive-tender coupling	613,313	Nov. 1	164	37	85	648
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	613,314	Nov. 1	166	37	85	649
Richards, William E., New York, N. Y. Handle	604,889	May 31	3032	696	83	1272
Richards, William S., assignor to A. Richards, Albany, Oreg. Routing-machine	606,155	June 21	2068	475	83	1780
Richards, Windsor E., Wilksburg, Pa. Air-indicator for bicycle-tires	602,242	Apr. 12	1132	249	83	227
Richardson, Aaron, Huntington, Ind. Pipe-coupling	598,158	Feb. 1	143	33	82	630
Richardson, Alfonso A., New York, N. Y. Grate-bar	611,440	Sept. 27	2393	549	84	1951
Richardson, Alonzo F., New York, N. Y. Nasal injector	600,449	Mar. 8	1503	343	82	1524
Richardson, Arthur M., et al. (See Barnhill, Alva H., assignor.)						
Richardson, Charles E., assignor to Parks & Woolson Machine Company, Springfield, Vt. Cloth-shearing machine	609,166	Aug. 16	1866	445	84	1045
Richardson, Charles H., and L. McMakin, Jr., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Rheostat	611,185	Sept. 20	1874	433	84	1838
Richardson, Clayton M., Toronto, Canada. Heating-drum	607,706	July 19	2164	455	84	454
Richardson, Clifford, assignor to Barber Asphalt Paving Company, New York, N. Y. Asphaltic pavement	607,884	July 26	2522		84	541
Richardson, Edward, Guilford, N. H. Buffing and polishing roll or tool	615,906	Dec. 13	1231	288 289	85	1666
Richardson, Ella M. and J. L., Huntington, Ind. Combined square and curve for cutting garments	616,493	Dec. 27	2395	555	85	1933
Richardson, Everett P., assignor to J. H. Richardson, trustee, Lawrence, Mass. Shoe-sewing machine	599,253	Feb. 15	2004	476	82	1016
Richardson, George F., Hartford, Conn. Electrically-operated regulator for dampers, &c.	616,358	Dec. 20	2130	496	85	1861
Richardson, George W., Sparta, Wis. Grain-separator	609,212	Aug. 16	1955	463 464	84	1063
Richardson, Harold. (See Priestman and Richardson.)						
Richardson, Henry B., Keytesville, Mo. Lock	605,342	June 7	552	123	83	1458
Richardson, Henry S., Terre Haute, Ind. Fastener	598,950	Feb. 15	1519	362	82	925
Richardson, James D., Newcastle-upon-Tyne, and F. H. Young, Birmingham, England. Folding mattress, bed, and seat	611,647	Oct. 4	98	24	85	22
Richardson, James E., Baltimore, assignor of one-half to J. C. Dowell, Woodside, Md. Puzzle	611,334	Sept. 27	2176	503	84	1914
Richardson, Joel E., Salem, N. H. Pneumatic horse-collar	615,747	Dec. 13	965	224	85	1615
Richardson, John H., trustee. (See Richardson, Everett P., assignor.)						
Richardson, John L. (See Richardson, Ella M. and J. L.)						
Richardson, John T., Harrisburg, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Dumping-wagon	609,167	Aug. 16	1868	445	84	1045
Richardson, John W., London, England. Saddle for velocipedes	602,523	Apr. 19	1610	368	83	336
Richardson, Julius C., assignor of two-thirds to E. Wende and L. H. Van Allen, Buffalo, N. Y. Nail-making machine	602,566	Apr. 19	1678	381 382	83	348
Richardson, Maria, Helmick, Kans. Stay for bed-slats	609,703	Aug. 23	2864	669	84	1257
Richardson, Mary A., administratrix. (See Richardson, William A.)						
Richardson, Orrin, Clipper Gap, Cal. Step-ladder	603,579	May 3	607	135	83	719
Richardson, Samuel T., assignor of one-third to A. E. Holland, Baltimore, Md. Mechanical movement	604,417	May 24	2193	491	83	1055
Richardson, Thornton L., Washington, D. C., assignor of one-half to G. N. Waterbury, Stamford, Conn. Lock	597,021	Jan. 11	984	233	82	208
Richardson, Willard D., and G. J. Holl, assignors to Ohio Ceramic Engineering Company, Cleveland, Ohio. Brick-re-pressing machine	597,656	Jan. 18	2064	482 483 484	82	436
Richardson, William A., deceased; M. A. Richardson, administratrix, assignor to Harrington & Richardson Arms Company, Worcester, Mass. Safety device for firearm-locks	600,337	Mar. 8	1316	301	82	1490
Richardson, William S., Boston, Mass. Fastener for gloves, &c.	605,833	June 14	1432	329	83	1644
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Fastener	604,637	May 24	2593	592	83	1169
Richardson, Willis S., Newark, N. J. Identification-badge	613,723	Nov. 8	889	205	85	806
Richardson, Winfield S., assignor to National Waste Utilization Company, Camden, N. J. Apparatus for making sulfate of ammonia	598,488	Feb. 1	712	172 173	82	738
Richert, William K., Scranton, Pa. Compression lubrication-cup	606,897	July 5	474	102	84	94
Richey, Charles F., Franklin, Pa. Sucker-rod lifter	611,417	Sept. 27	2348	541	84	1945
Richey, Charles V., assignor of three-fifths to L. C. Bailey, Washington, D. C. Combined cot, hammock, and stretcher	615,907	Dec. 13	1235	289	85	1666
Richey, Oliver G. (See Burneson and Richey.)						
Richmond, Alexander, Chicago, Ill. Side bearing for railway-cars	613,527	Nov. 1	563	127	85	723
Richmond, Charles C., Boston, Mass. Non-refillable bottle	599,254	Feb. 15	2008	476	82	1017



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Richmond, Charles T., assignor to National Carbon Company, Cleveland, Ohio. Galvanic battery	614,759	Nov. 22	2746	627	85	1193
Richmond, Edward J. (See Bliss and Richmond.)						
Richmond, Francis G., Branton, England. Apparatus for preserving fish alive during transportation	613,528	Nov. 1	564	128	85	723
Richmond, George H., and J. Crowther, Manchester, England. Bicycle	600,450	Mar. 8	1503	344	82	1524
Richmond, Henry T., Glenwood, Iowa. Neck-yoke center	597,657	Jan. 18	2067	484	82	436
Richmond Locomotive and Machine Works. (See Davis, Ezekiel F. C., assignor.)						
Richmond Safety Gate Co. (See Belles and Hess, assignors.)						
Richmond, William. (See Carter and Richmond.)						
Richner, Anderson H., Crawfordsville, Ind. Conveyer	615,748	Dec. 13	966	224	85	1615
Richson, Carl E., Brooklyn, assignor of one-half to G. P. Wern, New York, N. Y. Suspension cableway, carrier, and carriage	597,296	Jan. 11	1436	337	82	295
Richter, Adolf, Rudolstadt, Germany. Mechanical musical instrument	605,134	June 7	120	30, 31	83	1374
Richter, Ernst. (See Gray and Richter.)						
Richter, Felix, Tschoepeln, Germany. Universal or ball joint	610,920	Sept. 20	1393	319	84	1745
Richter, Frank L., Moravia, Tex. Poison-distributor	598,815	Feb. 8	1263	306	82	859
Richter, Frederick W., Chicago, Ill. Scrubbing appliance	601,678	Apr. 5	97	19	83	21
Richter, Gustav F., New York, N. Y. Tonsilotome	614,760	Nov. 22	2747	627	85	1193
Richter, Max E., Fort Wayne, Ind. Handle-bar grip	612,057	Oct. 11	829	203	85	172
Richter, Otto F., Holyoke, Mass. Branch-pipe-holding device for plumbers' use	605,613	June 14	1014	234	83	1566
Richter, Reinhold, Reichenberg, Austria-Hungary. Apparatus for cutting double-pile fabrics	604,701	May 24	2714	620, 621	83	1192
Richter, Robert, Cologne, Germany. Drawing apparatus	599,402	Feb. 22	2315	547	82	1099
Rickard, Clyde A., and E. N. Long, Seville, Ohio. Treating tobacco-leaves	604,338	May 17	2053		83	1048
Rickard, James R. (See Woolf, Brown, and Rickard.)						
Rickard, James R., London, England. Reversing-gear	596,620	Jan. 4	285	62, 63	82	57
Rickards, William T. (See Carley and Rickards.)						
Ricke, George H., assignor of three-fourths to S. C. Shattler and V. Herold, Cincinnati, Ohio. Package for holding liquor	616,012	Dec. 13	1449	339	85	1708
Ricker, Edward P. (See Daly, Frank A., assignor.)						
Ricker, George E., et al. (See Huxley, Charles E., assignor.)						
Ricketts, Adellie, Monte Vista, Colo. Dish-cleaner	603,153	Apr. 26	2709	616	83	560
Ricketts, James J., Pittsburg, Pa. Tube-joint	616,808	Dec. 27	2966	691	85	2044
Ricketts, William M., assignor of one-half to W. H. Slade, Columbus, Ohio. Cistern-cleaning device	610,279	Sept. 6	266	56	84	1493
Rickey, James, assignor to J. W. Rickey, Minneapolis, Minn. Starching-machine	613,424	Nov. 1	392	90	85	691
Rickey, James W. (See Rickey, James, assignor.)						
Rickman, Alvin L., Scio, Ohio. Overshoe	598,816	Feb. 8	1265	307	82	860
Ricks, Floyd K., Canton, Ill. Wagon	610,921	Sept. 20	1395	319	84	1746
Riddell, John, Schenectady, N. Y. Grade-delineator	610,747	Sept. 13	1080	248	84	1667
Riddle, Edward C., Browning, Mo. Mechanical movement	605,015	May 31	3238	745	83	1312
Riddle, Morton, Jr. (See Owen, Elerson P., assignor.)						
Ridenour, George M., Terra Alta, W. Va. Heating-drum	599,632	Feb. 22	2767	643	82	1187
Rider, Belle, et al. (See Rider, Herbert E., assignor.)						
Rider, Benjamin F. (See Cox and Rider.)						
Rider, Charles S., assignor to S. Howes Company, Silver Creek, N. Y. Confectioner's kettle	599,047	Feb. 15	1671	395	82	956
Rider, Herbert E., assignor to B. Rider and C. P. Robinson, New York, N. Y. Device for applying sealing-wax	600,992	Mar. 22	2448	558	82	1737
Rider, Herbert E., assignor, by mesne assignments, to Ocean Power Company, New York, N. Y. Wave-power-utilizing device	612,549	Oct. 18	1677	399, 400	85	346
Rider, Robert G., Mount Ayer, Iowa. Nut-lock	598,114	Feb. 1	74	17	82	617
Ridgely, Nellie A., Springfield, Ohio. Paper-trimmer	609,213	Aug. 16	1957	464	84	1063
Ridgway, Herbert N., Winthrop, Mass. Bicycle handle-bar	610,748	Sept. 13	1086	249	84	1668
Riecke, August, Baltimore, Md. Torpedo-exploder	606,685	July 5	91	19	84	20
Riedel, Frederick G. (See Zerffi and Riedel.)						
Riedel, Ludwig F. (See Limpach, Ludwig, assignor.)						
Rieder, Josef, Munich, Germany. Process of and apparatus for producing reliefs in metal	607,484	July 19	1771	368	84	383
Riehl, Peter, Jr., Pittsburg, Pa. Hose-coupling	603,366	May 3	206	47	83	641
Riehle, Frederick A. (See Robinson, Stillman W., assignor.)						
Rieke, Victor, Franklin, Minn. Stump-burner and insect-extermiator	612,675	Oct. 18	1925	456	85	393
Riemann, Friedrich L. A., Altona, Germany. Siphon delivery device for liquids	616,731	Dec. 27	2845	659	85	2019
Ries, Elias E., et al. (See Tyson, William G., assignor.)						
Ries, Elias E., New York, N. Y. Method of and means for manufacturing metal tubing	611,222	Sept. 20	1954	451, 452	84	1851
Ries, Frederick C., Macon, Ga. Stem winding and setting watch	612,913	Oct. 25	2366	564	85	496
Riess, William H., San Francisco, Cal. Fuel-burning attachment for stoves, &c	600,621	Mar. 15	1822	418	82	1605
Rife, Lewis F., Mount Sterling, Ohio. Corn-husking implement	608,303	Aug. 2	293	53	84	701
Rife, Uriah L., Newport, R. I. Bottle-stopper	612,676	Oct. 18	1926	456	85	393
Rigdon, Berryan C., and S. Dobson, near Lake Butler, Fla. Stump-puller	606,391	June 28	2531	587	83	1890
Rigg, Arthur, and J. C. Bayley, London, England. Air-pump for pneumatic tires	599,794	Mar. 1	204	51	82	1254
Rigg, Charles H. (See Hazelton and Rigg.)						
Rigg, Hiram F., Russellville, Pa. Bucket	608,304	Aug. 2	234	54	84	701
Rigg, James, London, England. Oscillating tippler	603,048	Apr. 26	2519	572, 573	83	522
Rigg, James W., Mount Carmel, Ill. Pulverizer	614,761	Nov. 22	2749	627	85	1194
Riggin, Henry H., Altoona, assignor of one-half to Watson & McDaniel Company, Philadelphia, Pa. Stop-valve	610,723	Sept. 13	1048	241	84	1661
Riggleman, Howard H., New London, Conn. Drawers-supporter	602,958	Apr. 26	2380	543	83	497
Riggs, Adolphus, Kennett, Mo. Saw-gumming machine	605,515	June 14	832	193, 194	83	1533
Righter, Frederick C. (See Copperfield, James D., assignor.)						
Righter, Thomas M., trustee. (See Edgar, Butler, assignor.)						
Righter, Thomas M., and G. Jeffries, Mount Carmel, Pa. Pipe-wrench	602,229	Apr. 12	1115	245	83	224
Rightmire, Raymond F., Parsons, W. Va. Dish-cleaner	607,134	July 12	988	204	84	199
Riker, Andrew L., New York, N. Y. Electric motor or dynamo	604,842	May 31	2952	675, 676	83	1256
Riker, Andrew L., New York, N. Y. Former for winding armature-coils	604,843	May 31	2953	676	83	1257
Riker, Andrew L., New York, N. Y. Armature-winding	612,977	Oct. 25	2466	588	85	517
Riley, Alfred J., Birmingham, England. Oil-lamp	614,984	Nov. 29	3188	733	85	1296
Riley, Hugh A. (See Watrous and Riley.)						
Riley, Hugh A., Hoosick Falls, assignor to D. J. Whelan, Troy, N. Y. Gutter-former	614,624	Nov. 22	2502	571, 572	85	1146
Riley, James L., Xenia, Ill. Pocket-holder for pencils	607,766	July 19	2255	477	84	473
Riley, John W., Ogden, Utah. Safety-envelop	603,969	May 10	1308	300	83	870



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Riley, Michael, London, Ohio. Railway-tie .....	605,233	June 7	327	75	83	1413
Riley, Michael, London, Ohio. Frogless switch .....	606,086	June 21	1952	449	83	1759
Riley, Thomas, Austin, Tex. Car-coupling .....	612,178	Oct. 11	1037	249	85	213
Riley, William, Colne, England. Folding box .....	613,315	Nov. 1	168	38	85	619
Riling, Joseph, assignor to S. B. Rowley, Philadelphia, Pa. Glass-press .....	612,140	Oct. 11	970	235	85	200
Rimmelin, Edward H., Galveston, Tex. Folding cot or bedstead .....	607,607	July 19	1986	412	84	421
Rinehart, George B. (See Beeman, William S., assignor.) .....						
Ring, Allan M., Arlington Heights, Mass. Fire-extinguisher .....	610,830	Sept. 13	1242	286	84	1700
Ring, Augustin, Fisher, Ill. Sap-spout .....	599,633	Feb. 22	2769	643	82	1187
Ring, Byron, San Francisco, and B. W. Stickney, Oakland, Cal. Renewing matrices .....	604,123	May 17	1646	369	83	969
Ring, Paul, assignor to Crane & King Oxygen Works, New York, N. Y. Apparatus for administering gas .....	597,781	Jan. 25	2288	535	82	494
Ringbom, Ossian A., Lahtis, Finland. Steam-engine .....	607,630	July 19	2034	422	84	431
Ringborg, Axel, Alexandria, Minn. Foot-propelled sled .....	613,940	Nov. 8	1262	286	85	877
Ringström, August V., Örebro, assignor to N. E. Frykholm, Stockholm, Sweden. Grinding, abrading, or cutting material and preparing same .....	604,569	May 24	2486	566	83	1148
Rink, William E., Newark, N. J. Tuck-creaser .....	601,857	Apr. 5	466	94	83	87
Rinke, Bert, Detroit, Mich. Beer-pipe cleaner .....	604,791	May 31	2872	656	83	1241
Rinner, Elijah C., and P. P. De Hart, Coshocton, Ohio. Self-basting baking or roasting pan .....	615,638	Dec. 6	783	181	85	1567
Ripley, Daniel C., Pittsburg, Pa. Manufacture of glassware .....	609,704	Aug. 23	2865	670	84	1258
Ripley, Nathaniel L., Newton, Mass. Crown-setting for jewels .....	611,279	Sept. 27	2079	479	84	1896
Ripley, Prentiss T., Cambridge, Mass. Coupling for bicycles .....	605,799	June 14	1366	313	83	1632
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Black trisazo dye .....	599,532	Feb. 22	2557	-----	82	1145
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Benzidin-orange .....	601,063	Mar. 22	2567	-----	82	1760
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Yellow dye and making same .....	613,911	Nov. 8	1216	-----	85	868
Ris, Christopher, and C. Simon, assignors to J. R. Geigy & Co., Basle, Switzerland. Black trisazo dye and making same .....	615,497	Dec. 6	539	-----	85	1517
Risbrough, Edward W., Philadelphia, Pa. Spinning-top .....	607,552	July 19	1891	391	84	404
Rischnmuller, George, San Francisco, Cal. Station-indicator .....	607,135	July 12	939	204	84	200
Risdon Iron and Locomotive Works. (See Barbour, Thomas J., assignor.) .....						
Risdon Iron and Locomotive Works. (See Jones, Edwards P., assignor.) .....						
Risdon Iron and Locomotive Works. (See Postlethwaite, Robert H., assignor.) .....						
Rising, Bradley D., et al. (See Wheat, Allen A., assignor.) .....						
Rising, Bradley D., Springfield, assignor of two-thirds to C. McKernon and A. A. Wheat, West Springfield, Mass. Rotary bleaching-boiler .....	604,086	May 17	1580	353	83	956
Risser, Jacob V., Attica, Ohio. Ribbon-holder .....	596,621	Jan. 4	289	64	82	58
Rissmuller, Ludwig, Philadelphia, Pa., assignor, by mesne assignments, to General American Reduction Company, New York, N. Y. Apparatus for treating garbage .....	600,597	Mar. 15	1788	409	82	1599
Rissmuller, Ludwig, Newark, N. J., assignor, by mesne assignments, to General American Reduction Company, New York, N. Y. Treating garbage and fertilizers obtained therefrom .....	611,580	Sept. 27	2651	-----	84	2002
Ritchey, Palmer A. (See Baker and Ritchey.) .....						
Ritchie, David A., Cambridge, Mass. Machine for cutting sheet metal .....	611,845	Oct. 4	442	106	85	89
Ritchie, Harvey W. (See Ritchie, John and H. W.) .....						
Ritchie, John and H. W., Cook county, Ill. Hydraulic steering mechanism for vessels .....	601,679	Apr. 5	100	20	83	21
Ritchie, John and H. W., Chicago, Ill. Reciprocating propeller for vessels .....	610,370	Sept. 6	445	97	84	1524
Ritchie, John and H. W., Chicago, Ill. Reciprocating propeller for vessels .....	610,371	Sept. 6	447	98	84	1524
Ritchie, Lizzie, Patchogue, N. Y. Washboard .....	603,410	May 3	288	64	83	655
Ritchie, Robert L., assignor of one-half to T. F. Jones, Walnut, Kans. Ironing-table .....	611,223	Sept. 20	1960	452	84	1852
Rittenhouse, Charles T. (See Bellman and Rittenhouse.) .....						
Rittenhouse, George W., and F. Miller, Indianola, Ill. Car-mover .....	607,885	July 26	2523	535	84	541
Ritter, Alexandre, Basle, Switzerland. Apparatus for drawing liquids .....	608,480	Aug. 2	555	124	84	765
Ritter, Frank, Rochester, N. Y. Dental chair .....	605,974	June 21	1728	397 } 398 }	83	1718
Ritter, Georg, Stuttgart, Germany. Telephonic installation .....	597,782	Jan. 25	2289	535	82	494
Ritter, Georg, Stuttgart, Germany. Conductor for electric railways .....	598,184	Feb. 1	197	46	82	640
Ritter, Georg, Stuttgart, Germany. Telephone system .....	611,581	Sept. 27	2652	611 } 612 }	84	2002
Ritter, George, Pinckneyville, Ill. Ironing-board .....	614,893	Nov. 29	2998	687	85	1257
Ritter, Hiram K., Reading, Pa. Clamp for rails .....	604,792	May 31	2873	656	83	1241
Ritter, John L., Shenandoah, and J. M. Moyers, assignors of one-third to J. G. Whitlock, Richmond, Va. Car-coupling .....	600,993	Mar. 22	2451	558 } 559 }	82	1728
Ritter, John L., Shenandoah, and L. H. Hazlewood, Richmond, assignors to said Ritter and J. G. Whitlock, Shenandoah, Va. Heating-stove .....	602,474	Apr. 19	1533	348 } 349 }	83	321
Ritter, Milton L. (See Schmick, Wilson E., assignor.) .....						
Ritter, Solomon H., Pottsgrove, Pa. Plow attachment .....	606,244	June 28	2263	522	83	1838
Ritzema, Thomas P., Blackburn, England. Linotype composing-machine .....	614,762	Nov. 22	2750	628	85	1194
Rively, John D., Pittsburg, Pa. Storage battery .....	608,714	Aug. 9	980	225 } 226 }	84	868
Rivers, Frank A. (See Hatfield and Rivers.) .....						
Riverside Iron Works. (See Boyd, Peter, assignor.) .....						
Rivett, Edward, Boston, Mass. Antifriction-bearing .....	608,916	Aug. 9	1360	319	84	938
Rivett, Edward, assignor of one-half to D. Hunt, Boston, Mass. Machine for cold-rolling balls .....	599,634	Feb. 22	2770	644	82	1188
Riviere, Walter P., Taylor, Tex. Stovepipe .....	606,581	June 28	2873	662	83	1959
Rix, Edward A., San Francisco, Cal. Air-valve .....	602,170	Apr. 12	1016	223	83	204
Rix, Edward A., San Francisco, Cal. Pneumatic pumping-engine .....	605,187	June 7	231	56	83	1394
Rixson, Oscar C., Chicago, Ill. Transom-lifter .....	601,104	Mar. 22	2625	599	82	1772
Roach, Henry B., Paris, assignor of one-half to G. F. and F. O. Hicks and J. Hale, Lamar county, Tex. Washing-machine .....	602,567	Apr. 19	1683	583	83	349
Roach, Jeremiah P. W., Concord, N. H. Switch-shifting mechanism for electric cars .....	614,133	Nov. 15	1596	366	85	965
Roach, Michael J., Anderson, Ind. Steam-joint for rotary cylinders .....	599,403	Feb. 22	2316	547	82	1099
Roach, Thomas N., Fort Wayne, Ind. Plumb-level .....	602,874	Apr. 26	2221	503	83	467
Road Breaking Company, (Voysey and Hosacks Patents.) (See Bomford and Evershed, assignors.) .....						
Roads, Charles B., Marion, Ohio. Filter .....	600,451	Mar. 8	1504	344	82	1524
Robards, Edward. (See Hollingsworth and Robards.) .....						
Roberts, Aaron, Warwick, N. Y. Hydraulic motor .....	600,173	Mar. 8	1050	237	82	1439
Robb, Fred D., Hot Springs, Ark. Underground electric-railway system .....	613,175	Oct. 25	2778	655	85	580
Robb, Marquis T., Granby, and A. J. Patterson, Wentworth, Mo. Casket-lowering device .....	614,763	Nov. 22	2751	628	85	1194
Robb, Herman D., Amsterdam, Netherlands. Continuous centrifugal separator .....	614,764	Nov. 22	2753	628 } 629 }	85	1194
Robbin, Frederick, Rochester, N. Y. Furnace .....	609,048	Aug. 16	1647	393	84	1006



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Robbins, Charles F., Aldrich, Ala. Hook and eye .....	601,816	Apr. 5	368	77	83	69
Robbins, Edward S., Parker, S. D. Display-rack .....	605,016	May 31	3240	745	83	1313
Robbins, George B. (See Norling and Johnson, assignors.) .....						
Robbins, James, Portland, Oreg. Fire-escape .....	598,294	Feb. 1	402	95	82	678
Robbins, John A. (See Weathers, James, assignor.) .....						
Robbins, John B., Minneapolis, Minn. Reusing old asphalt pavement .....	616,014	Dec. 13	1451	-----	85	1708
Robbins, Richard B., Adrian, Mich. Tool for attaching stays to wire fences .....	599,196	Feb. 15	1912	453	82	998
Robbins, Richard B., Adrian, Mich. Wire fence .....	613,078	Oct. 25	2631	622	85	550
Robbins, Richard B., Adrian, Mich. Fence-post .....	613,316	Nov. 1	169	38	85	649
Robert, Aimé, Gilly, Belgium. Locomotive .....	600,174	Mar. 8	1051	237	82	1439
Robert Holmes & Bros. (See Holmes, Robert, assignor.) .....						
Robertson, Charles G., Glasgow, Scotland, and J. J. Robertson, Leeds, England, assignors of one-third to G. E. Robertson, Montreal, Canada. Tire .....	611,280	Sept. 27	2081	479	84	1896
Robertson, George E. (See Robertson, Charles G. and J. J., assignors.) .....						
Robertson, James J. (See Robertson, Charles G. and J. J.) .....						
Roberts, Albert E., Norwalk, assignor of one-half to J. H. Clauss, Fremont, Ohio. Fence-making machine .....	604,905	May 31	3066	705	83	1278
Roberts, Albert E., Norwalk, assignor of one-half to J. H. Clauss, Cleveland, Ohio. Fence-making machine .....	604,906	May 31	3068	705	83	1279
Roberts, Benjamin E. (See Earl and Roberts.) .....						
Roberts, Charles. (See Brown, William E., assignor.) .....						
Roberts, Charles A., Rensselaer, Ind. Attachment for wagon-standards .....	614,134	Nov. 15	1597	366	85	965
Roberts, Charles E., Oak Park, Ill. Ball-bearing axle .....	598,535	Feb. 8	800	192	82	772
Roberts, Charles E., Oak Park, Ill. Tool for dressing emery-wheels .....	602,106	Apr. 12	895	194	83	181
Roberts, Charles E., Oak Park, Ill. Drive-wheel for motor-cycles .....	609,834	Aug. 30	3086	720	84	1315
Roberts, Charles E., Oak Park, Ill. Ball-bearing .....	609,835	Aug. 30	3087	720	84	1315
Roberts, Charles E., Oak Park, Ill. Bearing for wheels .....	610,331	Sept. 6	371	78	84	1511
Roberts, Charles S., New Haven, Conn. Sash-fastener .....	612,869	Oct. 25	2296	547	85	482
Roberts, Charles V., Philadelphia, Pa. Filter .....	600,651	Mar. 15	1866	426	82	1614
Roberts, Charles W., New Orleans, La., assignor to W. Preston, New York, N. Y. Street-railway-operating mechanism .....	611,819	Oct. 4	396	95	85	79
Roberts, Clarence V., assignor to Thomas Roberts Stevenson Company, Philadelphia, Pa. Handle for movable portions of stoves .....	597,618	Jan. 18	1998	466	82	424
Roberts, Edward, and J. Davis, Motherwell, Scotland, assignors to T. N. Turner, Langley Mill, England. Apparatus for rolling railway-carriage wheels .....	611,793	Oct. 4	347	83, 84	85	70
Roberts, Edward E., assignor to Roberts Safety Water Tube Boiler Company, Red Bank, N. J. Steam-generator .....	601,004	Mar. 22	2472	563	82	1741
Roberts, Frank C., Philadelphia, Pa. Hot-blast stove .....	614,894	Nov. 29	2999	687	85	1257
Roberts, Frank C., Philadelphia, Pa. Blast-furnace-charging apparatus .....	616,494	Dec. 27	2397	555, 556	85	1933
Roberts, George C. (See Moe, Buell, Roberts, and Conkling.) .....						
Roberts, George I., New Rochelle, N. Y. Steam-separator .....	604,844	May 31	2955	677	83	1257
Roberts, George P., Fremont, Ohio. Chalk-holder .....	601,779	Apr. 5	306	60	83	58
Roberts Goss Company. (See Fletcher, William J., assignor.) .....						
Roberts, Isaiah L., Niagara Falls, assignor to himself, and E. N. Dickerson, New York, N. Y. Preserving carbids .....	601,064	Mar. 22	2567	585	82	1760
Roberts, James F. (See Jackson, Anthony W., assignor.) .....						
Roberts, James H., Grand Rapids, Mich. Electrical appliance for elevators .....	615,365	Dec. 6	265	62	85	1465
Roberts, John E. (See Bently and Roberts.) .....						
Roberts, John R., Homer City, Pa. Incubator .....	603,859	May 10	1127	253, 254	83	835
Roberts, Josephus. (See Sparks, William H., assignor.) .....						
Roberts, Lindley H. (See Edgerton and Roberts.) .....						
Roberts Machine Company. (See Roberts, Milton O., assignor.) .....						
Roberts, Milton O., assignor to Roberts Machine Company, Collegeville, Pa. Water-heater or boiler .....	596,717	Jan. 4	466	106, 107	82	91
Roberts, Milton O., assignor to Roberts Machine Company, Collegeville, Pa. Water-heater or steam-boiler .....	596,718	Jan. 4	468	107	82	91
Roberts, Ozias F., Jacksonville, Fla. Pipe-wrench .....	610,831	Sept. 13	1243	286	84	1700
Roberts Safety Water Tube Boiler Company. (See Roberts, Edward E., assignor.) .....						
Roberts, Thomas H., Detroit, Mich. Air-compressor .....	597,223	Jan. 11	1332	311	82	274
Roberts, Throp & Company. (See Donovan, James, assignor.) .....						
Roberts, William, and M. Bevan, Plymouth, Pa. Artificial foot .....	598,230	Feb. 1	281	63	82	656
Roberts, Woodbury D., Portland, Oreg. Lock .....	602,144	Apr. 12	966	211	83	194
Robertson, Edwin L., Mobile, Ala. Combination-dresser .....	612,058	Oct. 11	830	203	85	172
Robertson, Elizabeth F., Bristol, Fla. Insect-extermiator .....	599,404	Feb. 22	2318	547	82	1099
Robertson, Frederick C., Toronto, Canada. Circuit-breaker .....	597,700	Jan. 18	2143	500	82	449
Robertson, Frederick W., Newark, England. Saw-sharpener .....	616,587	Dec. 27	2551	590	85	1961
Robertson, Hugh R., Alameda, Cal. Lumber or timber raft .....	607,956	July 26	2644	562	84	564
Robertson, James L. (See Bowne, John D., assignor.) .....						
Robertson, James P., Sydney, New South Wales. Box-fastener .....	612,572	Oct. 18	1729	410	85	356
Robertson, James P., Sydney, New South Wales. Tray attachment for bottles .....	616,013	Dec. 13	1451	339	85	1708
Robertson, James U., assignor of one-half to E. M. Valentine, Philadelphia, Pa. Domestic garbage-cremator .....	614,180	Nov. 15	1665	383	85	978
Robertson, John H., New York, N. Y. Road-bed construction .....	611,820	Oct. 4	399	95	85	79
Robertson, John H., New York, N. Y. Electric-railway conduit and trolley .....	611,821	Oct. 4	400	95	85	79
Robertson, Mary E., Charlottesville, Va. Bolt-lock .....	611,941	Oct. 4	603	146	85	118
Robertson, Ronald J., Chelsea, Mass. Filter .....	598,115	Feb. 1	75	17	82	617
Robertson, William M. (See McBurney and Robertson.) .....						
Robertson, William T., Washington, D. C., assignor to J. T. Underwood, Brooklyn, N. Y. Type-writer .....	605,516	June 14	833	194	83	1533
Robinson, Alfred B., et al. (See Bennum, George W., assignor.) .....						
Robinson, Andrew J., Boston, Mass. Ball-cock .....	609,629	Aug. 23	2745	638	84	1235
Robinson, Aquila S., Camden, N. J. Fence .....	609,369	Aug. 16	2236	529	84	1120
Robinson, C. E. (See Williams, William E., assignor.) .....						
Robinson, Celinda P. (See Outlaw, John W., assignor.) .....						
Robinson, Celinda P., et al. (See Rider, Herbert E., assignor.) .....						
Robinson, Charles W., Saginaw, Mich. Hub .....	607,082	July 12	852	184	84	184
Robinson Chilled Plow Company. (See Robinson, Edson C., assignor.) .....						
Robinson, Cornelia S., New York, N. Y. Garbage-closet .....	606,087	June 21	1954	449	83	1759
Robinson, Cory E. (See Williams, William E., assignor.) .....						
Robinson, Cory E., Chicago, Ill. Woven stay wire fence .....	596,544	Jan. 4	145	33	82	30
Robinson, Cory E., Joliet, Ill. Stay-wire fence .....	611,648	Oct. 4	101	25	85	22
Robinson, Dighton A. (See Simpson, John, assignor.) .....						
Robinson, Duportal D., Niles, Mich. Device for removing tires .....	597,297	Jan. 11	1438	337	82	295



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Robinson, Edson C., assignor to Robinson Chilled Plow Company, Canandaigua, N. Y. Hillside or reversible plow	615,908	Dec. 13	1236	289 290	85	1666
Robinson, Edward H. (See Robinson, Robert and E. H.)						
Robinson, Elbert R., Chicago, Ill. Trolley-wheel	600,890	Mar. 22	2283	520 521	82	1706
Robinson, Frank E., New York, N. Y. Binder for leaves	605,975	June 21	1733	399	83	1719
Robinson, Frank T., Chicago, Ill. Bottle-stopper	599,112	Feb. 15	1776	422	82	974
Robinson, George H. (See Hesse, Gustaf E., assignor.)						
Robinson, George W., and L. Stelzer, Walbert, Mo. Folding chicken-coop	610,610	Sept. 13	864	198	84	1623
Robinson, Hanson, Baltimore, Md., assignor, by mesne assignments, to United States Standard Machine Company, of New Jersey. Machine for making all-tobacco cigarettes	610,280	Sept. 6	267	56 57 58 59	84	1494
Robinson, J. F. C. (See Anderson, Edward, assignor.)						
Robinson, James E., Chicago, Ill., assignor to A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Forming celluloid or similar open-seam coverings	607,415	July 12	1460	309	84	298
Robinson, James E., Chicago, Ill., assignor to A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Applying celluloid or other like coverings to hollow metal tubes	607,416	July 12	1461	310	84	298
Robinson, James W. (See Dutt, David, assignor.)						
Robinson, James W. (See Knee and Robinson.)						
Robinson, John, assignor of one-half to G. H. Beck, Philadelphia, Pa. Expansion-chuck	599,255	Feb. 15	2009	477	82	1017
Robinson, John G., Warsaw, Ky. Automatic wagon-brake	605,135	June 7	122	31	83	1374
Robinson, John K. (See Steffens, Mathew J., assignor.)						
Robinson, Joseph, assignor to E. Wells and P. Crossman, Ipswich, England. Pneumatic tire	611,510	Sept. 27	2516	581	84	1977
Robinson, Robert and E. H., Chicago, Ill. Hot-air furnace	605,517	June 14	834	194	83	1533
Robinson, Robert J., and W. A. Nelden, Salt Lake City, Utah. Wave-motor	606,632	June 28	2962	687	83	1975
Robinson, Robert M. (See Watson, Peter B., assignor.)						
Robinson, Rupert, Sheffield, England. Construction of boxes	611,511	Sept. 27	2517	581	84	1977
Robinson, Samuel A. (See Harrison and Robinson.)						
Robinson, Stephen A., Logan, Kans., assignor of one-half to L. McCormack, Indianapolis, Ind. Fastener for end-gates	616,588	Dec. 27	2552	590	85	1961
Robinson, Stephen D., and B. M. Doud, Farmingdale, S. D. Wrench	597,743	Jan. 25	2213	515	82	481
Robinson, Stillman W., Columbus, Ohio, assignor to F. A. Riehle, Philadelphia, Pa. Transmission-dynamometer	597,567	Jan. 18	1916	446	82	408
Robinson, Stillman W., and H. J. Detmers, Columbus, Ohio. Hypodermic syringe	600,803	Mar. 15	2129	486	82	1664
Robinson, Virgil, Norwich, N. Y. Locomotive journal-box	599,151	Feb. 15	1843	437	82	986
Robinson, W. Waldo, <i>et al.</i> (See Sullivan, Michael E., assignor.)						
Robinson, Walter H., New York, N. Y., and E. J. Lawless, Orange, N. J. Wrench	605,746	June 14	1245	288	83	1609
Robinson, William, <i>et al.</i> (See Manny, Eugene S., assignor.)						
Robinson, William D., Philadelphia, Pa. Back-pedaling brake	613,477	Nov. 1	493	110	85	709
Robinson, William M. (See Flatau, Louis S., assignor.)						
Robinson, William N. (See Millar and Robinson.)						
Robinson, William R., Cleveland, Ohio. Fireproof structure	610,832	Sept. 13	1244	287	84	1700
Robinson, William R., Cleveland, Ohio. Fireproof structure	610,833	Sept. 13	1246	287	84	1701
Robinson, William S., Fancy Farm, Ky. Ball-bearing for vehicles	599,866	Mar. 1	367	82	82	1282
Robinson, William V. (See Keep and Robinson.)						
Robischung, Henry B., Kalamazoo, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	605,800	June 14	1367	313	83	1632
Robison, Elmer E., Ainger, Ohio. Bicycle-brake	600,045	Mar. 1	761	173	82	1362
Robison, Elmer S. (See Cornell and Robison.)						
Robison, John K. (See Manning and Robison.)						
Roby, George L., Grand Haven, assignor to Gale Manufacturing Company, Albion, Mich. Hand-cultivator	611,649	Oct. 4	102	25	85	22
Roby, George L., Grand Haven, assignor to Gale Manufacturing Company, Albion, Mich. Seeding-machine	611,650	Oct. 4	103	25, 26	85	23
Roby, George L., Grand Haven, assignor to Gale Manufacturing Company, Albion, Mich. Hand-cultivator	611,651	Oct. 4	104	26	85	23
Roby, Giles C. (See Roby, Leroy H. and G. C.)						
Roby, Leroy H. and G. C., Fostoria, Ohio. Convertible piano stool and chair	602,773	Apr. 19	2039	462	83	417
Rochat, Arthur, Goldengate, Cal. Saucepan	601,589	Mar. 29	3477	792	82	1965
Roche, Andrew J. (See Cochran, John R., assignor.)						
Roche, David, London, England. Fire-escape	607,083	July 12	853	184	84	184
Roche, John W., assignor of one-half to J. Berns, Kearny, N. J. Device for leveling tables, &c.	600,235	Mar. 8	1146	261	82	1459
Rochester Athenaeum and Mechanics Institute. (See Murray, William W., assignor.)						
Rochester Bunting Apparatus Company. (See Stahl, Rudolph F., assignor.)						
Rochester Germicide Company. (See Calkins, Daniel N., assignor.)						
Rochette, Delia. (See Manny, Emilian A., assignor.)						
Rocholl, Charles, assignor to Westminster Manufacturing Company, Limited, London, England. Grooved pulley	606,794	July 5	301	63	84	60
Rocholl, Charles, assignor to Westminster Manufacturing Company, Limited, London, England. Pulley	610,724	Sept. 13	1050	241	84	1661
Rochwite, August, assignor of one-half to W. R. Hammond, Wautoma, Wis. Door-hanger	611,395	Sept. 27	2310	533	84	1937
Rock, Ferdinand, Grand Forks, N. D., assignor to A. M. Clausen, St. Paul, Minn. Door-check	598,664	Feb. 8	1027	248	82	814
Rock Island Plow Company. (See Head and Regester, assignors.)						
Rock Island Plow Company. (See Waterman, Lewis E., assignor.)						
Rockey, Glendon M., and C. H. Strain, Dayton, Ohio. Combination-tool	602,524	Apr. 19	1612	369	83	336
Rockhill, Edward W., <i>et al.</i> (See Rockhill, James W., assignor.)						
Rockhill, James W., Fort Wayne, assignor to E. W. and M. R. Rockhill, Allen county, Ind. Fence-post	613,478	Nov. 1	495	111	85	709
Rockhill, Mary R., <i>et al.</i> (See Rockhill, James W., assignor.)						
Rockström, Axel L., Norberg, Sweden. Pressure-regulator for liquid sterilizers	606,738	July 5	180	40	84	37
Rockwell, Edward D., assignor to Bristol Bell Company, Bristol, Conn. Bicycle-bell clamp	616,015	Dec. 13	1452	340	85	1708
Rockwell, Edward D., assignor to Bristol Bell Company, Bristol, Conn. Bicycle-bell	616,732	Dec. 27	2846	659	85	2020
Rockwell, Frederick C., <i>et al.</i> (See Bullock, William J., assignor.)						
Rockwell, Frederick C., Hartford, Conn. Handle-bar for bicycles	599,359	Feb. 22	2228	529	82	1081
Rockwell, Stephen L. (See Brackett, Cephas W., assignor.)						
Rockwood, George I., Worcester, Mass. Hot-blast radiator	604,217	May 17	1816	408	83	1002
Rockwood, William H., New York, N. Y. Fishing-bait	614,411	Nov. 15	2118	487	85	1063
Rodd, Fredrick W., Cleveland, Ohio. Automatic ball-grinding machine	598,536	Feb. 8	801	192	82	772
Rodefild, August, Richmond, Ind. Tool for cutting pipe	598,159	Feb. 1	144	33	82	630



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Rodenbach, George H., Devil's Lake, N. D. Clothes-pounder .....	613,019	Oct. 25	2530	602	85	530
Roderick, Rees, Hirwain, England. Nursing-bottle .....	598,231	Feb. 1	281	63	82	656
Roderick, Thomas. (See Gray and Roderick.)						
Rodgers, Ashmead G. (See Humphrey, Walter B., assignor.)						
Rodgers, Commodore, Fairview, assignor of one-half to W. P. Nesbit, Piedmont, S. C. Cultivator attachment .....	600,175	Mar. 8	1052	237	82	1440
Rodgers, James G., Springfield, Ohio. Rubber tire .....	599,733	Mar. 1	93	22	82	1234
Rodgers, James G., Springfield, Ohio. Vehicle-tire .....	609,948	Aug. 30	3279	764	84	1353
Rodgers, John, Wilmerding, assignor of one-half to A. G. Holmes, Pittsburg, Pa. Tur- ret-lathe .....	596,830	Jan. 4	660	152 153	82	128
Rodier, Edmond, New York, N. Y. Non-refillable bottle .....	604,845	May 31	2958	677	83	1257
Rodier, Flavie M., administratrix. (See Rodier, Peter.)						
Rodier, Peter, deceased, Springfield, Mass.; F. M. Rodier, administratrix. Skate .....	597,744	Jan. 25	2214	516	82	481
Rodrick, John S. L., Washington, D. C. Furnace .....	510,085	Aug. 30	3522	816	84	1401
Rodwell, George. (See Moore and Rodwell.)						
Roe, Frederick W., Stonehenge, Tasmania. Vermin-trap .....	609,168	Aug. 16	1871	445	84	1046
Roe, John A., Sewickley, Pa. Balance for oven-doors .....	614,765	Nov. 22	2755	629	85	1195
Roerber, Herman, Kiel, Wis. Pessary .....	614,895	Nov. 29	3000	687	85	1257
Roebuck, Alvah C., Chicago, Ill. Adjustable sign and frame .....	596,831	Jan. 4	663	153	82	129
Roemer, Joseph. (See Lahann, Heinrich F. M., assignor.)						
Roemer, William, Newark, N. J. Bag or satchel frame .....	613,912	Nov. 8	1217	278	85	868
Roemheld, Jules E., Chicago, Ill. Pinion-bracket for turn-tables .....	605,914	June 21	1612	371	83	1697
Roenisch, Bruno. (See Zimmer and Roenisch.)						
Roepper, Charles W. (See Richards and Roepper.)						
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, of New Jersey. Temperature-regulator .....	602,107	Apr. 12	896	194	83	181
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, of New Jersey. Diaphragm-chamber .....	602,108	Apr. 12	898	195	83	182
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, of New Jersey. Automatic temperature-regulator .....	616,141	Dec. 20	1715	398	85	1776
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, of New Jersey. Temperature-regulating apparatus .....	616,142	Dec. 20	1718	398	85	1776
Roesch, Jacob M. (See Lang, Benjamin P. M., assignor.)						
Roesler, William. (See Wade, John J., assignor.)						
Roessler & Hasslacher Chemical Company. (See Bauschlicher, August, assignor.)						
Roessler, William. (See Mayer, Daniel, assignor.)						
Roger, George, Warrington, England. Apparatus employed in cutting the pile of weft pile fabrics .....	597,619	Jan. 18	1999	466	82	424
Roger, George, Warrington, England. Apparatus for cutting the pile of weft pile fabrics .....	597,620	Jan. 18	2000	466	82	424
Roger, George, Warrington, England. Mechanism for cutting the pile of weft pile fabrics .....	597,658	Jan. 18	2067	484	82	437
Roger, John, Denver, Colo. Cooling-chamber for ore-furnaces .....	600,293	Mar. 8	1247	284 285	82	1477
Rogers, Alexander H., Galveston, Tex. Station-indicator .....	610,415	Sept. 6	522	114	84	1539
Rogers, Charles C., assignor to Brockton Folding Machine Company, Brockton, Mass. } Leather-snipping machine .....	616,733	Dec. 27	2847	659 660	85	2020
Rogers, Charles H., New York, N. Y. Railway-tie and rail-clamp .....	601,105	Mar. 22	2627	599 600	82	1772
Rogers, Charles W., Newmarket, N. H. Bicycle-support .....	598,009	Jan. 25	2680	625	82	570
Rogers, Elizabeth. (See Burnham, George H., assignor.)						
Rogers, Frank F. (See Eyster, Elmer E., assignor.)						
Rogers, Frank G., and F. Thompson, assignors to Giant See-Saw Company, Nashville, Tenn. Seesaw .....	612,993	Oct. 25	2490	593	85	522
Rogers, George B., et al. (See Elliott, Thomas, assignor.)						
Rogers, George R., Parkersburg, Ind. Gate .....	607,386	July 12	1407	300	84	289
Rogers, Harrison, et al. (See Moore, Llewellyn C., assignor.)						
Rogers, Henry R., New York, N. Y., assignor, by mesne assignments, of one-half to M. } E. Cauldwell, South Orange, N. J. Proof-taking and type-bar-casting machine .....	613,724	Nov. 8	891	206 207	85	806
Rogers, Herman A., et al. (See Scott, Charles S., assignor.)						
Rogers, J. S., New York, N. Y. Steam-boiler .....	612,933	Oct. 25	2399	571	85	503
Rogers, James H., Bladensburg, Md. Telephone-transmitter .....	599,867	Mar. 1	369	82	82	1282
Rogers, James P., Kyle, Tex. Automatic bench clamp and dog .....	603,970	May 10	1309	300	83	871
Rogers, John, Kansas City, Kans. Lubricating journal-box .....	602,959	Apr. 26	2381	543	83	498
Rogers, John H., Moorefield, W. Va. Vehicle-brake .....	596,911	Jan. 4	788	185	82	154
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine .....	615,909	Dec. 13	1238	290 291	85	1667
Rogers, Lewis H., Los Angeles, Cal. Surgical instrument .....	616,259	Dec. 20	1945	452	85	1824
Rogers, Noah C. (See Van Hoevenbergh, Henry, assignor.)						
Rogers, Omar A. (See Mott, George H., assignor.)						
Rogers, Omar A., West Union, assignor of one-half to G. H. Mott, Fayette county, Iowa. Duplex stay for bucksaws .....	599,795	Mar. 1	206	51	82	1254
Rogers, Percy S., Boston, Mass. Automatic switch .....	601,045	Mar. 22	2534	576	82	1754
Rogers, Theodore G. S. (See Davy and Rogers.)						
Rogers, Thomas J. (See McNeil and Rogers.)						
Rogers, William, Leechburg, assignor of one-half to J. A. Beaver, Bellefonte, Pa. Proc- ess of and apparatus for manufacturing tin-plate .....	604,195	May 17	1779	401	83	996
Rogers, Winfield S., Cincinnati, Ohio. Friction-clutch .....	597,434	Jan. 18	1689	391	82	361
Rogers, Winfield S., Cincinnati, Ohio. Motion-reversing device .....	597,435	Jan. 18	1691	392	82	362
Rogers, Yubie W., St. Louis, Mo. Dinner-pail .....	607,084	July 12	854	185	84	184
Rohde, William J. (See Davis, Henry E., assignor.)						
Rohdin, Carl A., Seffe, Sweden. Packing-case for bottles .....	596,944	Jan. 4	854	200	82	166
Röhl, Hans. (See Diefenthaler and Röhl.)						
Röhl, Hermann, and H. Usedom, Neubrandenberg, Germany. Apparatus for removing butter, &c .....	604,124	May 17	1647	369	83	969
Rohlin, John, assignor of one-half to A. E. Shaw, Eureka, Kans. Nut-lock .....	606,582	June 28	2874	662	83	1959
Rohlin, John, assignor of one-half to A. E. Shaw, Eureka, Kans. Railway-rail joint .....	612,059	Oct. 11	831	204	85	173
Rohm, Henry A. (See Stenger and Rohm.)						
Rohn, George T., Hersman, Ill. Car-coupling .....	606,583	June 28	2875	662	83	1959
Rohrer, Oscar A., Waverly, Ill. Lifting-jack .....	613,317	Nov. 1	170	38	85	649
Rohrer, William W. (See Walters and Rohrer.)						
Röhrig, Paul. (See Hülssner and Röhrig.)						
Roland, Clifford B. (See Thayer and Roland.)						
Roland, W. R. (See Dove, Thoms F., assignor.)						
Rolator, Joseph B. (See Barber and Ashby, assignors.)						
Rolfe, Spencer, Teddington, assignor of one-half to F. Hornby, Boscombe, England. Ex- plosion-engine .....	597,860	Jan. 25	2426	565	82	521



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Rolle, Max, Philadelphia, Pa. Ventilating-fan.....	610,851	Sept. 13	1273	294	84	1706
Rolle, Max Philadelphia Pa. Ventilating-fan.....	610,852	Sept. 13	1274	294 (295)	84	1706
Rollert, Anton J. (See Fischer and Rollert.)						
Rollert, Anton J., assignor to Theodore A. Kochs Company, Chicago, Ill. Barber's chair.....	598,877	Feb. 8	1367	330	82	880
Rollheuser, Albert, Milwaukee, Wis. Malted food compound.....	596,945	Jan. 4	854		82	166
Rollins, Frank C. (See Stockbridge and Rollins.)						
Rollins, Fredrick A., Cambridge, Mass. Metal-bending machine.....	601,403	Mar. 29	3181	718	82	1904
Rollins, George H., Pittsville, Wis. Stump-extractor.....	605,586	June 14	961	223	83	1557
Rollins, Joseph, Birnamwood, Wis. Rotary excelsior-machine.....	608,430	Aug. 2	474	107	84	750
Rollins, Robert W., Hartford, Conn. Electric clock-controlled switch mechanism.....	605,915	June 21	1613	371	83	1697
Rollman, George D., Dayton, Ohio. Automatic switch for street-railways.....	608,560	Aug. 2	692	157	84	793
Rollo, Louie C. (See Dudley, John W., assignor.)						
Rolph, Henry E., assignor of one-half to J. D. Burt, St. Paul, Minn. Brake for vehicles.....	603,015	Apr. 26	2470	561	83	513
Rolston, Louis B., <i>et al.</i> (See Sterne, Alfred J., assignor.)						
Rolston, William H., <i>et al.</i> (See Sterne, Alfred J., assignor.)						
Rom, Hermann von. (See Henkel and Rom.)						
Romaine, De Witt, <i>et al.</i> (See Johansson, Gustaf, assignor.)						
Roman, Reinhard I., London, England. Jointing for tubes.....	608,715	Aug. 9	982	226	84	868
Romans, John G W., Weymouth, and A. D. Grover, Malden, Mass. Fraud-preventing device for coin-controlled machines.....	603,741	May 10	896	199	83	791
Rome Metallic Bedstead Company. (See Merritt and Groff, assignors.)						
Romme, William S., New Rochelle, N. Y. Process of and apparatus for decomposing solid substances.....	606,981	July 5	598	131	84	119
Romuender, William, Milwaukee, Wis. Detachable sash.....	601,680	Apr. 5	101	20	83	22
Rondell, Carl, Minneapolis, Minn. Bundle-carrier for bicycles.....	605,188	June 7	223	56	83	1395
Roney, Alexander B., assignor to himself and J. Roney, Chicago, Ill. Drum-wind elevator.....	603,599	May 3	645	144	83	727
Roney, James. (See Roney, Alexander B., assignor.)						
Roney, John H., <i>et al.</i> (See De Forest, Charles D., assignor.)						
Ronson, Robert, Brooklyn, N. Y. Ladder.....	596,545	Jan. 4	148	33	82	31
Rood, Charles F., Ford, Ky. Sawing-machine.....	603,541	May 3	554	122	83	708
Rood, Hugh R. (See Rood, Vernon D. and H. R.)						
Rood, Vernon D. and H. R., San Diego, Cal. Machine for applying compounds for protecting piling, timbers, &c.....	611,208	Sept. 20	1916	442 (443)	84	1844
Rood, Vernon H., assignor of one-half to Jeanesville Iron Works Company, Jeanesville, Pa. Adjustable cut-off for steam-pumps.....	610,975	Sept. 20	1492	340	84	1764
Rooney, James H., assignor of one-third to F. Starring, Detroit, Mich. Car-brake.....	596,666	Jan. 4	368	81	82	73
Rooney, Patrick B., New York, N. Y. Bed.....	605,136	June 7	124	31, 32	83	1375
Roop, Amos. (See Brandon and Roop.)						
Roop, Perry, <i>et al.</i> (See Doyle, George M., assignor.)						
Roos, Edward, assignor to Beatty Felting Co., Mishawaka, Ind. Wool boot.....	602,407	Apr. 12	1414	319	83	285
Roos, Israel, Frankfort-on-the-Main, Germany. Making salts of paramidophenol.....	602,109	Apr. 12	900		83	183
Roosa, Walter P., Waterbury, Conn. Stair-builder's gage.....	597,915	Jan. 25	2510	587	82	536
Root, Charles T., <i>et al.</i> (See Mitchell, Frank H., assignor.)						
Root, Francis S., Suffield, Conn. Self-folding parcel-carrier.....	607,277	July 12	1218	260	84	252
Root, George I., Ottawa, Canada. Mechanical movement.....	598,681	Feb. 8	1058	255	82	820
Roper, Charles F., Hopedale, Mass., assignor to Draper Company, Portland, Me. Apparatus for making crank-shafts.....	604,267	May 17	1911	428	83	1021
Rosamond, Frank E., assignor to Continental Cotton Seed Company, Memphis, Tenn. Cotton-seed-delinting machine.....	597,125	Jan. 11	1178	276	82	245
Rosamond, John S., assignor to Continental Cotton Seed Company, Memphis, Tenn. Cotton-seed delinter.....	597,123	Jan. 11	1169	275	82	243
Rosamond, John S., assignor to Continental Cotton Seed Company, Memphis, Tenn. Cotton-seed delinter.....	597,124	Jan. 11	1173	275 (276)	82	245
Rosander, Robert A. W., and J. R. Pearson, assignors of thirteen-twentieths to F. C. Gaffney, Brooklyn, N. Y. Cash-register.....	601,681	Apr. 5	102	20 (257)	83	22
Rosback, Frederick P., assignor to W. P. Healy, Chicago, Ill. Machine for making box-blanks.....	608,796	Aug. 9	1112	258 (259 260 320)	84	892
Rosback, Frederick P., assignor to W. P. Healy, Chicago, Ill. Box nailing and printing machine.....	608,917	Aug. 9	1361	321 (322 323 639)	84	939
Rosback, Frederick P., assignor to W. P. Healy, Chicago, Ill. Machine for step-mitering and printing box-blanks.....	609,630	Aug. 23	2746	640 (641 461)	84	1235
Rosback, Frederick P., assignor to W. P. Healy, Chicago, Ill. Machine for making box-blanks.....	614,348	Nov. 15	1996	462 (463)	85	1040
Rosbrook, Charles J., and S. Burnham, Dixon, Ill. Curtain for vehicles.....	603,512	May 3	502	110	83	698
Rösch, Arthur. (See Engel, Hugo, assignor.)						
Roscher, Gustav, <i>et al.</i> (See Kleber, Emil, assignor.)						
Rose, Dickinson L., Mankato, Minn. Speed-measurer.....	606,767	July 5	256	54	84	52
Rose, Downs & Thompson. (See Hopwood, John H., assignor.)						
Rose, Frank H. (See Morgan and Rose.)						
Rose, George W., New Bedford, Ill. Garden-cultivator.....	614,027	Nov. 8	1398	320 (321)	85	905
Rose, Georges. (See Rose, Henri and G.)						
Rose, Henri and G., Poissy, France. Granulating-disk.....	605,452	June 7	740	168	83	1495
Rose, Henry J., Hythe, and W. Gilbert-Cooper, Dover, England. Military equipment.....	608,481	Aug. 2	557	124	84	766
Rose, Joseph F., Tiverton, R. I. Salt-cellar.....	616,143	Dec. 20	1719	399	85	1777
Rose, Newton A., and A. Pratt, Fitchburg, Mass. Dust-pan.....	598,116	Feb. 1	76	18	82	617
Rose, Nicholas M., assignor of one-half to P. N. Hudspeth, Bowie, Tex. Dental chair.....	596,667	Jan. 4	369	82	82	73
Rose, Oren, Gibson, N. Y. Shipping-crate.....	611,281	Sept. 27	2084	480	84	1896
Rose, Orlando, Crown Point, Ind. Safety attachment for firearm-locks.....	611,977	Oct. 4	663	161	85	129
Rose, Samuel S., Amador City, Cal. Rotary engine.....	609,049	Aug. 16	1648	393 (394)	84	1007
Rose, William G. (See Smart, Herbert D., assignor.)						
Rose, William H., Baltimore, Md. Photographic developing-tray.....	607,485	July 19	1773	369	84	383
Rosegrant, Harry J. (See Moore and Rosegrant.)						
Rosenbaum, Morris. (See Kelso and Rosenbaum.)						
Rosenberg, Albert, Baltimore, Md. Spittoon.....	604,218	May 17	1817	408	83	1003



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Rosenberg, Albert, Baltimore, Md. Water-motor	606,361	June 28	2477	575	83	1880
Rosenberg, Barney. (See Levinson and Rosenberg.)						
Rosenberg, Ignaz. (See Elbel and Rosenberg.)						
Rosenberg, Ignaz, assignor to Kalle & Co., Biebrich, Germany. Deep-blue dye and making same	613,642	Nov. 1	747		85	759
Rosenberg, Ignaz, assignor to Kalle & Co., Biebrich, Germany. Black polyazo dye	613,645	Nov. 1	749		85	759
Rosenberg, Ignaz, and K. Elbel, assignors to Kalle & Co., Biebrich, Germany. Greenish-blue polyazo dye	613,640	Nov. 1	745		85	758
Rosenberg, Ignaz, and F. Krecke, assignors to Kalle & Co., Biebrich, Germany. Greenish-blue mixed disazo dye	613,641	Nov. 1	746		85	759
Rosenberg, Ignaz, and F. Krecke, assignors to Kalle & Co., Biebrich, Germany. Substantive disazo dye	613,646	Nov. 1	750		85	759
Rosenberg, Ignaz, and B. Helmert, assignors to Kalle & Co., Biebrich, Germany. Orange-brown polyazo dye	613,643	Nov. 1	747		85	759
Rosenberg, Ignaz, and B. Helmert, assignors to Kalle & Co., Biebrich, Germany. Reddish-brown polyazo dye	613,644	Nov. 1	748		85	759
Rosenberg, Meyer, Brooklyn, N. Y. Device for preventing fraudulent refilling of bottles	604,545	May 24	2439	554	83	1138
Rosenblatt, Nicholas, and S. Ahscharumoff, St. Petersburg, Russia. Elastic wheel for carriages	603,154	Apr. 26	2710	616	83	560
Rosenbluth, Edwin M., Philadelphia, Pa. Lantern	606,028	June 21	1834	423	83	1736
Rosenbluth, Edwin M., Philadelphia, Pa. Lantern	609,558	Aug. 23	2581	604	84	1203
Rosenbluth, Max. (See Josephs, Adolf, assignor.)						
Rosencrantz, William D., Hohokus, N. J., assignor to Draper Company, Portland, Me. Spindle	614,896	Nov. 29	3000	688	85	1257
Rosendahl, John, Delhi, Minn. Combined wrench and nippers	597,592	Jan. 18	1960	456	82	416
Rosenfeld, Carl, New York, N. Y. Refuse-cart	613,779	Nov. 8	993	227	85	826
Rosenfeld, Carl, New York, N. Y. Refuse-cart	613,780	Nov. 8	994	227	85	826
Rosengarten, William, assignor to C. E. Lloyd, Philadelphia, Pa. Safety device for window-cleaners	615,498	Dec. 6	540	123	85	1517
Rosenheim, Otto. (See Schidrowitz and Rosenheim.)						
Rosenkranz, John C., New York, N. Y., assignor to Universal Buckle Company. Buckle	616,359	Dec. 20	2131	496	85	1862
Rosenstar, Anders P. A., Brooklyn, assignor to G. W. Dietz & Co., New York, N. Y. Hydrocarbon-burner	607,136	July 12	942	204	84	200
Rosensteel, William W., Mineral Ridge, Ohio. Car-wheel	603,600	May 3	646	144	83	727
Rosenstein, Albert. (See Ribert, José M., assignor.)						
Rosenthal, James H., London, England. Superheater for steam-generators	597,887	Jan. 25	2465	575 576	82	528
Rosenzweig, Morris, Philadelphia, Pa. Puzzle-card and picture-exhibitor	598,537	Feb. 8	804	192	82	772
Roser, Jacob, Washington, Ky. Corn-planter	612,461	Oct. 18	1534	368	85	319
Roser, Nicolas, and J. Mazurier, St. Denis, France. Motor	597,888	Jan. 25	2466	576	82	528
Rosler, Isidor, assignor to Lehmann & Mann, Berlin, Germany. Accumulator-plate	604,418	May 24	2194	492	83	1096
Ross, Albert, Woodstock, Canada. Handle-bar for bicycles	615,308	Dec. 6	150	40	85	1442
Ross, Alexander, Rochester, N. Y. Audiphone	613,606	Nov. 1	693	160	85	748
Ross, Alfred, Wichita, Kans. Bicycle skirt-protector	597,298	Jan. 11	1440	338	82	296
Ross, Archia L., assignor of one-half to D. Hyams, New York, N. Y. Bag-closure	605,343	June 7	554	123	83	1458
Ross, Barney, assignor of one-third to F. Sweete, Painesville, Ohio. Pipe-wrench	599,673	Feb. 22	2835	659	82	1200
Ross, David, Vancouver, Canada. Door for closing steam-retorts	608,527	Aug. 2	634	143	84	781
Ross, Finlay W., Birtle, Canada. Automatic switch	606,392	June 28	2532	587	83	1890
Ross, Finlay W., Birtle, Canada. Rotary engine	610,498	Sept. 6	677	151 152	84	1569
Ross, Frederick, Craig, Colo. Saddle and girth connection	609,975	Aug. 30	3339	777	84	1364
Ross, George A., Providence, R. I. Bicycle-saddle	612,215	Oct. 11	1102	264	85	226
Ross, George P. (See May, Joseph B., assignor.)						
Ross, Harry S., assignor of one-half to W. Campbell, Chicago, Ill. Bell-ringing mechanism	611,794	Oct. 4	349	84	85	70
Ross, James H., Tacoma, Wash. Smelting-furnace	613,868	Nov. 8	1154	265	85	856
Ross, James K., Springfield, Ohio. Cartridge-shell	602,875	Apr. 26	2222	503	83	467
Ross, Jesse W., New Orleans, La. Plow	606,490	June 28	2703	623	83	1925
Ross-Lund, George, Bergen, Norway. Knockdown barrel, &c	611,441	Sept. 27	2395	549	84	1952
Ross, Myron A., Monterey, Mich. Machine for grinding horseshoe-calks	610,725	Sept. 13	1051	241	84	1662
Ross, Napoleon B., Gilboa, Ohio. Voting-machine	612,573	Oct. 18	1731	410 411	85	356
Ross, Simon, Cincinnati, Ohio. Shoe-upper turning and beading machine	606,301	June 28	2357	545	83	1857
Ross, Simon, Cincinnati, Ohio. Horse-collar-shaping machine	609,297	Aug. 16	2120	503	84	1096
Ross, Simon, Cincinnati, Ohio. Heel-finishing device	613,079	Oct. 25	2633	623	85	550
Ross, Simon, Cincinnati, Ohio. Rubber-cement tank	616,016	Dec. 13	1453	340	85	1709
Ross, Wilson G., and J. J. Reid, Benicia, Cal. Cribbage-board	614,028	Nov. 8	1400	321	85	906
Rossi, Auguste J., New York, assignor of one-half to J. MacNaughton, Albany, N. Y. Alloy of iron and titanium and producing it	609,466	Aug. 23	2420	568	84	1174
Rossi, Auguste J., New York, N. Y., assignor of one-half to J. MacNaughton. Manufacturing alloys of titanium	609,467	Aug. 23	2424		84	1174
Rossi, Nicholas, and F. Ghiggeri, Kansas City, Mo. Motor	616,589	Dec. 27	2553	591	85	1961
Rossiter, Thomas R., Knowle, and D. Noble, Bristol, England. Friction-clutch	611,512	Sept. 27	2518	582	84	1977
Rossmann, William W., Detroit, Minn. Stove or furnace	601,590	Mar. 29	3478	793	82	1965
Rost, John A., Axtell, Nebr. Link valve-gear	616,017	Dec. 13	1455	340	85	1709
Röstel, Carl, Berlin, Germany. Field-gun-carriage recoil-check	597,126	Jan. 11	1179	276 277	82	246
Rotary Counter Machine Company. (See Chase and Foster, assignors.)						
Rote, Charles V., assignor of one-half to R. Blickenderfer, Lancaster, Pa. Track-sander	605,558	June 14	900	210 211	83	1547
Roth, Eber H., Nescopeck, Pa. Door-securer	616,144	Dec. 20	1721	399	85	1777
Roth, Edward B., St. Louis, Mo. Means for making wedges for splitting stone, &c	603,513	May 3	505	110	83	698
Roth, Georges, Vienna, Austria-Hungary. Automatic firearm	616,260	Dec. 20	1946	452 453	85	1824
Roth, Georges, Vienna, Austria-Hungary. Recoil-operated firearm	616,261	Dec. 20	1950	453 454	85	1824
Roth, Harry P., Philadelphia, Pa. Device for adjusting bicycle-spokes	600,176	Mar. 8	1053	238	82	1440
Roth, Joseph C., Buffalo, N. Y. Keg or barrel	611,003	Sept. 20	1547	356	84	1774
Roth, L., et al. (See Thornton and Moody, assignors.)						
Roth, Reuben D., Mummasburg, Pa. Cow-milker	603,049	Apr. 26	2521	573	83	523
Rothar, George, Oliver's Mills, Pa. Harness snap-hook	616,145	Dec. 20	1723	399	85	1777
Rothe, Moritz, assignor to Kalker Werkzeugmaschinen-Fabrik, L. W. Breuer, Schumacher & Co., Kalk, Germany. Hydraulic riveting-machine	612,507	Oct. 18	1606	384	85	332
Rothe, Oswald, assignor of one-half to P. Rothe, Philadelphia, Pa. Oxidizing device for dyers' use	616,018	Dec. 13	1455	340	85	1709



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Rothe, Paul. (See Rothe, Oswald, assignor.)						
Rother, Fred C. (See Groth and Rother.)						
Rothgery, Frank A., Cleveland, Ohio. Feed-water coupling for fire-engines	606,739	July 5	182	41	84	37
Rothgiesser, Georg, Dusseldorf, assignor to Internationale Hydro-Press-Gas-Compagnie, Hamburg, Germany. Apparatus for compressing gas for incandescent gas-lamps	597,783	Jan. 25	2295	536	82	495
Rothholz, Gustave, Rochester, N. Y. Machine for sponging and shrinking cloth	611,795	Oct. 4	350	84, 85	85	70
Rothman, Erella, <i>et al.</i> (See Putman, Warren, assignor.)						
Rothrock, Albert, Jackson, Mich. Pressing and ironing board and stand	601,481	Mar. 29	3303	748	82	1928
Rothwell, Fred. (See Rothwell, Joseph and F.)						
Rothwell, Joseph, Glasgow, Scotland, and F. Rothwell, Bury, assignors to Dobson & Barlow, Limited, Bolton, England. Apparatus for grinding cards	597,365	Jan. 11	1566	365	82	322
Rott, Christian Z. F., Pittsburg, and T. C. Steimer, Charleroi, Pa.; said Steimer assignor to said Rott. Glass-mold	615,910	Dec. 13	1242	291	85	1667
Rottach, Johann, Vienna, Austria-Hungary. Transfer-surface for lithographic purposes and manufacture of same	614,029	Nov. 8	1400		85	906
Rotthoff, William, Duquesne, Pa. Cooling-plate	608,079	July 26	2871	614	84	612
Rottman, Harry H., Wilkes-Barré, Pa. Adjustable and extension table	615,048	Nov. 29	3307	760	85	1317
Rouillion, Louis, New York, N. Y. Coin-controlled vending apparatus	616,495	Dec. 27	2399	556 557	85	1934
Roulard, Francis, Paris, France. Non-refillable bottle	598,117	Feb. 1	77	18	82	617
Roulet, George U., and W. F. Young, Toledo, Ohio. Machine for coiling stud-spirals	615,749	Dec. 13	968	225	85	1615
Rountree, Charles N., Fort Valley, Ga. Row-gage for plows	599,478	Feb. 22	2466	580	82	1127
Roure, Edmond V., assignor of two-thirds to C. A. Lane and J. L. Kelly, Philadelphia, Pa. Utilizing liquefiable gases in operating engines, &c	607,662	July 19	2094	437	84	441
Rous, Henry, London, England. Composition of matter for fireproofing	613,941	Nov. 8	1263		85	878
Rouse, Hazard & Company. (See Benson, Andrew, assignor.)						
Rouse, Lovell M., Chicago, Ill. Printing-press	606,878	July 5	450	96	84	89
Rousseau, Elbert V. D., Bound Brook, N. J. Envelop	604,419	May 24	2195	492	83	1096
Roussel, Eugène E., Lorient, France. Life-preserver, &c	607,137	July 12	944	205	84	201
Roussy de Sales, Georges de, Lyons, France. Carbid-cartridge	603,971	May 10	1311	301	83	871
Roussy de Sales, Georges de, Lyons, France. Apparatus for generating acetylene gas	604,667	May 24	2645	606	83	1179
Rouston, William H., assignor of one-half to S. Nash, Detroit, Mich. Switch-actuating mechanism for railways	601,858	Apr. 5	467	95	83	87
Rout, Samuel H., Hustonville, Ky. Box for shipping-crates	612,141	Oct. 11	973	236	85	200
Routh, Albert W., Pittsburg, Pa. Street-car fender	601,046	Mar. 22	2535	577	82	1754
Roux, Charles, assignor of one-half to P. Bouhey, Montbard, France. Rotary engine	607,085	July 12	856	185	84	185
Rowan, James H., assignor of two-thirds to A. Boehm and L. Coon, New York, N. Y. Elevator	613,942	Nov. 8	1264	287 288	85	878
Rowand, Lewis G., Camden, N. J. Electric signaling mechanism. (Reissue)	11,678	July 12	1463	310	84	299
Rowand, Lewis G., Camden, N. J., assignor to Wetherill Concentrating Company, New York, N. Y. Magnetic ore-separator	596,719	Jan. 4	468	107	82	91
Rowand, Lewis G., Camden, N. J., assignor to Wetherill Concentrating Company, New York, N. Y. Magnetic ore-separator	596,720	Jan. 4	470	107	82	91
Rowand, Lewis G., Camden, N. J., assignor to Universal Fire Alarm Company, of New Jersey. Electric fire-alarm, circuit, and signal-box	598,160	Feb. 1	145	34	82	630
Rowbotham, Walter, Birmingham, England. Galvanic battery	602,362	Apr. 12	1335	297 298	83	209
Rowbotham, Walter, London, England. Primary battery	609,298	Aug. 16	2123	503 504	84	1097
Rowbottom, George, assignor to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Drop-hammer	609,836	Aug. 30	3088	720	84	1315
Rowe, Arthur C., New York, N. Y. Fire-extinguisher	596,622	Jan. 4	290	64	82	58
Rowe, Arthur C., New York, N. Y. Fire-extinguisher	596,623	Jan. 4	291	64	82	59
Rowe, Ellis L., assignor to Rensselaer Manufacturing Company, Troy, N. Y. Valve-indicator	606,584	June 28	2877	663	83	1959
Rowe, Frank, Dover, N. J. Sanding apparatus for railway-cars	609,299	Aug. 16	2125	504	84	1097
Rowe, G. A. (See Smith, Chris N., assignor.)						
Rowe, James E., assignor to E. Jenckes Manufacturing Company, Pawtucket, R. I. Knitting-machine	604,420	May 24	2196	492 493	83	1096
Rowe, James E., assignor to E. Jenckes Manufacturing Company, Pawtucket, R. I. Knitting-machine	604,570	May 24	2487	566 567	83	1148
Rowe, James E., assignor to E. Jenckes Manufacturing Company, Pawtucket, R. I. Thread-changer for knitting-machines	606,029	June 21	1836	423 424	83	1736
Rowe, Jasper L. (See Morris, John O., assignor.)						
Rowe, John, Sidney, Iowa. Brick-machine	612,275	Oct. 11	1212	290	85	245
Rowe, Myron, assignor of one-half to N. J. Walrath, Clarksville, Iowa. Riding-harrow	604,339	May 17	2054	460	83	1048
Rowe, Reuben, Dover, N. J. Faucet	599,256	Feb. 15	2011	477	82	1017
Rowe, Thomas, Woonsocket, R. I. Apparatus for detecting wrinkles in cloth	601,780	Apr. 5	307	60	83	58
Rowe, Willard C., assignor to Union Iron Works, Decatur, Ill. Feeder for corn-shellers	606,740	July 5	183	41	84	37
Rowell, Benton C., Boston, Mass., assignor to Rowell-Potter Safety Stop Company, Portland, Me. Signal-operating system for railways	599,456	Feb. 22	2419	569 570	82	1119
Rowell, Benton C., Boston, Mass., and F. M. Brinckerhoff, Chicago, Ill., assignors to Rowell-Potter Safety Stop Company, Portland, Me. Speed-controlling apparatus for railways	607,767	July 19	2256	477	84	473
Rowell, John S., Beaver Dam, Wis. Roof-covering	597,916	Jan. 25	2511	588	82	537
Rowell-Potter Safety Stop Company. (See Rowell, Benton C., assignor.)						
Rowell-Potter Safety Stop Company. (See Rowell and Brinckerhoff, assignors.)						
Rowell, Samuel C. (See Hoyt, Albert H., assignor.)						
Rowell, Samuel C., Boston, Mass. Puzzle	606,030	June 21	1840	424	83	1737
Rowland, Charles L., Brooklyn, N. Y. Welding apparatus	598,960	Feb. 15	1520	362 363	82	925
Rowland, Heavlon. (See Baldwin, Rollin A., assignor.)						
Rowland, William, Independence, Kans. Corn-cutter	604,793	May 31	2874	656 657	83	1242
Rowland, William D., Philadelphia, Pa. Die for forming shovels	612,216	Oct. 11	1104	265	85	226
Rowlands, William E., Seacombe, England. Making fertilizers	602,363	Apr. 12	1338		83	269
Rowlett, William T., Leicester, England. Needle for use in knitting-machines	597,488	Jan. 18	1795	416	82	383
Rowley, John T., Beaver Falls, Pa. Producing hollow ingots	603,206	Apr. 26	2789	636	83	575
Rowley, Salmon B. (See Riling, Joseph, assignor.)						
Rowley, Thomas, Manchester, England. Means for detecting punctures, leakage, or porousness in pneumatic tires	598,577	Feb. 8	874	209	82	737
Rowley, Tracy D., assignor of two-thirds to H. Z. Blenkhorn and J. L. Barsby, Cleveland, Ohio. Cheek-pad for firearms	616,424	Dec. 20	2247	524	85	1884
Rowling, Arthur L., Waukegan, Ill. Milk-strainer	605,829	June 14	1419	324	83	1642
Rowntree, Harold, Chicago, Ill. Closure-controlling apparatus	596,946	Jan. 4	855	201	82	166
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Electric elevator	599,015	Feb. 15	1620	384	82	944



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Roxburgh, Henry B., Shawlands, Scotland. Appliance for packing bottles, articles of glass, &c.	613,529	Nov. 1	565	128	85	723
Royal, Belford G., assignor of seven-ninths to R. H. Reeve, Camden, A. C. and E. S. Wood, Cinnaminson, N. J., and E. R. Johnson, Philadelphia, Pa. Grain cleaning and scalping machine	604,702	May 24	2717	621	83	1193
Royal, Charles B., Portsmouth, Va. Ball-bearing center-plate for cars	613,913	Nov. 8	1218	278	85	869
Royer, Leander K., Anderson, Ind. Fruit-jar	610,834	Sept. 13	1248	288	84	1701
Royer, William E., Painter Creek, Ohio. Fence-stay	601,682	Apr. 5	106	21	83	23
Royle & Sons, John. (See Cochran, William, assignor.)						
Royle, Vernon, Paterson, N. J. Beveling-machine	598,257	Feb. 1	327	75, 76	82	663
Royse, Clarence D., Greencastle, and W. A. Royse, assignors to themselves and M. M. Royse, Indianapolis, Ind. Telegraphy	613,080	Oct. 25	2634	623	85	550
Royse, Mollie M. (See Royse, Clarence D. and W. A., assignors.)						
Royse, Walter A. (See Royse, Clarence D. and W. A.)						
Royston, Ernest R., Liverpool, England. Velocipede	606,302	June 28	2358	545 546	83	1858
Rubenstein, Barnett, Chicago, Ill. Miner's pick	608,716	Aug. 9	983	226	84	868
Rubin, Hyman L., and H. Simon, Charleston, S. C. Combination vest and bosom	616,360	Dec. 20	2133	496	85	1862
Ruby, Charles W., Brooklyn, N. Y. Hose rack or support	603,207	Apr. 26	2790	637	83	575
Ruckdeschel, Max, and A. Möckel, Adorf, Germany. Collapsible chair	611,942	Oct. 4	604	147	85	118
Rudasill, Eli A., Shelby, N. C. Water-motor	601,906	Apr. 5	547	113	83	104
Rude, John A., Chicago, Ill. Trap	607,768	July 19	2259	477	84	474
Rudensky, Israel, New York, N. Y. Device for transmitting power	609,050	Aug. 16	1651	394	84	1008
Rudolph, Albert H. (See Rudolph, Henry G. and A. H.)						
Rudolph, Charles, and G. Levavasseur, Paris, France. Flexible metallic pipe	605,587	June 14	962	223	83	1558
Rudolph, Christian, assignor to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Blue azo dye	601,859	Apr. 5	471		83	88
Rudolph, Flavel A. (See Parish and Rudolph.)						
Rudolph, Henry G. and A. H., Cleveland, Ohio. Coin-controlled liquid-vending machine.	613,530	Nov. 1	565	128 129	85	723
Rudolph, William F., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Antivibration-burner for incandescent gas-lights	615,309	Dec. 6	151	40	85	1442
Rudy, William W., Bound Brook, N. J., assignor of one-third to O. W. Blauvelt, New York, N. Y. Car-coupling	607,769	July 19	2261	478	84	474
Rue, Frank B. (See Ely, Danser, and Rue.)						
Rue, Harvey G., Hightstown, N. J. Device for cutting or dividing pills or pellets	599,796	Mar. 1	207	51	82	1254
Rue, Ross, Alliance, Ohio. Glove	613,847	Nov. 8	1111	253	85	848
Rue, Ross, and J. C. Devine, Alliance, Ohio. Scaffold	597,205	Jan. 11	1303	304	82	269
Ruef, William H., assignor to Adriance, Platt & Company, Poughkeepsie, N. Y. Drive-chain tightener	601,417	Mar. 29	3202	722 723	82	1908
Ruete, William T., assignor to Interior Conduit and Insulation Company, New York, N. Y. Bending armored conduit-tubes	610,726	Sept. 13	1052	241	84	1662
Ruettgers, Ernst, New York, N. Y. Pocket-knife	616,689	Dec. 27	2767	644	85	2003
Rufener, Alfred. (See Good and Rufener.)						
Ruff, Joseph, Chicago, Ill. Car-brake	606,585	June 28	2879	663	83	1960
Ruff, William J., Quincy, Ill. Apparatus for pasteurizing beer	607,770	July 19	2262	478	84	474
Ruffhead, Fred C. (See Beck and Ruffhead.)						
Ruffin, Robert, Como Depot, Miss. Drafting instrument	614,985	Nov. 29	3190	734	85	1296
Rufz de Lavison, Henri E. de, Neuilly-sur-Seine, France. Voltaic battery	596,791	Jan. 4	593	137	82	114
Ruge, Julius A. (See Eulenstein, Louis, assignor.)						
Rugg, de Leonard, Catskill, N. Y. Combination sad-iron and heater	607,957	July 26	2647	562	84	565
Ruggles, William B., Bayonne, N. J. Drying apparatus	603,208	Apr. 26	2791	637	83	575
Ruhe, Walter A., and H. S. Burbank, Philadelphia, Pa. Acetylene-gas apparatus	600,177	Mar. 8	1054	238	82	1440
Ruhland, John F., Wellston, Mo. Railway-switch	603,707	May 10	843	187	83	781
Rule, Christopher E. (See Meyer, Bodine, and Rule.)						
Ruman, Aurél, New York, N. Y. Window-sash	598,644	Feb. 8	987	238 239	82	807
Rummons, Nestor, et al. (See Pugsley, William E., assignor.)						
Rumney, Isaac E. (See Glass, Perley R., assignor.)						
Rumpel, Julius, Weston, Mo. Automatic alarm-cell	602,960	Apr. 26	2383	543	83	498
Rumpf, Heinrich C., Dahlhausen, Germany. Apparatus for manufacturing railway-spikes	604,591	May 24	2519	573	83	1154
Rumpf, Martin H., Brussels, Belgium. Internal-combustion engine	615,049	Nov. 29	3312	761	85	1318
Rumph, Eugene M., Marshallville, Ga. Planter	602,364	Apr. 12	1338	298	83	269
Rumsey, Emmet D. (See Adriance, Cornelius B., assignor.)						
Rundwebstuhlfabrik, Herold & Richards. (See Herold, Josef and C., assignors.)						
Runeberg, Robert, St. Petersburg, Russia. Means for mounting rudders	616,561	Dec. 27	2511	581	85	1955
Runge, Charles, Merrill, Wis. Stump-puller	599,518	Feb. 22	2533	595	82	1141
Runge, Eduard, Berlin, Germany. Cash-register	599,734	Mar. 1	94	22, 23	82	1234
Runkel, Friedrich. (See Kahn and Runkel.)						
Runkel, John P., Milwaukee, Wis. Car-coupling	597,861	Jan. 25	2429	566	82	522
Runkle, George C., Port Royal, Pa. Shipping-crate	616,146	Dec. 20	1724	399 400	85	1777
Runser, John, assignor to W. S. and L. G. Beale, Van Wert, Ohio. Sausage or meat cutting machine	600,128	Mar. 1	971	215 216	82	1408
Runser, Phillip J., Redfield, S. D. Speed-changing device and indicator	598,817	Feb. 8	1266	307	82	860
Runyan, William T., Canton, Ohio. Shears	596,546	Jan. 4	149	34	82	31
Runyon, Charles. (See Coleman, Runyon, and Zahn.)						
Runyon, Walter G., Elizabeth, N. J. Support for verandas, porches, &c	608,797	Aug. 9	1123	260	84	893
Rupert, Clarence J. (See Rupert, John F. and C. J.)						
Rupert, John F. and C. J., Conneautville, Pa. Nailless horseshoe	600,744	Mar. 15	2040	466	82	1648
Rupp, Martin L., Fresno, Cal. Tray-turner	613,020	Oct. 25	2531	602 603	85	530
Rupp, Peter, Whitehouse, Ohio. Belt-pulley	614,310	Nov. 15	1915	442	85	1024
Ruppel, Henry, Cleveland, Ohio. Hydrocarbon-burner	616,425	Dec. 20	2249	524	85	1884
Ruppert, Friedrich. (See Diehl, Ruppert, and Löser.)						
Rusch, Henry A., deceased, Newark, N. J., (S. E. Rusch, administratrix,) assignor of one-half to N. Schroder, Brooklyn, N. Y. Bicycle-saddle	606,031	June 21	1841	424	83	1737
Rusch, Sarah E., administratrix. (See Rusch, Henry A.)						
Ruscher, Alfred, Bruck-Uffaln, Austria-Hungary. Car-coupling	606,245	June 28	2264	523	83	1888
Rush, Charles D. (See Thompson and Rush.)						
Rushing, Evan D. (See Norton and Rushing.)						
Rushton, Edward, et al. (See Bennum, George W., assignor.)						
Rushworth, William M., and T. Higginbottom, Lowell, Mass. Spindle-bearing	602,110	Apr. 12	901	195	83	183
Rusk, James M. (See Drake, Thomas C., assignor.)						
Russ, Edwin, London, England. Device for supporting bicycles	608,798	Aug. 9	1124	261	84	893
Russ, Hiram P., assignor of one-half to F. C. Taber, Addison, N. Y. Rocker attachment	601,985	Apr. 5	694	148	83	131



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Russell, Albert A., Grass Valley, Cal. Sink strainer.....	597,482	Jan. 18	1787	413	82	381
Russell, Albert N., Cherryvale, Kans. Wagon.....	614,986	Nov. 29	3192	734	85	1297
Russell, Allen A. and H. A., Indianapolis, Ind. Pneumatic stacker.....	601,356	Mar. 29	3097	699 700	82	1889
Russell, Benjamin F., Fandon, Nebr. Draft-equalizer.....	603,433	May 3	330	74	83	663
Russell, Cal, Sylvan, Tex. Cultivator.....	596,912	Jan. 4	790	186	82	154
Russell, Charles T. (See Perine, Aaron B., assignor.)						
Russell & Co. (See Heggem, Charles O., assignor.)						
Russell & Erwin Manufacturing Company. (See Burgess, Charles M., assignor.)						
Russell & Erwin Manufacturing Company. (See Leppert, Henry, assignor.)						
Russell & Erwin Manufacturing Company. (See Russell, Henry E., assignor.)						
Russell & Erwin Manufacturing Company. (See Urban, Anton, assignor.)						
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)						
Russell, Frank J., assignor of one-half to H. See, New York, N. Y. Controlling device for electric motors.....	613,869	Nov. 8	1155	265	85	857
Russell, Frederic T., assignor to Blount Manufacturing Company, Gardner, Mass. Door-check and closer.....	598,010	Jan. 25	2682	625 626	82	570
Russell, George E. (See Russell, William H. and G. E.)						
Russell, George W., New York, N. Y. Shoe-polisher.....	612,438	Oct. 18	1496	360	85	312
Russell, Harley A. (See Russell, Allen A. and H. A.)						
Russell, Henry E., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Latch.....	606,246	June 28	2266	523	83	1839
Russell, Isaac H., Fall River, Mass. Roving-guide for spinning-machines.....	600,236	Mar. 8	1147	261 262	82	1459
Russell, James, <i>et al.</i> (See Russell, William, assignor.)						
Russell, John H., assignor of one-half to J. H. Giles, Amsterdam, N. Y. Paper-feeding machine.....	600,844	Mar. 15	2197	502 503	82	1677
Russell, John H., assignor of one-half to J. H. Giles, Amsterdam, N. Y. Paper-box-making machine.....	604,546	May 24	2441	554 555	83	1138
Russell, John H., assignor of one-half to J. H. Giles, Amsterdam, N. Y. Paper-feeding machine.....	611,282	Sept 27	2086	480 481	84	1897
Russell, Markes D. F., and W. T. Fentress, Ellis Mills, Tenn. Farm-fence.....	616,734	Dec. 27	2849	660	85	2020
Russell, Philip G., Washington, D. C., assignor to Diamond Match Company, Chicago, Ill. Match-making machine.....	598,645	Feb. 8	988	239 240	82	807
Russell, Philip G., Washington, D. C., assignor to Diamond Match Company, Chicago, Ill. Machine for making matches.....	612,060	Oct. 11	834	204 205	85	173
Russell, Theo. (See Lowe, Milton H., assignor.)						
Russell, Thomas, Grand Rapids, Minn. Boring-tool.....	616,496	Dec. 27	2404	557	85	1935
Russell, Thomas P., Marquand, Mo. Bolt.....	608,717	Aug. 9	984	226	84	868
Russell, W. T., <i>et al.</i> (See Stephenson, John R., assignor.)						
Russell, William, assignor of one-half to G. S. Bingham, H. Griffin, R. Campbell, J. Thompson, Dow Brothers, J. Stenabaugh, J. Calder, Hamilton, W. Millican, Galt, J. Russell, Carl Luke, J. Gilfillin, Lucan, and A. Henderson, Toronto, Canada. Machine for shocking grain.....	611,283	Sept 27	2089	481 482	84	1897
Russell, William A., New York, N. Y. Wall, floor or ceiling plate.....	611,418	Sept. 27	2349	542	84	1945
Russell, William A., New York, N. Y. Wall, floor, or ceiling plate.....	611,419	Sept. 27	2351	542	84	1945
Russell, William A., New York, N. Y. Air-valve attachment for radiators, &c.....	614,276	Nov. 15	1865	431	85	1014
Russell, William H., Chicago, Ill. Chainless bicycle.....	597,621	Jan. 18	2001	467	82	425
Russell, William H., Chicago, Ill. Trolley.....	607,194	July 12	1048	226	84	219
Russell, William H., Newcastle, Canada. Electric car trolley.....	599,868	Mar. 1	371	83	82	1282
Russell, William H. and G. E., Hasbrouck Heights, N. J. Apparatus for manufacturing carbureted hydrogen.....	602,408	Apr. 12	1415	320	83	285
Russell, William M., New York, N. Y. Locomotive.....	604,481	May 24	2325	527	83	1118
Russell, William M., assignor to M. C. Baker, Chicago, Ill. Binder for loose sheets.....	605,916	June 21	1617	372	83	1693
Russell, William M., assignor of one-half to T. E. de Sotolongo, New York, N. Y. Locomotive.....	609,837	Aug. 30	3089	721	84	1316
Russey, Charles H. (See Hefel, Toney C., assignor.)						
Rutan, Michael Q., East Orange, N. J. Brake-shoe-operating mechanism.....	609,559	Aug. 23	2586	605	84	1204
Rutgers, John J., Holland, and B. F. Brinkman, Grand Rapids, Mich. Pneumatic shoe form or last.....	601,306	Mar. 29	3024	680	82	1875
Ruther, Gustav E., Bridgeport, Conn. Wire-twisting tool.....	608,225	Aug. 2	101	26	84	675
Rutschman, Francis S., Philadelphia, Pa. Machine for plotting soap.....	603,411	May 3	2289	64	83	655
Ruttenau, Maximilian M., New York, N. Y. Preparing cattle-tail hair.....	612,994	Oct. 25	2492		85	523
Rutter, George. (See Gillet and Rutter.)						
Rutter, Horace L., Brooklyn, N. Y. Dress-shield extender.....	599,533	Feb. 22	2558	600	82	1145
Rutter, Mary E. H. (See Small, John F., assignor.)						
Ruud, Edwin, East Pittsburg, Pa. Automatic water-heater.....	610,281	Sept. 6	271	59	84	1494
Ruwell, William F., <i>et al.</i> (See Bouton, Samuel, assignor.)						
Ryan, John M., St. Louis, Mo. Combined ash sifter and receiver.....	611,150	Sept. 20	1821	419	84	1827
Ryan, Andrew, Grand Rapids, Minn. Snap-hook.....	603,288	May 3	75	19	83	616
Ryan, Austin, Preston, Canada. Tire.....	605,917	June 21	1618	372	83	1698
Ryan, James B., New York, N. Y. Bed-bottom.....	599,735	Mar. 1	100	23	82	1235
Ryan, James B., New York, N. Y. Bed-bottom.....	605,680	June 14	1143	265	83	1590
Ryan, James B., assignor to New York Woven Wire Mattress Company, New York, N. Y. Bed-bottom.....	599,736	Mar. 1	101	24	82	1235
Ryan, James B., assignor to New York Woven Wire Mattress Company, New York, N. Y. Bed-bottom.....	599,737	Mar. 1	102	24	82	1235
Ryan, James B., assignor to New York Woven Wire Mattress Company, New York, N. Y. Bed-bottom.....	599,738	Mar. 1	103	24	82	1235
Ryan, James B., assignor to New York Woven Wire Mattress Company, New York, N. Y. Bed-bottom.....	599,739	Mar. 1	104	25	82	1236
Ryan, James B., assignor to New York Woven Wire Mattress Company, New York, N. Y. Bed-bottom.....	599,740	Mar. 1	105	25	82	1236
Ryan, James B., assignor to New York Woven Wire Mattress Company, New York, N. Y. Bed-bottom.....	614,987	Nov. 29	3194	735	85	1297
Ryan, John J., San José, Cal. Cigar-bunching machine.....	600,379	Mar. 8	1377	315	82	1502
Ryan, Michael B., Bridgeport, assignor of one-half to P. O. Dwyer, Danbury, Conn. Folding bicycle.....	599,016	Feb. 15	1625	284 385	82	945
Ryan, Michael C., Oswego, N. Y., assignor to Oswego Crate Company, of New York. Crate corner.....	602,409	Apr. 12	1417	320	83	285
Ryan, Thomas W., Concord, Mass. Automatic shut-off ball-cock.....	603,030	Apr. 26	2495	565	83	518
Ryan, Thomas W., Concord, assignor of one-half to J. H. Walsh, Boston, Mass. Self-sealing bottle.....	603,795	May 10	997	223	83	811
Rybold, Louis, New York, N. Y. Broom-holder.....	602,243	Apr. 12	1133	249	83	228
Ryder, Andrew V., Scio, Ohio. Harrow.....	607,278	July 12	1219	260	84	253
Ryder, Benjamin P., New York, N. Y. Bicycle-frame.....	603,289	May 3	76	20	83	616



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Ryder, Charles L., <i>et al.</i> (See Ryder, Charles M., assignor.)						
Ryder, Charles M., assignor of one-half to C. L. and W. E. Ryder, South Chester, Pa. Wrench	616,019	Dec. 13	1456	341	85	1710
Ryder, Charles S. (See Ryder, Malcolm, assignor.)						
Ryder, Joshua H., assignor of one-half to H. C. Fish, Brockton, Mass. Buffing or sand-papering machine	600,933	Mar. 22	2351	534	82	1719
Ryder, Joshua H., and I. H. Fish, Brockton, Mass. Last	612,870	Oct. 25	2297	548	85	483
Ryder, Malcolm, assignor of one-half to C. S. Ryder, New York, N. Y. Dumping-spout	610,690	Sept. 13	985	229	84	1648
Ryder, Malcolm, assignor to New York Large Tree Company, New York, N. Y. Apparatus for extracting and transporting trees	610,691	Sept. 13	987	229 230	84	1648
Ryder, Thomas F. (See Fountain, Vincent, assignor.)						
Ryder, Walter E., <i>et al.</i> (See Ryder, Charles M., assignor.)						
Ryer, John C. (See Schmidt, Julius H., assignor.)						
Ryer, John C., <i>et al.</i> (See Schmidt, Julius H., assignor.)						
Ryland, Thomas J., London, assignor of one-half to E. Bird, Robertsbridge, England. Dovetailing-machine	608,994	Aug. 9	1520	359 360 361	84	968
Rylander, Parrish H., Lockhart, Tex. Device for locking shafts in hubs or couplings	597,329	Jan. 11	1500	350	82	309
Rylander, William P., Temple, Tex. Clothing-boiler	598,011	Jan. 25	2684	626	82	570
Ryley, Alfred G., Memphis, Tenn. Heating-stove	603,742	May 10	899	200	83	791
Ryley, Alfred G., assignor to H. Wetter Manufacturing Company, Memphis, Tenn. Detachable tub-seat	615,911	Dec. 13	1243	291	85	1667
Ryon, Eppa H., assignor of one-half to A. M. Goodale, Waltham, Mass. Spindle-bearing	597,690	Jan. 18	2126	497	82	446
Ryon, Eppa H., assignor of one-half to A. M. Goodale, Waltham, Mass. Spinning-machine spindle	597,691	Jan. 18	2128	497	82	446
Ryon, Eppa H., assignor of one-half to A. M. Goodale, Waltham, Mass. Spindle-support	602,171	Apr. 12	1018	223	83	205
Ryon, Eppa H., assignor of one-half to A. M. Goodale, Waltham, Mass. Spindle and support	616,020	Dec. 13	1458	341	85	1710
S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.)						
S. A. Woods Machine Company. (See Tillison and Blood, assignors.)						
S. Howes Company. (See Rider, Charles S., assignor.)						
S. O. & C. Company. (See Pickles, James, assignor.)						
S. S. White Dental Manufacturing Company. (See Avery, William N., assignor.)						
S. S. White Dental Manufacturing Company. (See Browne, Arthur W., assignor.)						
S. S. White Dental Manufacturing Company. (See Browne and Kennedy, assignors.)						
S. S. White Dental Manufacturing Company. (See Evans, Warren R., assignor.)						
S. S. White Dental Manufacturing Company. (See Gilbert, Edmund D., assignor.)						
S. S. White Dental Manufacturing Company. (See Gilbert, John W., assignor.)						
S. S. White Dental Manufacturing Company. (See Hollingsworth, Merrill W., assignor.)						
S. S. White Dental Manufacturing Company. (See How, Woodbury S., assignor.)						
S. S. White Dental Manufacturing Company. (See Johnston and Browne, assignors.)						
S. S. White Dental Manufacturing Company. (See Richardson and McMakin, assignors.)						
Saati, Nowman M., Providence, R. I. Dividing-machine	613,425	Nov. 1	394	90	85	691
Saathoff, Harm A., Menlo, Kans. Metallic railway-t	609,123	Aug. 16	1796	428	84	1032
Sabin, Chauncey R., assignor of two-thirds to W. B. and E. S. Knight, St. Louis, Mo. Combined burglar-alarm and lock	605,344	June 7	556	123	83	1458
Sachs, Stanislaw, Berlin, and H. Jaffe, Parchim, Germany. Exercising apparatus	605,747	June 14	1246	288	83	1610
Sachse, Frank. (See Johnston, John S., assignor.)						
Sachse, Paul C., assignor to T. W. Booth, St. Louis, Mo. Rubber tire	608,718	Aug. 9	984	227	84	868
Sachsenröder, Gustav H., Barmen, Germany. Drawing-roller	616,735	Dec. 27	2850	660 661	85	2021
Sackett, Howard T., Fond du Lac, Wis. Bicycle-support	602,270	Apr. 12	1180	259	83	237
Sackett, Howard T., Fond du Lac, Wis. Bicycle-support attachment	614,503	Nov. 22	2290	525	85	1108
Sackett, Hugh R., Smithfield, and J. H. Huhn, Uniontown, Pa. Steam-engine	615,912	Dec. 13	1245	291 292	85	1668
Sacksteder, Joseph F. (See Schwanengel and Sacksteder.)						
Sadler & Co., F. H. (See Sadler, Louis E., assignor.)						
Sadler, Louis E., assignor to F. H. Sadler & Co., Attleborough, Mass. Ornamental ring	611,004	Sept. 20	1548	356	84	1774
Sadtler, John P. B. (See Heller, Adam, assignor.)						
Sadtler, Samuel P., assignor to H. K. Hess, Philadelphia, Pa. Making chromates	599,197	Feb. 15	1914		82	998
Saefke, Henry, <i>et al.</i> (See Broichgans, Stephen, assignor.)						
Saefke, William, <i>et al.</i> (See Broichgans, Stephen, assignor.)						
Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)						
Safety Car Heating and Lighting Company. (See Lungren, Charles M., assignor.)						
Safety Car Heating and Lighting Company. (See Pintsch, Richard, assignor.)						
Safety Car Heating and Lighting Company. (See Stevens, Merton P., assignor.)						
Safety Third Rail Electric Company. (See Murphy, John M., assignor.)						
Saffold, Ray P., Selma, Ala. Sulky	599,257	Feb. 15	2012	477	82	1017
Safford, Edmund E., Boston, Mass. Invalid-rest	614,766	Nov. 22	2755	629	85	1195
Safford, Joseph A., Malden, Mass. Cushioned heel for boots or shoes	607,086	July 12	858	185	84	185
Safford, Roger W. (See Engstrand, Sundeen, Pope, and Safford.)						
Sage, Henry J., Rochester, Pa. Electric-arc lamp	599,635	Feb. 22	2772	644	82	1188
Sagebiel, Friedrich, Linse, Germany. Means for fastening panes of glass in window-sashes	615,750	Dec. 13	969	225	85	1615
Sagendorph, Longley L., Philadelphia, Pa. Metallic ceiling or wall plate	611,797	Oct. 4	352	85	85	71
Sagendorph, Longley L., Philadelphia, Pa., assignor of one-half to C. N. Harder, Philmont, N. Y. Means for securing furring-strips to metallic beams	611,796	Oct. 4	351	85	85	71
Sagendorph, Longley L., Philadelphia, Pa., assignor of one-half to C. N. Harder, Philmont, N. Y. Metallic ceiling or wall plate	611,798	Oct. 4	354	85	85	71
Sager, James H., Rochester, N. Y. Angle-gearing	602,629	Apr. 19	1792	409	83	369
Sager, Rockwood. (See Bruno, Charles O., assignor.)						
Sager, William J., Warren, Pa. Sap-spout	610,922	Sept. 20	1396	320	84	1746
Sago, George A., Brockett, Ark. Combined cotton planter, scraper, and chopper	596,913	Jan. 4	791	186 187	82	155
Sahlender, Godfrey A., Belleville, Ill. Spinning-top	611,761	Oct. 4	292	69	85	60
Sahlstrom, August, Minneapolis, Minn. Cap for closing stovepipe-flues	598,161	Feb. 1	149	35	82	631
Saile, Mathew, assignor of one-half to S. D. Wright, Philadelphia, Pa. Supporting mechanism for loom-shuttles	607,087	July 12	859	185 186 663 664	84	185
Saladin, Jules A., Nancy, France. Malt-stirrer	606,586	June 28	2880	665 666 667 668	83	1960
Saladin Pneumatic Malting Construction Company. (See Prinz, William H., assignor.)						
Salberg, Philip R., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Electrically-propelled vehicle	599,947	Mar. 1	508	115	82	1309



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			Spec.	Dr'g.	Vol.	Page.
Salenius, Erik G. N., Albano, Sweden. Apparatus for continuously sterilizing milk, &c.	615,050	Nov. 29	3314	761	85	1318
Salewsky, Clarence E. (See Hahn and Salewsky.)						
Salignac, Eugene de, Keyport, N. J. Combination salt-cellar and pepper-box	609,468	Aug. 23	2428	568	84	1174
Saling, Thomas W., Marshall, Tex. Draft-beam for cars	604,421	May 24	2200	493	83	1097
Salisbury, Edgar E. (See Taylor, Salisbury, and Dean.)						
Salisbury, Edgar E., and A. E. Dean, assignors to themselves and F. B. Taylor, Tacoma, Wash. Call-box system	605,345	June 7	557	124	83	1459
Salisbury, Frank S. (See Kennedy and Salisbury.)						
Salisbury, Levi E., assignor to J. Millar, Providence, R. I. Needle for knitting-machines	601,281	Mar. 29	2971	671	82	1865
Salisbury, Levi E., assignor to J. Millar, Providence, R. I. Straight-knitting machine	601,307	Mar. 29	3025	681	82	1875
Sallade, James W., Pottsville, Pa. Detergent composition and making same	607,663	July 19	2096		84	442
Salmon, Samuel, Drifton, Pa. Oil-retaining box	607,279	July 12	1220	261	84	252
Salom, Pedro G. (See Morris and Salom.)						
Salomon, Samuel, Labischin, Germany. Bung	598,665	Feb. 8	1028	248	82	815
Salsbury, Thompson G., Paris, France. Driving-gear for chainless bicycles	612,995	Oct. 25	2493	593 594	85	523
Salt, Ernest J., <i>et al.</i> (See Barr, John U., Jr., assignor.)						
Salt, William B., <i>et al.</i> (See Barr, John U., Jr., assignor.)						
Salt, William E., <i>et al.</i> (See Barr, John U., Jr., assignor.)						
Sammis, George S., Bloomfield, N. J. Strap-fastener	605,300	June 7	467	105	83	1440
Sample, Charles, Valley Grove, W. Va. Vehicle-brake	604,668	May 24	2648	607	83	1184
Sample, Charles, Valley Grove, W. Va. Feed-box for wagon-poles	607,280	July 12	1221	261	84	252
Sample, James B., Columbus, Ga. Capstan	605,346	June 7	561	124	83	1459
Sampson, William, Mason City, Iowa. Seat for locomotive-engines	613,479	Nov. 1	496	111	85	710
Sampson, William L., Ocean Grove, N. J. Drawbridge	598,012	Jan. 25	2685	626 627	82	570
Sams, Walter, assignor to W. E. Sams and F. B. Wadell, Clinton, Mo. Gas-generator	598,393	Feb. 1	548	134	82	706
Sams, William E., <i>et al.</i> (See Sams, Walter, assignor.)						
Samson Cordage Works. (See Tolman and Martin, assignors.)						
Samuel, Edward, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Making composite articles of manganese steel and cast metal	599,636	Feb. 22	2774	644	82	1189
Samuel, Leopold S., Newark, N. J. Soap cake	606,879	July 5	451	97	84	89
Samuels, Barney, St. Joseph, Mo. Electric railway signaling system	601,482	Mar. 29	3304	748	82	1928
Samuelson, Andrew, Chicago, Ill. Combination step-ladder and ironing-board	603,820	May 10	1046	233	83	821
Sanborn, Henry W. (See Dorr, Edgar S., assignor.)						
Sanborn, Henry W., assignor of one-half to E. S. Dorr, Boston, Mass. Manhole-frame	599,457	Feb. 22	2422	570	82	1119
Sanborn, Hermann L., Pleasantville, assignor, by mesne assignments, to J. A. Skilton, trustee, Brooklyn, N. Y. Paper-cutting machine	600,338	Mar. 8	1318	301	82	1491
Sanborn, Hermann L., Pleasantville, N. Y., assignor, by mesne assignments, to Sanitas Dried Fruit Company of New York, of New York. Raisin stemming and preparing machine	600,554	Mar. 15	1718	393	82	1586
Sanborn, Karen C., Brooklyn, N. Y. Ventilating attachment for windows	606,088	June 21	1955	449	83	1759
Sanborn, Nathaniel H., Jersey City, N. J. Puzzle	614,988	Nov. 29	3196	735	85	1297
Sandage, Joshua, South Bend, Ind. Wagon-axle skein	597,692	Jan. 18	2129	497	82	447
Sandberg, Charles, <i>et al.</i> (See Ecker, Herman, assignor.)						
Sandbo, Anton I., Waukon, Iowa. Attachment for coffee-pots	610,853	Sept. 13	1276	295	84	1707
Sande, George E., Neenah, Wis. Gudgeon	614,989	Nov. 29	3197	735	85	1298
Sander, Gustav, and A. E. Dieter, Dayton, Ohio. Screen	612,871	Oct. 25	2298	548	85	483
Sanderlin, Thomas M., Norfolk, assignor of one-third to C. H. Brown, Portsmouth, Va. Automatic bottle-stopper	599,258	Feb. 15	2013	477	82	1018
Sanders, C. W., <i>et al.</i> (See Woodward, Walter J., assignor.)						
Sanders, C. W., <i>et al.</i> (See Woodward and Brett, assignors.)						
Sanders, Charles H. (See Miley, Frank S., assignor.)						
Sanders, Christian F., and J. T. Swearingen, Hedrick, Iowa. Thill-coupling	613,426	Nov. 1	395	90	85	691
Sanders, George A. (See Scales, Yewell D., assignor.)						
Sanders, H. S. (See Knee and Robinson, assignors.)						
Sanders, Louis, New York, N. Y. Cartridge-belt	616,361	Dec. 20	2134	497	85	1862
Sanderson, James G., Scranton, Pa. Gas-producer	609,705	Aug. 23	2568	670	84	1258
Sanderson, James G., Scranton, Pa. Gas-producer	600,954	Mar. 22	2381	542	82	1725
Sanderson, William H., assignor to National Computing Scale Company, Cleveland, Ohio. Platform-scale	601,881	Apr. 5	503	103	83	94
Sanderson, Thomas C., London, England. Manufacture of white lead	613,318	Nov. 1	171		85	650
Sandford, Charles, Paterson, N. J. Leg fly-net	612,633	Oct. 18	1854	439	85	379
Sandford, Lawson, <i>et al.</i> (See Hachenberg, Louis, assignor.)						
Sandiford, John, Sr., Wyndmoor, Pa. Brake	605,801	June 14	1368	313	83	1632
Sandiford, William, assignor of one-half to P. M. Kimmey, Chicago, Ill. Lathe-dog	602,606	Apr. 19	1751	399	83	361
Sandow, Eugen, London, England. Electric muscular-exerciser	602,774	Apr. 19	2044	462	83	417
Sandow, Eugen, London, England. Exercising-machine	610,416	Sept. 6	524	114	84	1539
Sands, Edward, Chicago, Ill. Manufacture of mailing-tubes, cans, &c.	600,745	Mar. 15	2041	466	82	1648
Sands, Edward, Chicago, Ill. Mailing-tube, can, or like article	600,746	Mar. 15	2042	466	82	1648
Sands, Ernest P., New York, N. Y. Check and back-pressure valve	615,751	Dec. 13	970	225	85	1616
Sands, Frederick P., Newport, R. I. Device for attaching sails to spars	601,282	Mar. 29	2972	672	82	1865
Sands, Lewis. (See Bowen and Federer, assignors.)						
Sands, William R., Newark, N. J. Hand-strap for street-cars	607,592	July 19	1964	407	84	418
Sanford, Andrew J., Newark, and W. A. Ingler, Zanesville, Ohio. Glass-finishing machine	613,319	Nov. 1	172	38, 39	85	650
Sanford, Charles E. (See Deegan, Daniel J., assignor.)						
Sanford, Edwin A., Castile, N. Y. Potato sprouter	612,276	Oct. 11	1214	290	85	245
Sanford, James A., Jackson, Mich. Sewing-machine	615,752	Dec. 13	971	226	85	1616
Sanford, John O., New York, N. Y. Safety coat-hanger	610,372	Sept. 6	448	98	84	1524
Sanford, Joseph, Elysian, Minn. Tire-furnace	609,055	Aug. 16	1660	395	84	1009
Sanford, Leverett A., assignor of one-half to Dunbar Brothers, Bristol, Conn. Bicycle-bell	599,988	Mar. 1	569	131	82	1321
Sanford, Pardon B., Fall River, Mass. Yarn guide, tension, and clearer	605,918	June 21	1620	372	83	1699
Sanford, Percy G., London, England. Preserving albuminous matters	607,281	July 12	1222		84	252
Sanger, Ella M. (See Toepfer, William G., assignor.)						
Sanger, Otto C., Blue Earth City, Minn. End-gate	615,366	Dec. 6	272	63	85	1466
Sangestad, S. M. (See Locke and Anderson, assignors.)						
Sangster, Charles, Bournbrook, England, assignor to F. A. Wilmot, Bridgeport, Conn. Lock for cycles	608,080	July 26	2872	614	84	612
Sanhuber, George W., Milwaukee, Wis. Smoke-consuming furnace	609,051	Aug. 16	1652	394	84	1008
Sanitas Dried Fruit Company of New York. (See Sanborn, Hermann L., assignor.)						
Sansbury, Albert T., New York, N. Y. Seal-lock	611,846	Oct. 4	446	106	85	90
Sanson, Robert, Jr., Edinburgh, Scotland. Cardboard cutting and indenting device	613,397	Nov. 1	336	77	85	680
Santa Cruz, Octave de, Versailles, France. Preserving food	609,590	Aug. 23	2646	619	84	1215



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Santariserio, Giuseppe. (See Nucci, Luigi de, assignor.)						
Saphir, Johanna. (See Cohn, Sam, assignor.)						
Sapio, Clementine de, Paris, France. Corset	609,591	Aug. 23	2647	619	84	1215
Sapp, Isaac H., assignor of one-half to W. T. Stuart, Papeete, Island of Tahiti. Bicycle-support	611,709	Oct. 4	205	49	85	43
Sardi, Vincenzo, Turin, Italy. Acetylene-gas generator	610,086	Aug. 30	3523	816	84	1401
Sargeant, Edward F., Stroud, England. Manufacture of leather belts	599,869	Mar. 1	372	83, 84	82	1283
Sargeant, John F., Bracknell, England. Handle-bar for cycles	603,542	May 3	556	122	83	708
Sargeant, John W., Elmwood, Nebr. Plow	609,370	Aug. 16	2238	529	84	1120
Sargent, Charles G., assignor of one-half to C. H. Wheeler, Exeter, N. H. Bake-pan	598,888	Feb. 8	1385	333	82	884
Sargent Company. (See Sargent, William D., assignor.)						
Sargent & Company. (See Sargent, Edward R., assignor.)						
Sargent & Company. (See Sargent, Henry B., assignor.)						
Sargent & Company. (See Shaw, John H., assignor.)						
Sargent & Company. (See Sparks, William E., assignor.)						
Sargent, Edward L. (See Meats and Sargent.)						
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Box-faster	614,181	Nov. 15	1666	383	85	978
Sargent, Frank E., Chicago, Ill. Creamer	608,482	Aug. 2	559	125	84	766
Sargent, Frederick G., Graniteville, Mass. Ducker for wool-washing machines	605,653	June 14	1096	252	83	1581
Sargent, Frederick G., Graniteville, Mass. Wool-drying machine	615,913	Dec. 13	1247	292	85	1668
Sargent, George H., R. H. Coupe, and B. Walker, Bingley, England. Loom for weaving looped pile fabrics	608,226	Aug. 2	103	26	84	675
Sargent, George H., R. H. Coupe, and B. Walker, Bingley, England. Loom for weaving looped pile fabrics	610,507	Sept. 13	788	179 } 180 }	84 } 83 }	1606
Sargent, Henry B., assignor to Sargent & Company, New Haven, Conn. Bolt-case	602,271	Apr. 12	1182	259	83	238
Sargent, Henry B., assignor to Sargent & Company, New Haven, Conn. Door-holder	613,427	Nov. 1	396	91	85	692
Sargent, James F., Saugus, assignor to H. M. Sylvester, Melrose, Mass. Window-awning	604,087	May 17	1582	354	83	957
Sargent, Justin B., West Lebanon, N. H. Nut-lock	603,050	Apr. 26	2523	573	83	523
Sargent, Warren E., Haverhill, assignor of one-third to C. S. Davis, Merrimac, Mass. Be-laying-grip	598,441	Feb. 1	641	157	82	725
Sargent, William D., Chicago, Ill. Key for brake-shoes	613,887	Nov. 8	1186	271	85	863
Sargent, William D., assignor to Sargent Company, Chicago, Ill. Brake-shoe	600,294	Mar. 8	1249	285	82	1477
Sargent, Willis H. (See Fairbanks and Sargent.)						
Sartain, William H. (See Lauer, Henry, assignor.)						
Sarter, John G., Cando, N. D. Sled-motor	614,990	Nov. 29	3199	736	85	1298
Sarvis, Charles R., Summit, N. J. Ironing-table	597,528	Jan. 18	1852	429	82	394
Sater, Hans H., assignor to Janesville Machine Company, Janesville, Wis. Sulky-plow	606,032	June 21	1843	424	83	1737
Satterthwaite, Joseph W., Mingo Junction, Ohio. Bicycle attachment	615,106	Nov. 29	3416	783	85	1337
Satterwhite, Emmett J., Falls City, assignor of two-thirds to F. E. and C. W. Faring-ton and T. F. Sullivan, Richardson county, Nebr. Winding-machine	609,300	Aug. 16	2128	504 } 505 }	84 } 84 }	1098
Sattes, John C., assignor of one-half to E. C. Colcord, St. Albans, W. Va. Nut-lock	615,367	Dec. 6	274	63	85	1466
Sattler, George, Elkhart, Wis. Runner attachment for bicycles	607,088	July 12	860	186	84	185
Sattley, Archibald. (See Sattley, Marshall and A.)						
Sattley, Archibald. (See Sattley and Heineke.)						
Sattley Manufacturing Company. (See Sattley, Marshall and A., assignors.)						
Sattley Manufacturing Company. (See Sattley and Heineke, assignors.)						
Sattley, Marshall and A., assignors to Sattley Manufacturing Company, Springfield, Ill. Combined plow and planter	609,216	Aug. 16	1961	465 } 466 }	84 }	1064
Sattley, Marshall and A., assignors to Sattley Manufacturing Company, Springfield, Ill. Wheel-plow	615,310	Dec. 6	152	40, 41	85	1443
Sattley, Marshall and A., and M. Heineke, assignors to Sattley Manufacturing Company, Springfield, Ill. Corn-planter	609,215	Aug. 16	1959	465	84	1064
Saucier, John R., New Iberia, La. Ball-bearing	606,491	June 28	2705	623	83	1926
Sauer, Emil L., Chicago, Ill. Steam-engine valve	597,436	Jan. 18	1693	392	82	362
Sauer, Theodor B., Oberreifenberg, Germany. Pipe-hanger	603,924	May 10	1239	281	83	856
Sauer, William, Milwaukee, Wis. Hoisting apparatus	599,360	Feb. 22	2229	530	82	1081
Sauerbrey, Christian, assignor of one-half to T. D. Gere, Owego, N. Y. Device for attaching fenders to cars	606,156	June 21	2068	475 } 476 }	83 }	1781
Saunders, Cecil L., Cleveland, Ohio. Manufacture of carbons	598,646	Feb. 8	991	240	82	808
Saunders, Charles H., Borton, assignor to O. A. Miller, Brockton, Mass. Last	597,784	Jan. 25	2296	536	82	496
Saunders, John C. (See Owens, John A., assignor.)						
Saunders, Samuel L., Lynn, Mass. Rack for holding boots or shoes	597,862	Jan. 25	2431	566	82	522
Saunders, Samuel Q., New Bridge, Oreg. Spring-gear	599,259	Feb. 15	2014	478	82	1018
Saunders, Theodore, Danbury, Conn. Apparatus for cleaning inside of surface-condenser tubes	614,625	Nov. 22	2506	572	85	1146
Saunders, William E. (See Funk, Alexander W., assignor.)						
Saunders, William L., North Plainfield, N. J. Air lift-pump	597,023	Jan. 11	990	233	82	208
Saunderson, George, et al. (See Taylor, Charles, assignor.)						
Sautter, Gaston. (See Blondel and Sautter.)						
Sauvage, William H., Silverton, Colo. Brake	608,136	July 26	2959	635	84	629
Sauvage, William H., Denver, Colo. Brake	608,561	Aug. 2	693	157	84	793
Savage, A. C. (See Cooper, John A., assignor.)						
Savage, Alexander J., assignor of one-fourth to A. J. Bolsom, Norfolk, Va. Salt and pepper box	610,087	Aug. 30	3525	817	84	1402
Savage, Arthur C. (See Cooper, John A., assignor.)						
Savage, Arthur W., Utica, N. Y. Magazine magnetic tack-hammer	599,741	Mar. 1	107	25	82	1236
Savage, Arthur W., assignor, by mesne assignments, to Savage Repeating Arms Company, Utica, N. Y. Indicator for firearms	611,284	Sept. 27	2094	482	84	1898
Savage, George C., assignor to Bernson Manufacturing Company, New York, N. Y. Bicycle-chain adjustment	602,545	Apr. 19	1649	375	83	342
Savage, Manford, Champaign, Ill. Station-indicator	609,052	Aug. 16	1654	394	84	1008
Savage Repeating Arms Company. (See Savage, Arthur W., assignor.)						
Savage, Rufus L., Enosburg, Vt. Fruit-picker	597,659	Jan. 18	2069	484	82	437
Savery, Thomas H., Wilmington, Del. Paper-making machine	611,420	Sept. 27	2353	542	84	1946
Savery, Thomas H., Wilmington, Del. Paper-making machine	611,421	Sept. 27	2358	542	84	1946
Savery, Thomas H., Wilmington, Del. Paper-making machine	611,422	Sept. 27	2362	543	84	1946
Savidge, Susan F., Asbury Park, N. J. Cake-box, &c	606,880	July 5	452	97	84	89
Saville, Jason. (See Waite and Saville.)						
Savorgnan, Cora A. S. di B. (See Savorgnan, Detalmo di B., assignor.)						
Savorgnan, Detalmo di B., assignor to C. A. S. di B. Savorgnan, Rome, Italy. Post depositing and collecting receptacle, &c	597,437	Jan. 18	1694	393 } 394 }	82 }	362
Savory, Robert, Warrington, England. Soap-press	611,710	Oct. 4	207	49, 50	85	43
Saw, Charles, Philadelphia, Pa. Apparatus for carbonating and bottling malt liquids	601,735	Apr. 5	219	43	83	42



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Sawdy, Orvill H., assignor to Page Woven Wire Fence Company, Adrian, Mich. Wire-splice	598,275	Feb. 1	364	85	82	670
Sawin, Isaac W. (See Taft, Walter E., assignor.)						
Sawtelle, Claude D., Coalport, Pa. Harness-rein	600,652	Mar. 15	1868	427	82	1614
Sawyer, Albert H. (See Gardiner, Joseph B., assignor.)						
Sawyer, Daniel, and J. W. Price, Nixonton, N. C. Sash-balance	601,283	Mar. 29	2973	672	82	1866
Sawyer, George W. (See Wilson, Freeman P., assignor.)						
Sawyer, Harry, Muskegon, Mich. Crane	608,227	Aug. 2	105	27	84	675
Sawyer, Harry B., assignor of one-half to M. Wheeler, Chicago, Ill. Trolley-wheel	597,693	Jan. 18	2130	498	82	447
Sawyer, Orren A., and M. M. Lahue, Lowell, Mass.; said Sawyer assignor to said Lahue. Protector stop mechanism for looms	603,860	May 10	1130	254	83	836
Sawyer Spindle Company. (See Stimpson, Wallace I., assignor.)						
Sawyer, Theodore, Towanda, Ill. Gate	605,748	June 14	1247	289	83	1610
Saxton, Lionel D., Philadelphia, Pa. Cushioned horseshoe	600,555	Mar. 15	1722	393	82	1587
Saxton, M. A. (See Kennedy, John W., assignor.)						
Sayer, Robert C., Bristol, England. Car-coupling	603,996	May 10	1363	310	83	882
Sayer, William H., Adams, Oreg. Cultivator	612,277	Oct. 11	1216	291	85	245
Sayers, John H., et al. (See Gump, Alexander, assignor.)						
Sayers, William B., assignor to himself and Mavor & Coulson, Limited, Glasgow, Scot-land. Dynamo-electric machine	607,593	July 19	1965	407 408	84	418
Sayers, William R., et al. (See Gump, Alexander, assignor.)						
Saylor, John H., Lafayette, Ind. Wood-scraper	612,677	Oct. 18	1927	456 354 355	85	393
Saylor, Franklin G., Boston, Mass. Steam or hot-water grate and generator	604,088	May 17	1583	354 355	83	957
Sayre & Co., L. A. (See Cottrell, Herbert, assignor.)						
Sayre, Enoch, and T. J. Johnson, Chillicothe, Ohio. Gate	611,740	Oct. 4	263	63	85	54
Sayre, Thomas E., Janesville, Wis. Box-fastener	605,919	June 21	1620	372	83	1699
Scales, Yewell D., assignor of one-half to G. A. Sanders, Springfield, Ill. Necktie-fastener	600,295	Mar. 8	1250	285	82	1477
Scanlan, Edward. (See Keifel and Zipp, assignors.)						
Scanlan, Matthew J. F., New York, N. Y. Vehicle attachment	616,636	Dec. 27	2652	614	85	1981
Scarborough, Josiah S., New Philadelphia, Ohio. Oiling device	606,303	June 28	2360	546	83	1858
Scarth, John W., Pudsey, and W. A. Thornton, Wetherby, England. Apparatus for generating acetylene gas	605,137	June 7	126	32	83	1375
Scattaglia, Matilde L., Philadelphia, Pa. Opera-chair attachment	599,797	Mar. 1	208	51	82	1254
Schaaake, Henry, New Westminster, Canada. Can ending or heading machine	605,189	June 7	234	56, 57	83	1395
Schacht, George. (See Gunerman and Schacht.)						
Schade, George, Poughkeepsie, N. Y. Self-locking hinge	598,647	Feb. 8	994	241	82	808
Schadt, John W. (See McHenry, Henry C., assignor.)						
Schaedle, Mathias, et al. (See Wurthner, Jacob, assignor.)						
Schaefer, Edward, St. Louis, Mo. Fire-extinguisher	600,804	Mar. 15	2131	487	82	1664
Schaefer, Edward, assignor to Missouri Lamp and Manufacturing Company, St. Louis, Mo. Fire-extinguisher	616,362	Dec. 20	2135	497	85	1862
Schaefer, George H. A., Buffalo, N. Y. Galvanic appa. atus	600,380	Mar. 8	1380	315	82	1503
Schaefer, William F. (See Pallas, Alexander, assignor.)						
Schaeffer, Henri N. F., Manchester, N. H. Dyeing mixed goods. (Reissue)	11,647	Feb. 1	719		82	739
Schaeffer, Henri N. F., Manchester, N. H. Printing on mixed goods	614,237	Nov. 15	1797		85	1002
Schaerges, Carl F. M., and P. Schwarz, assignors to F. Hoffmann-La Roche & Co., Basle, Switzerland. Making alkaline acetosulfanilate	602,646	Apr. 19	1826		83	375
Schaerges, Carl F. M., and P. Schwarz, assignors to F. Hoffmann-La Roche & Co., Basle, Switzerland. Acetyl derivative of phenetidin	602,690	Apr. 19	1912		83	392
Schäfer, Ernst. (See Mann and Schäfer.)						
Schafer, John C. F., Mount Pulaski, Ill. Windmill-governor	601,284	Mar. 29	2975	672	82	1866
Schafer, Louis, St. Louis, Mo. Apparatus for recrimping crown-seals for bottles	602,916	Apr. 26	2302	525	83	481
Schäffer, Lehman D., Redlands, Cal. Adjustable prop for fruit-trees	612,142	Oct. 11	974	236	85	200
Schaffer, Morse B., St. Louis, Mo. Car-truck	603,457	May 3	373	84, 85	83	672
Schaffer, Morse B., assignor of one-half to C. H. Howard, St. Louis, Mo. Hand-car	615,753	Dec. 13	975	226 227	85	1616
Schaffner, Henry L., Florence, Italy. Bicycle-saddle	607,282	July 12	1223	261	84	253
Schaffner, Henry L., Florence, Italy. Bicycle-saddle	607,283	July 12	1224	261	84	253
Schager, Carl H., Stockholm, and J. M. J. Lundin, Wärtan, Sweden. Lock for railway-switches	606,362	June 28	2478	575 576	83	1880
Schaibly, Theobald E. J., New York, N. Y. Bicycle	613,943	Nov. 8	1270	288	85	879
Schaibly, Theobald E. J., New York, N. Y. Chain-propelled vehicle	616,021	Dec. 13	1459	341	85	1710
Schail, Michael S., assignor of one-half to G. H. Meily and S. M. Brice, Lima, Ohio. Dis-connecting-coupling for pull-roads	602,037	Apr. 5	778	168 169	83	147
Schairer, John J., Clint. assignor of forty-nine one-hundredths to F. E. Hunter, El Paso county, Tex. Fruit-jar and can opener	606,587	June 28	2886	668	83	1961
Schaldenbrand, Joseph, assignor to F. W. Preussell, Mount Clemens, Mich. Acetylene-gas generator	616,147	Dec. 20	1725	400	85	1778
Schaper, William C., St. Louis, Mo. Station-indicator	613,320	Nov. 1	177	39	85	650
Schäperkötter, Frederick W. C., assignor of one-half to L. A. Schäperkötter, St. Louis, Mo. Knockdown barrel and binding therefor	613,531	Nov. 1	568	129	85	724
Schäperkötter, L. A. (See Schäperkötter, Frederick W. C., assignor.)						
Schapler, Richard, Frankfurt-on-the-Main, Germany. Fire-escape ladder	610,692	Sept. 13	991	230	84	1649
Scharbach, Peter J., Woodburn, Oreg. Non-refillable bottle	612,574	Oct. 18	1735	411	85	357
Scharff, John L., Reading, Pa. Window-guard	607,707	July 19	2166	455	84	455
Scharnweber, William, assignor of one-half to B. A. Dyer, St. Louis, Mo. Indicator-lock	606,741	July 5	186	41	84	38
Schaub, Jacob, Salt Lake City, Utah. Photographic-plate holder	603,972	May 10	1312	301	83	871
Schaum, Otto W., Philadelphia, Pa. Centrifugal machine	605,017	May 31	3242	745	83	1313
Schaum, Otto W., Philadelphia, Pa. Batten, shuttle-block, and shuttle for looms	607,486	July 19	1773	369	84	383
Schaum, Otto W., Philadelphia, Pa. Parcel-carrier for bicycles	607,487	July 19	1775	369	84	384
Schaum, Otto W., Philadelphia, Pa. Chainless bicycle	616,262	Dec. 20	1952	454	85	1825
Schauman, Fridolf, Stockholm, Sweden. Interlocking switch and signaling apparatus for railways	600,679	Mar. 15	1929	439	82	1625
Schausten, August, Washington, D. C. Battery or turret for coast defense	600,891	Mar. 22	2284	521	82	1706
Scheeffer, Gustave A., assignor to Diamond Electric Company, Peoria, Ill. Direct-current meter	599,302	Feb. 15	2094	496	82	1033
Scheele, Walter T., assignor to C. Beringer, Rahway, N. J. Making coloring-extracts	610,282	Sept. 6	272		84	1494
Scheeren, Hugo M., New York, N. Y. Pedal-crank	610,923	Sept. 20	1397	320	84	1746
Scheerer, Frederick, St. Louis, Mo. Hitching device	610,088	Aug. 30	3526	817	84	1402
Scheffer, William F., Philadelphia, Pa. Lubricator	598,013	Jan. 25	2686	627	82	571
Scheffler, Peter H. (See Schmidt, Julius H., assignor.)						
Scheffler, Peter H., et al. (See Schmidt, Julius H., assignor.)						
Scheibe, Julius, Berlin, Germany. Door-check	598,442	Feb. 1	642	158	82	725



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Scheid, Adam and C., Harrison, N. J. Combined door spring and check	611,285	Sept. 27	2095	482 483	84	1899
Scheid, Carl. (See Scheid, Adam and C.)						
Scheinkman, Bernard, New York, N. Y. Self-retaining splint	602,917	Apr. 26	2303	525	83	482
Schelble, Reinhard, New York, N. Y. Safety gas-cock	611,762	Oct. 4	292	69	85	60
Schelble, Reinhard, New York, N. Y. Gas-burner	612,651	Oct. 18	1884	446	85	385
Schelden, Harry G. (See Bealer and Schelden.)						
Scheller, Oswald, Phillips, Wis. Piano-action	600,680	Mar. 15	1932	439	82	1626
Schellinger, Isaac M., Royersford, Pa. Demijohn	604,089	May 17	1586	355	83	958
Schenck, Adolph. (See Schenck, August and A.)						
Schenck, August and A., San Antonio, Tex. Device for keeping contents of vessels beneath the surface of liquid therein contained	615,754	Dec. 13	977	227	85	1617
Schenck, Charles M., Denver, Colo. Scale	610,307	Sept. 6	320	68, 69	84	1503
Schenson, Elis G. A., Arbra, assignor to Patentaktiebolaget Svea, Stockholm, Sweden.	598,309	Feb. 1	423	100 101	82	682
Shaping-machine for wood, &c						
Schenson, Elis G. A., Arbra, assignor to Patentaktiebolaget Svea, Stockholm, Sweden.	606,476	June 28	2679	617 618	83	1920
Feeder for scutching-machines						
Schepman, Frederick W. (See Northall and Schepman.)						
Schepman, George W., Richmond, Ind. Luggage-rack for bicycles	610,244	Sept. 6	188	42	84	1478
Scherber, Albert E. A., et al. (See Morgan, James, assignor.)						
Scherber, Carl, et al. (See Morgan, James, assignor.)						
Scherber, Frederick, et al. (See Morgan, James, assignor.)						
Scherber, Julius, et al. (See Morgan, James, assignor.)						
Scherer, Joseph, assignor to himself and J. Heider, Buffalo, N. Y. Hand clamping device for molding-flasks	605,347	June 7	562	124	83	1460
Scherer, Loephus T., assignor of one-half to H. C. Jones, Hall, Ind. Hydrocarbon-burner	609,838	Aug. 30	3090	721	84	1316
Scherer, Charles G., and E. Hilt, Lafayette, Ind. Corn-harvester	611,513	Sept. 27	2519	582	84	1978
Scherer, Jacob A. (See Scherer, William, assignor.)						
Scherer, William, assignor of one-half to J. A. Scherer, South Chicago, Ill. Nut-lock	598,747	Feb. 8	1164	279	82	840
Scherff, Edmund, et al. (See Kleber, Emil, assignor.)						
Schermerhorn, James B., Malden, N. Y. Medicine-dropper	603,973	May 10	1313	301	83	871
Scherpe, John F., deceased; L. Scherpe, St. Louis, Mo., administratrix. Electric railway	600,381	Mar. 8	1381	316	82	1503
Scherpe, Louise, administratrix. (See Scherpe, John F.)						
Scheuber, August W., assignor to M. Zinn, New York, N. Y. Combined belt-buckle and purse or bag	603,974	May 10	1314	301	83	871
Scheuber, August W., assignor to M. Zinn, New York, N. Y. Stropping-machine	613,825	Nov. 8	1076	245	85	841
Schidrowitz, Philip, and O. Rosenheim, London, assignors to Joseph Turner & Company, Limited, Queensberry, England. Piperidin derivative	597,745	Jan. 25	2218		82	482
Schidrowitz, Philip, and O. Rosenheim, London, assignors to Joseph Turner & Company, Limited, Queensberry, England. Piperidyl carbamate of piperidin and making same	614,991	Nov. 29	3202		85	1298
Schidrowitz, Philip, and O. Rosenheim, London, assignors to Joseph Turner & Company, Limited, Queensberry, England. Piperidin salts and making same	615,051	Nov. 29	3315		85	1319
Schiemann, Emil, et al. (See Tersling, Hilmar, assignor.)						
Schier, Oscar B., assignor to H. F. Miller & Son, Baltimore, Md. Apparatus for pasteurizing and sterilizing milk, &c	605,920	June 21	1621	373	83	1699
Schies, John, Anderson, Ind. Jar-closure	597,299	Jan. 11	1441	338	82	296
Schies, John, Anderson, Ind. Jar-closure	612,678	Oct. 18	1929	456	85	393
Schiffer, Joseph J. (See Shaft, Henry S., assignor.)						
Schild, Edward H., assignor of one-half to H. Castberg, Baltimore, Md. Advertising-sign	616,022	Dec. 13	1461	342	85	1711
Schild, Peter J., Ionia, Mich. Wire fence	601,986	Apr. 5	695	148	83	131
Schildhauer, Joachim, New Holstein, Wis. Feed-cutter	611,335	Sept. 27	2178	503 504	84	1914
Schiller, Adolf, Godesberg, Germany. Device for facilitating opening of preserve-jars	614,579	Nov. 22	2413	551	85	1131
Schilling, Charles F., St. Louis, Mo. Pipe-hook	597,438	Jan. 18	1703	394	82	364
Schilz, Frank, assignor to H. Loewenbach, Milwaukee, Wis. Paper-feeding device	607,958	July 26	2649	563 564	84	565
Schilz, Frank, assignor to H. Loewenbach, Milwaukee, Wis. Bill or toilet paper holder	610,245	Sept. 6	189	42	84	1478
Schimansky, Herrmann, Berlin, Germany. Manufacturing matrix-sheets	615,577	Dec. 6	673		85	1544
Schiminsky, Adolf, Cleveland, Ohio. Pulley	609,976	Aug. 30	3340	777	84	1364
Schindehütte, Ernst J., McKee's Rocks, Pa. Rail-joint	606,089	June 21	1956	450	83	1760
Schindehütte, Ernest J., McKee's Rocks, Pa. Bottle-stopper	612,652	Oct. 18	1885	446	85	385
Schindler, Andrew J., Chicago, Ill. Machine for working off kegs or barrels	611,336	Sept. 27	2180	504 505	84	1914
Schindler, Joseph, Engle, Tex. Clock attachment	600,322	Mar. 8	1290	294 295	82	1485
Schindlers Brothers. (See Eisenberg, Christian, assignor.)						
Schönning, Julius, and M. B. Hansen, Copenhagen, Denmark. Air-valve for pneumatic tires	610,976	Sept. 20	1494	340	84	1764
Schirm, Carl C., assignor of one-half to O. Lessing, Berlin, Germany. Producing ceramic compositions	609,907	Aug. 30	3203		84	1338
Schirott, Julius F. (See Gaynor and Washburne, assignors.)						
Schirra, Julius, et al. (See Wurthner, Jacob, assignor.)						
Schirra, Julius, Pittsburg, Pa. Thread-protector	600,892	Mar. 22	2285	521	82	1707
Schlachter, Philipp, Streator, Ill. Fluid-pressure motor	606,304	June 28	2362	546 547	83	1858
Schlaepfer, Wenner & Co. (See Züblin and Zingg, assignors.)						
Schlauffy, Julius H., Canton, Ohio. Tubular or hurricane lantern	612,508	Oct. 18	1608	384	85	333
Schlapbach, Albert, Scandia, Kans. End-gate fastener	610,332	Sept. 6	372	79	84	1511
Schlapbach, Albert, Scandia, Kans. Wire-fence-gate fastener	611,741	Oct. 4	264	63	85	54
Schlatter, Alfred, Buda-Pesth, Austria-Hungary. Automatic switch apparatus	611,869	Oct. 4	483	117	85	97
Schlegelmilch, Heinrich E., Suhl, Germany. Gun-lock	609,169	Aug. 16	1872	446	84	1046
Schleicher, Frank J., assignor to St. Louis Paper Box Company, St. Louis, Mo. Can	602,775	Apr. 19	2045	462	83	418
Schleicher, John W., Louisville, Ky. Cutter-head	608,272	Aug. 2	177	42, 43	84	690
Schleidt, Adam, and W. Pehl, Wiesbaden, Germany; said Pehl assignor to said Schleidt.						
Cock						
Schlemmer, Oliver, Cincinnati, Ohio. Water-heating system	605,018	May 31	3243	745	83	1313
Schlemmer, Philippine, Philadelphia, Pa. Money packet or holder	598,327	Feb. 1	450	108	82	687
Schlieder, Augustus E., Sioux City, Iowa. Current-motor	610,727	Sept. 13	1053	242	84	1662
Schlieper, John E., Allegheny, Pa. Live-steam heater and purifier	607,959	July 26	2653	564	84	566
Schlieper, John E., Allegheny, Pa. Live-steam heater and purifier	597,489	Jan. 18	1797	416	82	383
Schlieper, John E., Allegheny, Pa. Sectional feed-water heater	607,960	July 26	2654	564 565 566	84	567
Schlosser, John S., Wadsworth, Ill. Jack	610,246	Sept. 6	190	43	84	1479
Schluder, Gustav, Deuben, Germany. Means for keeping glass clear in regenerative glass furnaces	602,111	Apr. 12	902	195	83	183



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Schluer, Martha. (See Schluer, William, assignor.)						
Schluer, William, assignor to M. Schluer, Terre Haute, Ind. Bicycle	599,152	Feb. 15	1845	437	82	986
Schlundt, Charles H. (See Dohm and Schlundt.)						
Schlunz, Frederick H., Michigan City, Ind. Baby-walker	612,278	Oct. 11	1217	291	85	246
Schmadeke, John F., New York, N. Y. Rolling-shoe for coal-barrels, &c.	611,080	Sept. 20	1685	387	84	1800
Schmahl, John A., assignor to S. M. Schmahl, Fairman, Ill. Railway-tie	602,388	Apr. 12	1382	309	83	278
Schmahl, Sarah M. (See Schmahl, John A., assignor.)						
Schmaltz, Friedrich, Offenbach-on-the-Main, Germany. Saw-sharpening machine.	598,232	Feb. 1	282	64	82	656
Schmick, Wilson E., <i>et al.</i> (See Maurer, James H., assignor.)						
Schmick, Wilson E., Hamburg, assignor of one-third to M. L. Ritter, Reading, Pa. Machine for removing nuts from bolts	599,260	Feb. 15	2015	478	82	1018
Schmid, Albert, assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Electric railway-motor	609,977	Aug. 30	3342	778	84	1365
Schmid, August, New York, N. Y. Convertible wash and bath tub	615,499	Dec. 6	541	123	85	1517
Schmid, Charles, Brussels, Belgium. Making artificial musk	602,961	Apr. 26	2335		83	498
Schmid, Henri, Mülhausen, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Process of discharging red	598,118	Feb. 1	80		82	618
Schmid, Jakob, assignor to Society of Chemical Industry, Basle, Switzerland. Bismuth-oxyiodin tannate	604,571	May 24	2491		83	1149
Schmid, Jakob, and H. Rey, Basle, Switzerland, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Red-violet phthalein dye	609,997	Aug. 30	3381		84	1372
Schmid, Jakob, and H. Rey, Basle, Switzerland, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Sulfonated monobenzyl-phthalein dye	609,998	Aug. 30	3383		84	1373
Schmidt, Adolf, Cassel, Germany. Rendering apparatus	614,135	Nov. 15	1598	366 367	85	965
Schmidt, Adolph, Cassel, Germany. Apparatus for extracting gaseous products from dry distillation of wood	616,637	Dec. 27	2653	614	85	1981
Schmidt, Edward J. (See Ashley, Silas R., assignor.)						
Schmidt, Erich, and A. F. Schneider, New York, N. Y. Coin-operated lock for vehicle-wheels	605,749	June 14	1249	289	83	1611
Schmidt, Evert, assignor of one-half to E. B. Patton, Waupun, Wis. Hinge	611,742	Oct. 4	266	64	85	55
Schmidt, Frederick M., J. H. Gerry, and W. S. Barstow, assignors to Self Winding Clock Company, New York, N. Y. Electric time-switch	611,822	Oct. 4	402	96, 97	85	80
Schmidt, Friedrich. (See Steinike and Schmidt.)						
Schmidt, Henry A. (See Newkirk and Schmidt.)						
Schmidt, Henry C., Baltimore, Md. Cock	612,914	Oct. 25	2368	564	85	496
Schmidt, Henry F. J., Newark, N. J. Appliance for bending wood	613,725	Nov. 8	905	207	85	809
Schmidt, Herman B. (See Joslin and Schmidt.)						
Schmidt, Herman B., Cincinnati, assignor of one-half to Black & Clawson Company, Hamilton, Ohio. Evaporator	614,627	Nov. 22	2515	573	85	1148
Schmidt, Herman C., New York, N. Y. Water-tower	602,244	Apr. 12	1133	249 250	83	228
Schmidt, Jacob, Rio Vista, Cal. Compressed-air hammer	602,198	Apr. 12	1064	233	83	214
Schmidt, John, Stockholm, Sweden. Steam or gas turbine wheel	596,792	Jan. 4	595	138	82	114
Schmidt, John C., Westfield, Mass. Sectional broom or brush	596,793	Jan. 4	595	138	82	114
Schmidt, Julius G., Erkner, Germany. Water-tube boiler	607,284	July 12	1225	262	84	253
Schmidt, Julius H., assignor of one-fourth to P. H. Scheffler, Bayonne, N. J. Vending-machine	600,697	Mar. 15	1959	447 99	82	1631
Schmidt, Julius H., assignor to J. C. Ryer, Bayonne, N. J. Cigarette-making machine	603,488	May 3	445	100 101 102	83	687
Schmidt, Julius H., assignor of three-fourths to W. E. S. Crane, A. L. Field, J. C. Ryer, and P. H. Scheffler, Bayonne, N. J. Cigarette-making machine	596,547	Jan. 4	150	34	82	31
Schmidt, Julius H., assignor of nine-sixteenths to P. H. Scheffler, A. L. Field, J. C. Ryer, and E. S. Holman, Bayonne, N. J. Cigarette-making machine	612,872	Oct. 25	2299	548 549	85	483
Schmidt, Michael, Cramer's Hill, N. J. Air-engine	614,992	Nov. 29	3202	736	85	1298
Schmidt, Oscar, <i>et al.</i> (See Hochspeier, William F., assignor.)						
Schmidt, Paul H. (See Straka and Schmidt.)						
Schmidt, Robert E., assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue-black alizarin dye	599,425	Feb. 22	2358		82	1108
Schmidt, Robert E., Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, New York, N. Y. Green dye derived from anthraquinone	599,426	Feb. 22	2360		82	1108
Schmidt, Robert E., Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, New York, N. Y. Green dye derived from quinizarin	599,427	Feb. 22	2362		82	1109
Schmidt, Robert E., Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, New York, N. Y. Dark-green alizarin derivative	603,659	May 10	763		83	765
Schmidt, Robert E., Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Anthraquinone dye	605,568	June 14	925		83	1551
Schmidt, Robert E., and P. Tust, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Company, of New York. Blue anthraquinone dye	605,921	June 21	1624		83	1699
Schmidt, Theodore F. W., Anderson, Ind., assignor of one-half to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Egg-case	601,449	Mar. 29	3258	737	82	1919
Schmidt, Wilhelm, Ballenstedt, Germany. Apparatus for regulating superheated steam	604,547	May 24	2444	555	83	1139
Schmidt, Wilhelm, Ballenstädt, Germany. Steam generator and superheater	609,631	Aug. 23	2752	641 642	84	1236
Schmidt, Wilhelm, Ballenstädt, Germany. Compound engine with regulator for superheated steam	615,311	Dec. 6	155	41	85	1443
Schmidt, Wilhelm, Arlington, N. J. Refining camphor	610,664	Sept. 13	945		84	1640
Schmith, Niels, <i>et al.</i> (See Tersling, Hilmar, assignor.)						
Schmitt, George E., Wellsburg, W. Va. Sash-roller	599,261	Feb. 15	2017	478	82	1019
Schmitt, Henry J., Dewar, Iowa. Automatic railway-signal	600,323	Mar. 8	1291	295	82	1485
Schmitt, Henry J., Hoboken, and R. Bonnell, Elizabeth, N. J. Valve	604,592	May 24	2520	573	83	1154
Schmitt, Jacob, Jr. (See Smith and Schmitt.)						
Schmitt, Jacob B. (See Margeson and Schmitt.)						
Schmitt, Martin, Caborn, Ind. Horseshoe-nail clencher and hoof-trimmer	603,975	May 10	1315	302	83	872
Schmitt, Thomas F., Fairview, Kans. Portable grain-elevator	602,776	Apr. 19	2046	463	83	418
Schmitz, Constanx, Berlin, Germany. Vessel for containing liquid gases	597,024	Jan. 11	992	234	82	209
Schmitz, Egon L., New York, N. Y. Safety-razor	611,286	Sept. 27	2099	483	84	1899
Schmitz, Joseph A. (See Morrow and Schmitz.)						
Schmitz, Theodore H., Philadelphia, Pa. Window structure	604,868	May 31	3003	689 690	83	1266
Schmitz, Theodore H., Philadelphia, Pa., assignor to Philadelphia Safety Window Company, Camden, N. J. Window structure	602,245	Apr. 12	1138	250	83	229
Schmuck, Solomon H., Cleveland, Ohio. Can	613,888	Nov. 8	1187	271	85	863
Schmucker, Emanuel D., Ayr, Ind. Wind-motor	600,893	Mar. 22	2287	521	82	1707



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Schmunk, Charles E., Pittsburg, Pa. Apparatus for manufacturing articles of glass-ware	604,908	May 31	3076	706 707	83	1280
Schmunk, Charles E., Pittsburg, assignor of one-half to W. S. McKee, Allegheny, Pa. Apparatus for manufacturing glassware	604,907	May 31	3070	705 706	83	1279
Schnabel, Frederic, New London, Iowa. Razor	610,770	Sept. 13	1132	260	84	1677
Schnabel, Herman E., Chicago, Ill. Machine for making wire bale-ties	596,721	Jan. 4	471	108	82	91
Schneckoeth, Henry. (See Wilson, Muma, Unger, Schneckoeth, Brosius, and Kuchel.)						
Schneckoeth, Henry, Holstein, Iowa. Acetylene-gas generator	606,305	June 28	2363	547 548	83	1859
Schnée, Carl E., Carlsbad, Austria-Hungary. Galvanic bath	608,228	Aug. 2	106	27	84	676
Schneebeli, Gustav A., Nazareth, Pa. Corset-waist	607,639	July 19	2047	425	84	434
Schneible, Joseph, New York, N. Y. Method of and apparatus for saturating corks	599,798	Mar. 1	209	52	82	1255
Schneible, Joseph, New York, N. Y. Collecting gas from fermenting liquors	604,125	May 17	1648	370	83	969
Schneible, Joseph, New York, N. Y. Method of and apparatus for collecting and purifying gas	611,081	Sept. 20	1686	387	84	1801
Schneider, Adolf, Dresden-Striesen, Germany. Tool for use in poker-work	597,746	Jan. 25	2219	516	82	482
Schneider, Adolph, and B. Hecht, Brooklyn, N. Y. Truck	599,917	Mar. 1	461	103	82	1301
Schneider, Adolph F. (See Schmidt and Schneider.)						
Schneider, August. (See Perfler and Schneider.)						
Schneider, Carl, Brooklyn, N. Y. Attachment for sewing-machines	604,161	May 17	1712	386	83	982
Schneider, Carl, New York, N. Y. Engraving and ruling machine	615,755	Dec. 13	978	227 228 229	85	1617
Schneider, Frederick, Erie, Pa. Transmission-gearing	607,640	July 19	2048	425 426	84	434
Schneider, Friedrich W., assignor to Electricitäts-Gesellschaft Triberg, Gesellschaft mit Beschränkter Haftung, Triberg, Germany. Secondary battery	602,172	Apr. 12	1019	224	83	205
Schneider, George, Augusta, Kans. Car-coupling	616,363	Dec. 20	2137	497	85	1863
Schneider, Gottlieb, and W. H. Hill, Kendallville, Ind. Tank-heater	609,949	Aug. 30	3281	765	84	1353
Schneider, Gustav J., Sheboygan, and K. F. G. Brenner, Kaukauna, Wis. Blackboard	604,422	May 24	2202	494	83	1097
Schneider, Jacob M., et al. (See Stump, Ira E., assignor.)						
Schneider, John A., assignor of two-thirds to P. F. Schneider, Toronto, and T. G. Rakestraw, Hamilton, Canada. Sheet-iron stove	613,781	Nov. 8	995	227	85	826
Schneider, John B., assignor to H. G. Hagey, St. Louis, Mo. Sheet-metal stove-leg	604,639	May 24	2599	593	83	1170
Schneider, John F. (See Schneider, Rudolph J. and J. F.)						
Schneider, John N., Mendota, Ill. Plane	597,622	Jan. 18	2004	467 468	82	425
Schneider, Joseph, assignor of one-half to W. Wolff, San Francisco, Cal. Game-counter	603,514	May 3	506	110	83	698
Schneider, Louis H., Brooklyn, N. Y. Rivet-setting machine	603,743	May 10	900	200	83	791
Schneider, Peter F., et al. (See Schneider, John A., assignor.)						
Schneider, Phillip, Buffalo, N. Y. Swing	596,722	Jan. 4	475	109	82	92
Schneider, Richard, Dresden, Germany. Furnace for working zinc and lead	605,802	June 14	1369	314	83	1632
Schneider, Rudolph, Pottsville, and J. F. Schneider, Muir, Pa. Clinometer	613,782	Nov. 8	996	227	85	826
Schneider, William H., assignor of one-half to F. T. Ralf, New York, N. Y. Dam for repairing breaks in levees	616,690	Dec. 27	2768	644	85	2003
Schneiderlöchner, Frank and M., Pittsburg, Pa. Velocipede	606,943	July 5	538	118	84	107
Schneiderlöchner, Martin. (See Schneiderlöchner, Frank and M.)						
Schneidewind, Carl T. G., Hamburg, Germany. Driving mechanism for vehicles	608,008	July 26	2758	586	84	590
Schneller, August. (See Van der Sleen and Schneller.)						
Schnorr, Herman. (See Underhill, Andrew J., 2d, assignor.)						
Schock, Gustav, New York, N. Y. Barrel-washer	605,138	June 7	128	32, 33	83	1376
Schock, Gustav, New York, N. Y. Barrel-washer	605,139	June 7	131	33, 34	83	1376
Schodt, Paul G. de, Namur, Belgium. Incandescent gas-burner	610,283	Sept. 6	273	59	84	1494
Schoeffel, George J. (See Colgate, Arthur E., assignor.)						
Schoeller, Otto, Cologne, Germany. Coin-controlled cycle-holder	614,897	Nov. 29	3002	688	85	1258
Schoen, Anna, et al. (See Schoen, Paul, assignor.)						
Schoen, Charles, Rhinelander, Wis., assignor of one-third to J. W. Conners, Wakefield, Mich. Device for setting up matchers	614,136	Nov. 15	1600	367	85	966
Schoen, Charles T., Philadelphia, Pa. Bolster for railway-cars	604,794	May 31	2875	657	83	1242
Schoen, Peter, Allegheny, Pa. Steam-valve	614,311	Nov. 15	1916	442	85	1024
Schoen, Paul, assignor of two-thirds to A. Schoen and A. H. Silverman, Glens Falls, N. Y. Shirt	606,898	July 5	475	102	84	94
Schoenefeldt, Charles, Stockton, Cal. Potato-digger	612,439	Oct. 18	1497	361	85	312
Schoening, Edward E. (See Webb and Schoening.)						
Schoenleber, Gottlob H., Stuttgart, Germany. Trunk	616,426	Dec. 20	2251	524	85	1885
Schoennauer, Emil F. W., Chicago, Ill. Diving apparatus	614,626	Nov. 22	2508	572 573	85	1147
Schoenthaler Manufacturing Company. (See Kochs, Benjamin, assignor.)						
Schoepf, George B., Minneapolis, Minn. Road-vehicle	616,497	Dec. 27	2405	557 558	85	1935
Schoettle, Charles, assignor of one-half to J. P. Piper, Chicago, Ill. Merry-go-round and mechanical race-track	598,750	Feb. 8	1167	280 281	82	840
Schoettle, Ferdinand, deceased, Philadelphia, Pa.; M. A. and W. C. Schoettle, executors. Machine for making paper tubes	604,090	May 17	1587	356 357	83	958
Schoettle, Mary A., et al., executors. (See Schoettle, Ferdinand.)						
Schoettle, William C., et al., executors. (See Schoettle, Ferdinand.)						
Schofield, Albert B., Brooklyn, assignor to Keystone Seal and Press Company, Limited, New York, N. Y. Car-seal	599,066	Feb. 15	1700	403	82	961
Schofield, Albert B., Brooklyn, assignor to Keystone Seal and Press Company, Limited, New York, N. Y. Seal-press	601,404	Mar. 29	3182	718	82	1905
Schofield, Henry P. (See Filstrup, Lars L., assignor.)						
Schofield, James D., Dallas, Tex. Straddle-row cultivator	600,210	Mar. 8	1106	252	82	1450
Schofield, James D., Dallas, Tex. Planter	602,173	Apr. 12	1020	224	83	205
Schofield, James D., Dallas, Tex. Planter	610,771	Sept. 13	1134	261	84	1677
Schofield, James D., assignor to Texas Implement and Machine Company, Dallas, Tex. Adjustable cultivator-tooth seat	605,140	June 7	134	34	83	1377
Schofield, James D., assignor to Texas Implement and Machine Company, Dallas, Tex. Cultivator	610,148	Aug. 30	3613	839 840	84	1420
Scholes, Edmondson. (See Hancock and Scholes.)						
Scholey, William A., and F. C. Schrader, Philadelphia, Pa. Cap for bottles	606,588	June 28	2887	668	83	1961
Schofield, Joseph J., Providence, R. I. Bevel-gear for roving-frames	596,947	Jan. 4	859	201	82	167
Scholich, Rudolph, Dresden, Germany. Toilet-paper	616,739	Dec. 27	2854	662	85	2021
Scholz, Jos. (See Strecker, Otto C., assignor.)						
Scholz, Louis A., Roanoke, Va. Bottle-stopper	607,285	July 12	1227	262	84	253
Schonhoff, Franz, Uniontown, Mo. Land-roller	609,632	Aug. 23	2755	642	84	1236
Schooley, Matthew P., Homestead, Pa. Paper clip or holder	601,384	Mar. 29	3144	709	82	1897



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Schooley, Will C., Braddock, assignor to H. M. Scott, Pittsburg, Pa. Railway-torpedo	597,889	Jan. 25	2467	577	82	529
Schoondermark, J. A. A., <i>et al.</i> (See Peters, Cornelis, assignor.)						
Schoondermark, Wilhelmus, <i>et al.</i> (See Peters, Cornelis, assignor.)						
Schoregge, Herman A., Wakefield, Nebr. Bake-oven	614,898	Nov. 29	3003	688 689	85	1258
Schörke, Alexander, Dresden, Germany. Apparatus for preserving alimentary substances	599,534	Feb. 22	2559	601	82	1145
Schott, Otto, Jena, Germany. Chimney for incandescent lamps	615,578	Dec. 6	674	155	85	1544
Schottmuller, Joseph. (See Fritschle, Emil, assignor.)						
Schou, Christian W., Antvorskov, Denmark. Tiled roof	605,750	June 14	1251	289	83	1611
Schou, Gunerius, Christiania, Norway. Magazine bolt-gun	604,423	May 24	2203	494	83	1097
Schrader, Albert. (See Baxter and Schrader.)						
Schrader, Frank C. (See Scholey and Schrader.)						
Schrader, Frank C., assignor to Imperial Metal Company, Philadelphia, Pa. Valve for siphon-heads, spigots, &c	598,578	Feb. 8	875	209	82	787
Schrader, Frank C., assignor to Imperial Metal Co., Philadelphia, Pa. Sprayer	613,321	Nov. 1	179	39	85	651
Schrader, George H. F., New York, N. Y. Tire-valve or the like	604,424	May 24	2209	495	83	1099
Schrader, George H. F., New York, N. Y. Tire-valve, &c	604,425	May 24	2211	495	83	1099
Schrader, George H. F., New York, N. Y. Tire-valve and pump-coupling	607,525	July 19	1834	383	84	395
Schrader, George H. F., New York, N. Y. Pneumatic-tire or other valve	607,526	July 19	1836	383	84	395
Schrader, George H. F., New York, N. Y. Tire or other valve	607,527	July 19	1840	383	84	396
Schrader, Henry C., Mount Pleasant, Pa. Glass cutting-off or severing machine	610,588	Sept. 13	829	190	84	1615
Schrader, Henry C., Mount Pleasant, Pa. Glass-blowing machine	610,589	Sept. 13	832	191	84	1616
Schrader, Henry C., Mount Pleasant, Pa. Engraving-machine for glass	612,978	Oct. 25	2467	589	85	517
Schrafft, George F. (See Schrafft, William E. and G. F.)						
Schrafft, William E. and G. F., Somerville, Mass. Display device for confectionery	610,247	Sept. 6	192	43	84	1479
Schatwieser, Christian. (See Schratwieser, Jacob, assignor.)						
Schatwieser, Jacob, assignor to C. Schratwieser, New York, N. Y. Tile partition, wall, or ceiling	611,514	Sept. 27	2521	582	84	1978
Schraubstadter, George E., Galveston, Tex. Hose-nozzle	612,934	Oct. 25	2399	572	85	504
Schreiner, Clara, Brownville, Nebr. Soap-receptacle	605,976	June 21	1734	399	83	1719
Schreiner, John A., Johnsonburg, Pa. Mail-bag fastener	612,143	Oct. 11	975	236	85	200
Schrenkeisen, Henry G., New York, N. Y. Convertible furniture	610,089	Aug. 30	3527	817	84	1402
Schreuder, Jens G., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signal	606,429	June 28	2609	601 602	83	1906
Schreuder, Jens G., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Railway signaling	611,943	Oct. 4	605	147 148	85	118
Schribaux, Pierre E. L. (See Baudoin and Schribaux.)						
Schroder, Henry V., Minier, Ill. Loading or unloading machine	598,119	Feb. 1	81	19	82	618
Schroder, Nicholas. (See Rusch, Henry A., assignor.)						
Schroeder, Carl P. R., Harrison, N. J. Bicycle-lock	599,017	Feb. 15	1626	385	82	945
Schroeder, Frederick W. (See Midson and Schroeder.)						
Schroeder, Frederick W., Newtown, assignor to Schroeder's Ball Bearing Company, Limited, Sydney, New South Wales. Ball-bearing	609,371	Aug. 16	2238	529	84	1120
Schroeder, Henry F., Cleveland, Ohio. Hydraulic pump	602,666	Apr. 19	1871	425	83	384
Schroeder, Richard F., Sacramento, Cal. Preliminary cooler for ice-machines	609,999	Aug. 30	3384	785	84	1373
Schroeder, William F., Long Grove, Iowa. Wire-fastener	616,498	Dec. 27	2407	558	85	1936
Schroeder's Ball Bearing Company. (See Schroeder, Frederick W., assignor.)						
Schroedter, Richard, Chicago, Ill. Wheel and axle for vehicles	602,475	Apr. 19	1535	349	83	322
Schroyer, Charles A., Chicago, Ill. Draw-bar for railway-cars	599,637	Feb. 22	2774	644 645	82	1189
Schry, Harry A., Loreley, Md., assignor of three-fourths to G. Krueger, Johnstown, Pa. Power-transmitter	598,014	Jan. 25	2687	627	82	571
Schubert, Edward A., St. Charles, assignor of one-half to E. A. Zimmermann, St. Louis, Mo. Musical instrument	609,706	Aug. 23	2871	670	84	1259
Schubert, Hermann, New York, N. Y. Step-ladder	610,284	Sept. 6	276	59, 60	84	1495
Schubert, Karl. (See Puchner and Schubert.)						
Schubert, Oskar, Berlin, assignor to L. H. F. B. Harbers, Hamburg, Germany. Joint-measuring scale	597,330	Jan. 11	1502	350	82	309
Schubert, Paul R., and A. Stelzenmüller, Chemnitz, Germany. Supporting-table for machine-tools	612,915	Oct. 25	2369	564	85	496
Schubert, William, Oneida, N. Y. Carriage-spring	607,886	July 26	2524	535	84	541
Schuch, John P., Jr., Cripple Creek, Col. Means for extracting precious metals	611,515	Sept. 27	2522	583	84	1978
Schuermann, Anton, Decatur, Ill. Shears for use in vises	613,322	Nov. 1	180	40	85	651
Schuetz, Charles. (See Faber du Faur, Adolph, assignor.)						
Schuetz, Charles, Newark, N. J. Clip for drop-light wires	601,860	Apr. 5	471	95	83	88
Schuhmann, George, Reading, Pa. Starting and reversing mechanism for steam-engines	613,783	Nov. 8	998	228	85	827
Schule, Friedrich H., Hamburg, Germany, assignor to P. Jones, New Hanover county, N. C. Grain-polishing apparatus	605,922	June 21	1625	373	83	1699
Schule, Friedrich H., Hamburg, Germany, assignor to P. Jones, New Hanover county, N. C. Drum for glazing grains, &c	605,923	June 21	1626	373	83	1700
Schule, Friedrich H., Hamburg, Germany, assignor to P. Jones, New Hanover county, N. C. Oscillating support for shaking-sieves	605,924	June 21	1626	374	83	1700
Schuler, Eugene, <i>et al.</i> (See McCann, Bernard, assignor.)						
Schuler, Gustav, <i>et al.</i> (See McCann, Bernard, assignor.)						
Schulte, Henry B., San José, Cal. Evaporator	616,638	Dec. 27	2654	614	85	1981
Schulte, Henry J., Los Angeles, Cal. Fountain-pen	609,978	Aug. 30	3344	778	84	1365
Schultheiss, Rupert. (See Murray and Schultheiss.)						
Schultz, Bernard V. H. (See Ferguson, Charles H., assignor.)						
Schultz, Carl H. S., Granbury, Tex. Reversible hoe	612,179	Oct. 11	1039	249	85	213
Schultz, Charles L. and R. A., Chicago, Ill. Traction-engine	611,711	Oct. 4	210	50	85	43
Schultz, Edward H., and E. H. Starkey, Grant, Minn. Back-pedaling brake	609,372	Aug. 16	2240	529 530	84	1121
Schultz, Fred P., New York, N. Y. Shoe-lace fastener	604,126	May 17	1650	370	83	970
Schultz, John A. (See Peterson, Gustaf, assignor.)						
Schultz, Louis, assignor to L. Schultz, New York, N. Y. Stop-motion for sewing-machines	602,876	Apr. 26	2223	503	83	467
Schultz, Louise. (See Schultz, Louis, assignor.)						
Schultz, Robert A. (See Schultz, Charles L. and R. A.)						
Schultz, Walter W., assignor to Wayne Works, Richmond, Ind. Seeding-machine	605,348	June 7	564	125	83	1460
Schultz, Walter W., assignor to Wayne Works, Richmond, Ind. Carriage-pole	614,767	Nov. 22	2756	629	85	1195
Schulz, Carl J., Hamburg, Germany. Drying damp walls	597,808	Jan. 25	2339	546	82	504
Schulze, Arthur, Chicago, Ill. Kitchen-sink	597,529	Jan. 18	1853	430	82	394
Schulze, Frederick. (See Schulze, Robert and L. F., assignors.)						
Schulze, Gustav, Eisleben, Germany. Cement roofing-tile	605,654	June 14	1097	252	83	1581
Schulze, Gustav A., Halle, Germany. Feeding mechanism for cloth-folding machines	611,799	Oct. 4	355	86	85	71



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Schulze, Leon F. (See Schulze, Robert and L. F.)						
Schulze, Robert and L. F., assignors to F. Schulze, Cleveland, Ohio. Ball-grinding machine	602,365	Apr. 12	1340	299	83	270
Schumacher, Albert H. (See Hoff, Charles, assignor.)						
Schumacher, Ferdinand, Naperville, Ill. Compressed-air mechanism for vehicles or other devices	601,285	Mar. 29	2977	672	82	1866
Schumacher, James E., York, England. Steam-engine	601,385	Mar. 29	3145	710	82	1898
Schumacher, Johann K., Wermelskirchen, Germany. Selvage-weaving device for looms.	602,366	Apr. 12	1343	299	83	271
Schumacher, Peter A., Reynolds, N. D. Harrow	610,611	Sept. 13	865	198	84	1623
Schuman, James B., Columbia, assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Pneumatic elevator	603,925	May 10	1240	281 282	83	857
Schuman, James B., Columbia City, assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Automatic weigher	609,908	Aug. 30	3204	751	84	1338
Schumm, John, Ticonderoga, N. Y. Flag-cane	614,277	Nov. 15	1867	431	85	1014
Schunck, Jacob M., and A. L. Zender, Celina, Ohio. Movable-top writing-desk	606,090	June 21	1957	450	83	1760
Schunk, Friedrich. (See Kappler and Schunk.)						
Schuppheus, Robert C., Brooklyn, N. Y. Pyroxylin compound	598,648	Feb. 8	995		82	809
Schuppheus, Robert C., Brooklyn, N. Y. Pyroxylin compound	598,649	Feb. 8	996		82	809
Schuppheus, Robert C., Brooklyn, N. Y. Pyroxylin compound	600,556	Mar. 15	1723		82	1587
Schureman, David S., Rockford, Ill. Water-closet	604,548	May 24	2447	556	83	1319
Schussler, George, San Francisco, Cal. Water-filter	603,708	May 10	845	187	83	781
Schuster, Frederick W., Rochester, Minn. Bottle truck and drainer	616,737	Dec. 27	2852	661	85	2021
Schutte, Louis, Philadelphia, Pa. Condenser	615,914	Dec. 13	1249	292 293	85	1669
Schutz, August M., Jersey City, N. J. Bicycle brake and alarm	597,863	Jan. 25	2432	566	82	522
Schuyler, James D. (See Noble, Theron A., assignor.)						
Schwaabe, Edward, Klodno, Austria-Hungary. Adjustable guard-railing for windows	597,825	Jan. 25	2364	552	82	509
Schwab, Charles M. (See Wellman and Schwab.)						
Schwab, Charles M., Munhall, Pa. Apparatus for manufacturing axles	599,638	Feb. 22	2775	645	82	1189
Schwab, Gustave, assignor to Schwab Manufacturing Company, New York, N. Y. Album-support	598,818	Feb. 8	1268	307	82	860
Schwab Manufacturing Company. (See Schwab, Gustave, assignor.)						
Schwab, Rudolph J., Milwaukee, Wis. Furnace	613,216	Oct. 25	2871	677 678	85	597
Schwabe, Georg, Biala, Austria-Hungary. Shuttle-box-operating mechanism for looms.	604,669	May 24	2650	607 608	83	1180
Schwanengel, Charles W., and J. F. Sacksteder, Dayton, Ohio. Stovepipe-thimble	600,894	Mar. 22	2288	522	82	1707
Schwarting, Richard, New York, N. Y. Crutch	616,738	Dec. 27	2853	661	85	2021
Schwartz, Benjamin F. (See Buckley, Michael G. F., assignor.)						
Schwartz, Charles W., Jr., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying-machine for wool, &c.	600,805	Mar. 15	2133	487	82	1664
Schwartz, Henry P., Rolla, Mo. Ax	604,943	May 31	3122	718	83	1290
Schwartz, John, Jr., London, England, assignor to H. Carmichael, Malden, Mass. Method of and apparatus for charging liquids with gas	608,397	Aug. 2	412	90	84	737
Schwartz, Samuel L., New York, N. Y. Roller-skate	597,025	Jan. 11	994	234	82	209
Schwartz, York, Hanover, Germany. Flash-light composition	613,021	Oct. 25	2534	603	85	531
Schwarz, Arthur, Berlin, Germany. Photographic-printing apparatus	601,882	Apr. 5	504	104	83	95
Schwarz, Arthur, Berlin, Germany. Photographic-printing apparatus	601,883	Apr. 5	506	104	83	95
Schwarz, Arthur, Berlin-Schöneberg, Germany. Continuous photographic-printing apparatus	607,648	July 19	2068	431	84	437
Schwarz, Arthur, Berlin-Schöneberg, Germany. Apparatus for treating and washing photographic paper	607,649	July 19	2069	432	84	437
Schwarz, Arthur, Berlin-Schöneberg, Germany. Pneumatic photographic-printing apparatus	612,550	Oct. 18	1684	400	85	348
Schwarz, August. (See Hoffmann, Adolph G., assignor.)						
Schwarz, Charles L. (See Garis, David V., assignor.)						
Schwarz, Jacob, New York, N. Y. Waistband for trousers	597,026	Jan. 11	995	234	82	209
Schwarz, Jacob, assignor to J. Schwarz, New York, N. Y. Machine for forming loops and sewing same to fabrics	598,682	Feb. 8	1059	255 256	82	820
Schwarz, Julius. (See Schwarz, Jacob, assignor.)						
Schwarz, Louie. (See De Remer, Jared R., assignor.)						
Schwarz, Paul. (See Schaerges and Schwarz.)						
Schwarzschild, Solomon, assignor to E. A. Nash, I. Gibbard, and P. R. McPhail, Rochester, N. Y. Apparatus for printing checks	615,107	Nov. 29	3418	784	85	1337
Schwechler, John, assignor of seven-eighths to A. Bruestle, W. R. Murphey, G. Meng, E. H. Reading, Philadelphia, Pa., and F. M. Martin, Ventnor, N. J. Soap cup or holder	599,361	Feb. 22	2231	530	82	1081
Schwedler, Gustav H., assignor of one-half to G. W. Loring, Kansas City, Mo. Lock	608,229	Aug. 2	107	27	84	676
Schwedtmann, Ferdinand, St. Louis, Mo. Fusible cut-out	601,286	Mar. 29	2979	673	82	1867
Schwedtmann, Ferdinand, St. Louis, Mo. Dynamo or motor	603,709	May 10	846	187 188	83	781
Schwedtmann, Ferdinand, St. Louis, Mo. Electrical converter	612,122	Oct. 11	948	229	85	195
Schwedtmann, Ferdinand, St. Louis, Mo. Electrical connector	612,123	Oct. 11	949	229	85	196
Schwedtmann, Ferdinand, St. Louis, Mo. Annealing-box	614,768	Nov. 22	2757	630	85	1195
Schweichler, Carl W., Chicago, Ill. Coat-pad	615,500	Dec. 6	542	124	85	1517
Schweinefleisch, Ernst, Mühlhausen, Germany. Apparatus for grinding card-teeth	598,015	Jan. 25	2688	627 628	82	571
Schweiter, Jean, Horgen, Switzerland. Weft-thread-spooling machine	596,794	Jan. 4	596	138 139	82	114
Schweitzer, Frederick J. (See Mittinger, George E., Jr., assignor.)						
Schweitzer, Joseph. (See Gundorph, Ferdinand, assignor.)						
Schweizer, Ferdinand, Paterson, N. J. Bedstead	598,606	Feb. 8	921	221	82	796
Schwenkerley, Adolf, New York, N. Y., assignor to National Water Bronze Company, of New York. Bronze composition and making same	613,944	Nov. 8	1272		85	879
Schwey, Edward H., Shoals, Ind. Sack-holder	604,795	May 31	2876	658	83	1242
Schwing, George, Newark, N. J. Lift for sashes, transoms, or skylights	605,681	June 14	1144	266	83	1590
Schwone, John H., Salamanca, N. Y. Automatic bicycle-tire pump	598,748	Feb. 8	1165	279	82	840
Scofield, Edwin N., Cos Cob, Conn. Suspenders	606,899	July 5	476	102	84	94
Scofield, John R., assignor of four-fifths to G. D. and J. W. Hunt, J. P. Degenhart, and O. Hunt, Dallas, Tex. Speed-gearing	599,870	Mar. 1	376	84	82	1284
Scofield, Richard J., Manchester, England. Appliance for indicating position of punctures in pneumatic tires	601,907	Apr. 5	549	113	83	104
Scoles, James W., Martinsville, Ill. Cup or pail	610,285	Sept. 6	277	60	84	1495
Scopes, Edward J., Albany, N. Y. Egg-beater	599,661	Feb. 22	2816	654 655	82	1197
Scott, Baxter C., French Camp, Miss. Chair-support	613,323	Nov. 1	181	40	85	651
Scott, Benton, and W. S. Benton, Anderson, Ind. Self-clenching tug-holder	610,693	Sept. 13	994	230	84	1650



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Scott, Charles, Minneapolis, Minn. Hat-fastener	600,622	Mar. 15	1823	418	82	1605
Scott, Charles, assignor to Charles Scott Spring Company, Philadelphia, Pa. Confining-band for springs	598,394	Feb. 1	549	134	82	706
Scott, Charles B., assignor to U. G. Woodman and W. B. Lord, Chicago, Ill. Box	613,784	Nov. 8	999	228	85	827
Scott, Charles F., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Means for compensating for temperature-resistance changes	606,033	June 21	1844	425	83	1738
Scott, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. System of electrical distribution	611,151	Sept. 20	1822	419 420	84	1827
Scott, Charles F., and B. G. Lamme, assignors to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. System of electrical distribution	606,589	June 28	2888	668	83	1961
Scott, Charles L., McIntire, Iowa. Tank-valve	602,525	Apr. 19	1614	369	83	336
Scott, Charles S., assignor of three-fourths to R. P. Scott and H. A. Rogers, Cadiz, Ohio. Pneumatic tire	608,273	Aug. 2	178	43	84	690
Scott, Clarence N., assignor to Snow Steam Pump Works, Buffalo, N. Y. Pumping-engine	609,950	Aug. 30	3282	765	84	1353
Scott, Dugald, Manchester, England. Surgical bandage	598,016	Jan. 25	2690		82	571
Scott, George L., Manchester, England. Vehicle-wheel	607,961	July 26	2655	566	84	567
Scott, Gordon J., Philadelphia, Pa. Velocipede	598,819	Feb. 8	1269	308	82	861
Scott, Harry M. (See Schooley, Will C., assignor.)						
Scott, Henry H., et al. (See Davies, Charles W. T., assignor.)						
Scott, James, Pittsburgh, Pa. Means for protecting furnace-walls	601,759	Apr. 5	264	52	83	51
Scott, John L., Martinsburg, Ill. Disk cultivator	615,576	Dec. 6	669	154	85	1543
Scott, John W., Albionville, Queensland. Curing hides or skins for transport	602,476	Apr. 19	1536		83	322
Scott, Lucien J., and F. A. Cameron, Bogue Chitto, Miss. Show-case	615,915	Dec. 13	1254	293 294	85	1669
Scott, Lucius M. (See Hastings and Scott.)						
Scott, Marion F., Daleville, Ind. Clothes-holder for wardrobes	613,081	Oct. 25	2640	623	85	551
Scott, Robert, Nottingham, England. Jacquard mechanism for embroidering-machines	610,248	Sept. 6	192	43	84	1479
Scott, Robert D. (See Halfpenny, Martin, assignor.)						
Scott, Robert P. (See Nelson, Edward B., assignor.)						
Scott, Robert P., et al. (See Scott, Charles S., assignor.)						
Scott, Robert P., Cadiz, Ohio, and J. A. Chisholm, Oakville, Canada. Pea-separating machine	608,230	Aug. 2	110	28	84	676
Scott, Robert W. (See Williams and Swinglehurst, assignors.)						
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Yarn-changing device for rib-knitting machines	604,640	May 24	2600	594	83	1170
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Knitting-machine	607,002	July 5	653	142 143	84	130
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Striped knitted fabric	609,707	Aug. 23	2872	671	84	1259
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Knitted fabric	614,349	Nov. 15	2004	463	85	1042
Scott, Thomas W., London, England. Valve for steam-engines	596,624	Jan. 4	294	65	82	59
Scott, Walter, Plainfield, N. J. Printing-machine	612,873	Oct. 25	2305	549	85	484
Scott, William, Medford, Mass. Flushing device	610,977	Sept. 20	1495	340	84	1764
Scott, William F., Alexandria, assignor to I. A. Jones and J. A. Dugan, Indianapolis, Ind. Display-rack	597,530	Jan. 18	1854	430	82	394
Scott, William F., assignor to I. A. Jones and J. A. Dugan, Indianapolis, Ind. Display-rack	599,799	Mar. 1	211	52	82	1255
Scott, William G., Rock Dell, Minn. Bob-sled	613,889	Nov. 8	1188	271 272	85	863
Scott, William H., Norwich, England. Engine	600,806	Mar. 15	2134	487	82	1665
Scott, William H., assignor of one-half to G. Eyermann, St. Louis, Mo. Ditching-machine	601,106	Mar. 22	2628	600	82	1772
Scott, William J., Chicago, Ill. Stock-waterer	614,238	Nov. 15	1800	415	85	1002
Scott, Wood H., White Mills, Ky. Metal railway-tie	599,639	Feb. 22	2776	645	82	1189
Scovell, Leon J., Poynette, Wis. Game-board	608,918	Aug. 9	1368	324	84	940
Scovill Manufacturing Company. (See Ashley, Edward L., assignor.)						
Scovill Manufacturing Company. (See Goss, Edward O., assignor.)						
Scovill Manufacturing Company. (See Goss, John H., assignor.)						
Scovill Manufacturing Company. (See Lines, John, assignor.)						
Scovill Manufacturing Company. (See Pullman, Herbert S., assignor.)						
Scovill Manufacturing Company. (See Shipley, Alfred J., assignor.)						
Scovill Manufacturing Company. (See Shipley and Hyde, assignors.)						
Scoville, Charles S., et al. (See Newell, John G., assignor.)						
Scoville, Elijah U., Manlius, N. Y. Faucet	603,744	May 10	903	201	83	792
Scranton, Francis M. (See Weaver and Scranton.)						
Scranton, Frederick A., assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Bicycle-bell	612,124	Oct. 11	950	230	85	196
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Plug and spring-jack for telephone-switchboards	596,625	Jan. 4	295	65	82	59
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Spring-jack for telephone-switchboards	596,626	Jan. 4	298	65, 66	82	59
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Annunciator for telephone-lines	596,627	Jan. 4	300	66	82	59
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Supervisory signal for telephone-switchboards	596,628	Jan. 4	302	66	82	60
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Testing apparatus for multiple switchboards	596,629	Jan. 4	304	67	82	60
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards	596,630	Jan. 4	306	67	82	61
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards	597,785	Jan. 25	2298	536	82	496
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-circuit	597,786	Jan. 25	2301	536	82	496
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards	597,787	Jan. 25	2303	537	82	497
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Automatic electric door-closer	599,800	Mar. 1	212	52	82	1255
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Toll-collecting device for telephones	599,801	Mar. 1	214	52	82	1256
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Magnetic switch	616,148	Dec. 20	1727	400	85	1778
Scribner, Elmer C., administrator. (See Scribner, John M.)						
Scribner, John M., deceased, Balsover, Canada; E. C. Scribner, administrator. Invalid-bed	606,247	June 28	2267	523 524	83	1839
Scriven, Jeremiah A., New York, N. Y. Drawers	597,747	Jan. 25	2220	517	82	482



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Scriven, Jeremiah A., New York, N. Y. Garment	610,564	Sept. 13	789	180	84	1606
Scrivener, Thomas, Belle Fourché, S. D. Whiffletree attachment	616,204	Dec. 20	1832	423	85	1801
Scroggs, Joseph W., Rogers, Ark. Pessary	602,777	Apr. 19	2047	463	83	418
Scrogin, John M., and H. C. Womelsdorff, Tyler, Tex. Oil-box cellar and dust-guard	606,686	July 5	92	20	84	20
Scudder, Wilbur S., Brooklyn, N. Y., assignor to Monoline Composing Company, Wash- ington, D. C. Monoline composing-machine	605,141	June 7	136	34 35 36 37 38 39	83	1377
Scull, James W., Elizabeth, N. J. Tool-sharpening device	609,301	Aug. 16	2130	505	84	1099
Scuri, Alessandro G. B., Gravedona, Italy. Distance-measuring instrument	605,830	June 14	1420	324	83	1642
Seabolt, Lemuel W. (See Morgan and Dunnagan, assignors.)						
Seabrook, Bagster R., Victoria, Canada. Rock-crusher	616,427	Dec. 20	2251	525	85	1885
Seacoast Jetty Company. (See Baillie, Gertrude S., assignor.)						
Seagrave, Frederic S., Columbus, Ohio. Automatic coupling or lock for extension-lad- ders	607,664	July 19	2097	437	84	442
Seagrave, Frederic S., Columbus, Ohio. Trussed ladder	607,665	July 19	2099	437	84	442
Seagrave, Frederic S., Columbus, Ohio. Combined locking and hoisting apparatus for extension-ladders	613,848	Nov. 8	1112	253	85	848
Seale, John H. G., London, England. Pneumatic tire	614,278	Nov. 15	1868	431	85	1015
Seaman, Benjamin S., Canton, Ohio. Bicycle-seat clamp	605,518	June 14	836	195	83	1534
Seaman, Benjamin S., Canton, Ohio. Bicycle-saddle	606,393	June 28	2534	587	83	1890
Seaman, Daniel C., W. R., and M. R., Philadelphia, Pa. Expansion-anchor	610,308	Sept. 6	321	69	84	1503
Seaman, Ezra M. O., Beaver Falls, Pa. Bottle-stopper	610,149	Aug. 30	3616	840	84	1421
Seaman, George L. (See Grosheim and Seaman.)						
Seaman, Herbert H., assignor to Stylus Pencil Company, New York, N. Y. Pencil	609,909	Aug. 30	3207	752	84	1339
Seaman, Herbert H., assignor to Stylus Pencil Company, New York, N. Y. Pencil	609,910	Aug. 30	3210	752	84	1339
Seaman, Milton R. (See Seaman, Daniel C., W. R., and M. R.)						
Seaman, Wilson R. (See Seaman, Daniel C., W. R., and M. R.)						
Seaman, William O., Springfield, Mass. Step-ladder	604,482	May 24	2327	528	83	1119
Seamans, Daniel A., assignor of one-half to J. E. Fogarty, Cumberland, R. I. Wrench	614,993	Nov. 29	3203	737	85	1299
Seamless Rubber Company. (See Longden, Charles E., assignor.)						
Sequest, Alfred L. (See Sequest, Charles L. and A. L.)						
Sequest, Charles L. and A. L., Portland, Oreg. Mud-guard for bicycles	606,091	June 21	1957	450	83	1760
Search, Casper F., Oak Park, Ill., assignor to Search Manufacturing Company, Sheboy- gan Falls, Wis. Feed-cutter	604,127	May 17	1651	371	83	970
Search Manufacturing Company. (See Search, Casper F., assignor.)						
Sergeant, William F., Marshall, Mo. Fence-machine	611,800	Oct. 4	356	86	85	71
Sergeant, William F., Marshall, Mo. Slat-and-wire-fence machine	611,944	Oct. 4	607	148 149	85	119
Searle, Frank, Ennis, Mont. Umbrella attachment	616,736	Dec. 27	2851	661	85	2021
Searles, Charles P., Columbus, Ohio. Wringer	615,312	Dec. 6	157	41	85	1444
Searls Manufacturing Company. (See Dickinson, William A., assignor.)						
Sears, Charles, Cleveland, Ohio. Key-actuated equalizing-bar	606,814	July 5	336	71	84	67
Sears, Charles, Cleveland, Ohio. Interlocking device for type-writing machines	606,944	July 5	539	118	84	107
Sears, Charles, Cleveland, Ohio. Pneumatic bicycle-brake	614,899	Nov. 29	3005	689	85	1258
Sears, Charles, Cleveland, Ohio. Method of and machine for making matrices	616,562	Dec. 27	2512	581	85	1955
Sears, Lee A., Nevada, Mo., and F. Rice, Kansas City, Kans. Smoke-consuming furnace	602,962	Apr. 26	2386	544	83	498
Sears, Thomas H., Holyoke, Mass. Boiler-furnace	597,027	Jan. 11	995	234 235	82	210
Sears, Willard T., Boston, Mass. Construction of buildings	612,365	Oct. 11	1372	332	85	275
Sears, Willard T., Boston, Mass. Construction of panel-work	612,366	Oct. 11	1373	332	85	275
Seary, John E. (See Carroll and Seary.)						
Seat, Samuel A., Hematite, Mo. Gage	610,286	Sept. 6	278	60	84	1495
Seaton, Benjamin C., assignor to Electric Third Rail and Signal Company, St. Louis, Mo. Electric railway	610,090	Aug. 30	3528	817	84	1402
Seaton, Benjamin C., assignor to Electric Third Rail and Signal Company, St. Louis, Mo. Third rail for electric railways	610,091	Aug. 30	3530	818	84	1403
Seaton, Benjamin C., assignor to Electric Third Rail and Signal Company, St. Louis, Mo. Contact device for electric railways	610,092	Aug. 30	3531	818	84	1403
Seaton, Benjamin C., assignor to Electric Third Rail and Signal Company, St. Louis, Mo. Third rail for electric railways	610,093	Aug. 30	3533	818	84	1403
Seaton, Benjamin C., assignor to Electric Third Rail and Signal Company, St. Louis, Mo. Electric railway	610,094	Aug. 30	3533	819	84	1403
Seaton, John R., Cohoes, N. Y. Fender or guard for tramway-cars	598,538	Feb. 8	805	193	82	772
Seaver, Augustus, assignor to E. B. Seaver, Boston, Mass. Appliance for making inner soles	607,396	July 12	1419	303	84	291
Seaver, Augustus, Boston, and G. A. Chamberlin, North Abington, assignors to C. F. Brown, trustee, Reading, Mass. Velocipede-pedal	614,900	Nov. 29	3006	689	85	1259
Seaver, E. B. (See Seaver, Augustus, assignor.)						
Seaver, Ellick J. (See Seaver, Henry F., assignor.)						
Seaver, Fred, assignor to F. B. Fargo & Company, Lake Mills, Wis. Steam-motor	603,660	May 10	765	170	83	765
Seaver, Henry F., Hunter, Ill., assignor to E. J. Seaver, Beloit, Wis. Washing-machine	597,206	Jan. 11	1305	304	82	269
Seaver, John W. (See Babcock, Wellman, and Seaver.)						
Seaver, John W. (See Wellman, Seaver, and Wellman.)						
Seay, John E., Noblesville, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Cleaner for shaking-sieves	606,742	July 5	187	41	84	38
Sebastian, Charles, assignor to A. S. Mann, St. Louis, Mo. Pocket-register	602,918	Apr. 26	2304	525	83	482
Sebastian, John, and B. B. Anderson, Chicago, Ill. Railway-ticket	597,224	Jan. 11	1334	311	82	274
Sebastian, John, and B. B. Anderson, Chicago, Ill. Railway-ticket	605,655	June 14	1098	253	83	1582
Sebold, John G., New York, N. Y. Ironing-table	603,474	May 3	417	92	83	680
Sebolt, George W., Glenfield, Pa. Marine merry-go-round	608,081	July 26	2874	315	84	613
Seburn, William, assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneu- matic straw-stacker	596,914	Jan. 4	793	187 188	82	155
Secor, Jacob H., St. Joseph, Mich. Machine for uniting knit fabrics	608,626	Aug. 9	818	190	84	835
Secor, John A., Brooklyn, N. Y. Explosive-engine	602,477	Apr. 19	1537	349	83	322
Secoy, Samuel E., Marion, Ohio, assignor of three-eighths to J. E. and H. B. Cannaday, Anderson, and H. V. Bragg, Richmond, Ind. Draw-bar for railway-cars	614,769	Nov. 22	2758	630	85	1196
Sederholm, Edward T., assignor to Fraser & Chalmers, Chicago, Ill. Valve-gear for air- compressors	607,195	July 12	1049	227	84	219
Sedgwick, Harry A., Athol, Mass. Ball-cock	603,346	May 3	178	41	83	636
Sedlacek, Julius, Nuremberg, Germany. Condensing-water and air cooling apparatus for refrigerating-machines	601,716	Apr. 5	182	35, 36	83	36
Sedlacek, Julius, Nuremberg, Germany. Refrigerating-machine	602,199	Apr. 12	1067	234	83	215



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Sedlacek, Julius, Nuremberg, Germany. Cooling and sealing .....	604,162	May 17	1714	386	83	982
Sedlacek, Julius, Nuremberg, Germany. Gas-compressor .....	606,430	June 28	2611	602	83	1907
Sedlmayer, Joseph, Brooklyn, N. Y. Ash-receiver .....	600,382	Mar. 8	1385	316	82	1504
Sedlmayer, Joseph, New York, N. Y. Discharge-valve for ash-pits .....	611,516	Sept. 27	2527	583	84	1979
See, Horace. (See Russell, Frank J., assignor.)						
See, Horace, New York, N. Y. Steam-boiler .....	600,237	Mar. 8	1150	262	82	1459
See, James W., Hamilton, Ohio. Method of and appliance for making gears .....	600,994	Mar. 22	2454	559	82	1738
Seeger, William M., Louisville, Ky. Rubber-dam holder .....	604,890	May 31	3032	696	83	1272
Seekel, Theodore C., Bay City, Mich. Machine for sawing barrel-hoops .....	605,349	June 7	565	125	83	1460
Seeley, L. M., et al. (See Cowles, Albert, assignor.)						
Seeley, William W., Brooklyn, N. Y. Gas-burner .....	603,661	May 10	767	170	83	766
Seely, George A. (See Godden and Seely.)						
Seely, George A., assignor of one-half to J. H. Godden, Emmetsburg, Iowa. Threshold .....	596,948	Jan. 4	860	201	82	168
Seemann, Charles, et al. (See Stump, Ira E., assignor.)						
Seeser, Valentine. (See Anderson and Krauss, assignors.)						
Sefton, Joseph W. (See Bradt and Kindleberger, assignors.)						
Seger, Eberhard, Stockholm, Sweden. Power-transmitting arrangement for compound steam-turbines .....	607,962	July 26	2656	567	84	567
Segnitz, Herman. (See Fisher, Charles, assignor.)						
Segog, Byron G., et al. (See Penprase, Albert R., assignor.)						
Segog, John F., et al. (See Penprase, Albert R., assignor.)						
Segundo, Edward C. de, London, England. Apparatus for sterilizing milk, &c .....	615,108	Nov. 29	3419	784	85	1338
Segschneider, Gustav, Yonkers, N. Y. Machine for curling hat-brims .....	602,246	Apr. 12	1140	250	83	229
Seguy, Gaston, Paris, France. Portable camera for Roentgen-ray photography .....	601,172	Mar. 22	2742	630	82	1793
Seibert, Bennett F., Mansfield, Ohio. Cash register and recorder .....	606,768	July 5	259	54	84	52
Seibert, Elisabeth, Chicago, Ill. Vaginal syringe .....	605,682	June 14	1146	266	83	1591
Seidel, Gotthelf M., Easthampton, Mass. Lead-pencil .....	607,708	July 19	2167	456	84	455
Seidel, Heinrich, Vienna, Austria-Hungary. Mordant from sulfite-cellulose lyes .....	608,231	Aug. 2	112		84	676
Seidenspinner, Alois, Brooklyn, N. Y. Combined tobacco-pipe and cigar or cigarette holder .....	598,350	Feb. 1	480	115	82	692
Seifert, Bruno R., assignor to Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung, Radebeul, Germany. Making orthosulfamin-benzoic-acid alkyl esters .....	604,503	May 24	2364		83	1125
Seifert, Bruno R., assignor to Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung, Radebeul, Germany. Oxyphenyl-guanidin and making same .....	605,977	June 21	1734		83	1719
Seifert, John F. (See Baumeister, Leopold, assignor.)						
Seifert, John W., Dallas, Tex. Cotton elevator, cleaner, and feeder .....	604,426	May 24	2213	495	83	1100
Seiffert, Hermann, Halle-on-the-Saale, Germany. Steam-generator .....	608,799	Aug. 9	1126	261 262	84	893
Seiler, Paul. (See Williams and Seiler.)						
Seips, Michael. (See Manning and Seips.)						
Seitz, Michael, Weisburg, Ind. Tongue-carrier for harvesting-machines .....	614,137	Nov. 15	1601	367	85	966
Sekinger, Victor, Jeannette, Pa. Sounding toy .....	612,217	Oct. 11	1105	265	85	226
Sekora, Joseph A., and I. M. Bartlett, Ann Arbor, Mich. Wagon-tongue .....	615,501	Dec. 6	543	124	85	1517
Selby, Oscar E., Louisville, Ky. Railway-rail joint .....	611,945	Oct. 4	612	149	85	119
Selby, Wallace J., Burr Oak, Mich. Stove or furnace .....	605,519	June 14	837	195	83	1534
Selcer, John, Little Falls, N. Y. Skein-thread holder .....	613,324	Nov. 1	184	40	85	652
Selden, Arthur R., Rochester, N. Y. Ironing-machine .....	598,233	Feb. 1	285	64, 65	82	656
Selden, Arthur R., assignor to F. S. Macomber, trustee, Rochester, N. Y. Starching-machine .....	605,751	June 14	1252	289 290	83	1611
Seldis, Oscar, Boston, Mass. Lathe-tool and holder therefor .....	611,517	Sept. 27	2528	583 584	84	1979
Seldner, Jonas J. (See Snyder and Seldner.)						
Self Winding Clock Company. (See Schmidt, Gerry, and Barstow, assignors.)						
Selg, Otto, Brooklyn, N. Y. Mashing apparatus .....	598,120	Feb. 1	84	20	82	618
Selg, Otto, Brooklyn, N. Y. Cover-fastening for fruit-jars .....	599,458	Feb. 22	2425	570	82	1120
Seligman, David A., Providence, R. I. Envelop .....	614,994	Nov. 29	3204	737	85	1299
Sell, Leroy A., assignor of one-half to M. O. Sullivan, Philadelphia, Pa. Wire-stripping tool .....	608,919	Aug. 9	1369	324	84	940
Selle, Ferdinand, Akron, Ohio. Spring-vehicle .....	596,631	Jan. 4	309	67	82	61
Selle, Ferdinand, Akron, Ohio. Wagon end-gate .....	596,632	Jan. 4	310	67	82	61
Selle, Gustav, Brandenburg, Germany. Photographic-plate holder for three-color processes .....	604,268	May 17	1914	428	83	1021
Selle, Gustav, Brandenburg, Germany. Photographs in natural colors .....	604,269	May 17	1914		83	1021
Selle, Henry L., Ivesdale, Ill. Washing-machine .....	599,262	Feb. 15	2018	479	82	1019
Sellenscheidt, Carl, Berlin, Germany. Filter .....	612,916	Oct. 25	2370	565	85	496
Sellers, Coleman, Philadelphia, Pa., assignor, by mesne assignments, to Niagara Falls Power Company, Niagara Falls, N. Y. Thrust-bearing .....	602,589	Apr. 19	1720	391 392	83	355
Sellers, Elmer J., Kutztown, Pa. Hitching-post .....	598,017	Jan. 25	2690	628	82	571
Sellers, George B., Marshalltown, Iowa. Threshing and separating machine .....	613,082	Oct. 25	2641	624	85	552
Sellers, Matthew B., Carter county, Ky. Engine-valve .....	608,483	Aug. 2	560	125	84	767
Sellers, Minnie T., New York, N. Y. Dress-stiffener .....	615,579	Dec. 6	675	155	85	1544
Sellers, Morris, Chicago, Ill. Base-plate for railway-rail joints .....	605,520	June 14	839	195	83	1534
Selley, Frederick W., Enmore, and W. H. Nisbet, Sydney, New South Wales. Slack-adjuster .....	610,095	Aug. 30	3534	819	84	1404
Sellman, William, Dorking, England. Preparing liquid food .....	605,190	June 7	238		83	1396
Sellner, Leopold, Vienna, Austria-Hungary. Apparatus for visible signaling .....	599,742	Mar. 1	108	25 26 27 28	82	1237
Sells, Frank H., assignor of one-half to E. J. Swerer, Columbus, Ohio. Employee's time-recorder .....	608,800	Aug. 9	1129	262 263	84	894
Seltzer, Lewis B. (See Carroll, Fenton, Kline, and Seltzer.)						
Seltzer, William H., assignor to Asbestos Manufacturing Company, Philadelphia, Pa. Non-conducting pipe-covering .....	616,809	Dec. 27	2968	692	85	2045
Selvidge, Charles W., Mexia, Tex. Machine for stretching wire or other purposes .....	606,092	June 21	1959	450	83	1760
Selvidge, Charles W., assignor of one-half to J. B. Parnell, Mexia, Tex. Ant-trap .....	602,410	Apr. 12	1418	320	83	285
Selz, Emanuel F., assignor to Selz, Schwab & Company, Chicago, Ill. Machine for eye-letting shoes .....	614,668	Nov. 22	2586	588	85	1161
Selz, Schwab & Company. (See Selz, Emanuel F., assignor.)						
Semke, William, Harrison, Kans. Boiler-flue cleaner .....	606,093	June 21	1960	451	83	1760
Semmens, Arthur W., and J. J. Evel, Hamilton, Canada. Burial-casket .....	616,149	Dec. 20	1729	400	85	1779
Semmer, Phillip, Pittsburg, Pa. Glass-polishing machine .....	613,532	Nov. 1	569	129 130	85	724
Semple, William T. (See Dipbo, Bruce, Semple, and Powell.)						
Senderling, Martin L., Jersey City, N. J. Wagon-brake .....	614,628	Nov. 22	2517	573	85	1148
Senderling, Martin L., Jersey City, N. J. Fifth-wheel for vehicles .....	614,629	Nov. 22	2518	574	85	1148



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Seneca Glass Company. (See Stenger, August, assignor.)						
Senior, George. (See Dundas and Senior.)						
Senior, William, Pendleton, assignor to J. Williams, Salford, England. Apparatus for stripping flats of carding-engines	609,911	Aug. 30	3212	752	84	1339
Senior, William, Pendleton, assignor to J. Williams, Salford, England. Apparatus for stripping flats of carding-engines	609,912	Aug. 30	3213	752	84	1340
Serbán, Lazar M., Vienna, Austria-Hungary. Horseshoe	611,287	Sept. 27	2100	483	84	1899
Serbán, Lazar M., Vienna, Austria-Hungary. Three-sided calk	611,288	Sept. 27	2101	484	84	1900
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Compressor for air, &c	602,877	Apr. 26	2225	504	83	468
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Apparatus for raising liquids	615,412	Dec. 6	371	88, 89	85	1485
Sergeant, John B., assignor to W. Sergeant, Joplin, Mo. Apparatus for catching waste products from lead-smelters	597,660	Jan. 13	2070	485	82	437
Sergeant, Walter. (See Sergeant, John B., assignor.)						
Serpollet, Leon, Paris, France, assignor to La Société des Générateurs à Vaporisation Instantanée, (Système Leon Serpollet,) of France. Liquid-fuel burner	597,028	Jan. 11	996	235	82	210
Serrell, Harold. (See Ecaubert and Serrell.)						
Serrell, John A., Bayonne, and M. Leitch, Merchantville, N. J., assignors to Warren Webster & Company, of New Jersey. Thermostatic valve	600,653	Mar. 15	1869	427	82	1614
Serres, Léopold, Condat, France. Lamp for generating acetylene gas	599,198	Feb. 15	1915	453	82	198
Serve, Jean P., Lyons, France. Lubricating device for slide-valves	610,000	Aug. 30	3386	785	84	1373
Sessions, Henry H., Chicago, Ill., assignor to Standard Coupler Company, of New Jersey. Buffer equipment for railway-cars	605,521	June 14	840	196	83	1534
Sessions, Henry H., Chicago, Ill., assignor to Standard Coupler Company, of New Jersey. Center-bearing for railway-cars	605,522	June 14	843	196 197	83	1535
Setter, John J., Poplar Point, Canada. Machine for burning seeds of noxious weeds	610,612	Sept. 13	865	199	84	1623
Settle, Campbell T., San José, Cal. Reversible disk harrow	609,560	Aug. 23	2592	605	84	1205
Sévène, Henri, and E. D. Cahen, Paris, France. Match composition	614,350	Nov. 15	2006		85	1042
Severance, Adam W., Walla Walla, Wash. Self-feeder for threshing-machines	607,138	July 12	945	205	84	201
Severance, William E., Mount Auburn, Mass. Centering-tool	598,018	Jan. 25	2693	628	82	572
Severson, John K., Madison, Wis. Adjustable tool-holder	600,747	Mar. 15	2043	467	82	1648
Severson, Nellie L. (See Bean, Charles E., assignor.)						
Severy, Melvin L. (See Heath and Severy.)						
Sevette, Frederic G., Paris, France. Machine for shaping and planishing sheet-metal plates	612,279	Oct. 11	1219	291	85	246
Sevison, Luther J., Constantine, Mich. Shield for grinding or polishing machines	596,762	Jan. 4	548	125	82	105
Sewall, Charles H., Chicago, Ill. Underground conduit for electric conductors	603,745	May 10	904	201	83	792
Sewall, Charles H., Chicago, Ill. Underground conduit for electrical conductors	614,995	Nov. 29	3205	737	85	1299
Sewall, Charles H., Chicago, and H. E. Procunier, Oak Park, Ill. Terminal head for electrical conductors	598,328	Feb. 1	452	108	82	687
Sewall, Stephen A. (See Abbee, Sewall, and Bennwitz.)						
Sewall, Stephen A., and A. J. Bennwitz, Denver, Colo. Apparatus for operating rock-drills	600,934	Mar. 22	2353	534	82	1719
Seward, Edward A., and J. J. Joines, Columbus, Ga. Mechanical motor	596,915	Jan. 4	797	188	82	156
Seward, Edward C., Montclair, N. J., assignor to B. L. Armstrong, New London, Conn. Thread-holder	612,180	Oct. 11	1041	250	85	213
Seward, Oliver G., Minneapolis, Minn. Acetylene-gas lamp	603,746	May 10	906	201	83	793
Seward, Oliver G., Minneapolis, Minn. Acetylene-gas generator	603,747	May 10	909	201 202	83	793
Seward, William K., et al. (See Klose, Karl A., assignor.)						
Sewell, William H., Coleraine, Ireland. Vehicle-tire	598,443	Feb. 1	643	158	82	725
Sewell, William H., Port Stewart, Ireland. Pneumatic tire for cycles	609,839	Aug. 30	3092	721	84	1316
Sewell, William H., Coleraine, Ireland, assignor of one-half to J. Aiken, Cowdenbeath, Scotland. Pneumatic tire	603,710	May 10	847	188	83	781
Sexsmith, George R., Atchison, Kans. Churn	607,771	July 19	2265	478	84	474
Sexton, Charles C., Rowland, Pa. Carpentry or joinery	598,749	Feb. 8	1166	280	82	840
Sexton, John, Los Angeles, Cal. Car-fender	613,325	Nov. 1	185	40	85	652
Sexton, William A., Somerville, Mass. Cabinet oil-tank	616,591	Dec. 27	2556	591	85	1962
Seybold, Charles, assignor to Seybold Machine Company, Dayton, Ohio. Clamp-coupling device for paper-cutters	597,069	Jan. 11	1075	254	82	225
Seybold, Charles, assignor to Seybold Machine Company, Dayton, Ohio. Hand-clamp for paper-cutters	597,070	Jan. 11	1077	254	82	226
Seybold Machine Company. (See Seybold, Charles, assignor.)						
Seyffarth, Gustav, Philadelphia, Pa. Lubricator	603,997	May 10	1365	310 311	83	882
Seymour, Alfred, Detroit, Mich. Combined awning and boat-cover	600,272	Mar. 8	1219	277	82	1471
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Bending-machine	603,926	May 10	1243	282	83	857
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Punching-machine	608,484	Aug. 2	561	125	84	767
Seymour, Charles J., Brookline, and A. H. Macy, assignors of one-third to T. F. Boleman, Boston, Mass. Combined heater and radiator	598,444	Feb. 1	644	158	82	725
Seymour, Elisha, Chicago, Ill. Rotating cut-off valve	607,089	July 12	861	187	84	186
Seymour, James M., Jr., Newark, N. J. Exhauster	616,590	Dec. 27	2555	591	85	1962
Seymour, James M., Jr., Newark, N. J., assignor to Peter Henderson & Company, of New Jersey. Land-roller	606,687	July 5	93	20	84	21
Seymour, Oliver E., Jefferson City, Mo., assignor of one-half to J. H. Shepard, Dallas, Tex. Whip-socket	608,431	Aug. 2	476	107	84	750
Seymour, William S., assignor of one-half to A. J. Cohen, Philadelphia, Pa. Stick or rod for umbrellas or parasols	611,289	Sept. 27	2102	484	84	1900
Shaaber, Jacob, et al. (See Leightham, Joseph, assignor.)						
Shackleton, Fremont B., Erie, Kans. Carrier for bicycles	615,756	Dec. 13	983	229	85	1617
Shackleton, Joseph, Dayton, Ohio. Smoke-consumer	608,159	July 26	3004	646	84	637
Shadall, Charles E., Milwaukee, Wis., assignor to Frick Company, Waynesborough, Pa. Dash-pot for valve-gears	611,337	Sept. 27	2184	505	84	1915
Shadbolt, William O., New York, N. Y. Wagon	611,082	Sept. 20	1689	388	84	1801
Shade, John S. (See Shade, Robert W., assignor.)						
Shade, Robert W., assignor of one-half to J. S. Shade, Shippensburg, Pa. Paper holder and feeder for type-writing machines	615,502	Dec. 6	544	124	85	1517
Shadowless Radiator Manufacturing Company. (See Stenz and Westermann, assignors.)						
Shaeffer, Edmund M., assignor of one-half to A. H. Wilson, Harrisonburg, Va. Knock-down barrel	612,679	Oct. 18	1930	457	85	394
Shaff, Allen. (See George, Benjamin F., assignor.)						
Shaff, Martin V., Los Angeles, Cal. Photographic-background carrier	597,788	Jan. 25	2305	537	82	497
Shaffer, Benjamin J., Singer's Glen, Va. Tongue-support for harvesters	613,726	Nov. 8	906	208	85	809



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Shaffer, Daniel M. (See Cashin and Shaffer.)						
Shaffer, Eugene E. (See Francisco and Shaffer.)						
Shaffer, Homer J., Scott, Ind. Device for cutting iron	604,270	May 17	1915	428	83	1022
Shaffer, James S., Tuttle-town, Cal. Combined scissors and knife sharpener	611,369	Sept. 27	2249	520	84	1927
Shaffer, Richard M., assignor of one-third to W. A. Pleasants, Baltimore, Md. Sash-balance	612,367	Oct. 11	1374	332 333	85	275
Shaft, Grant D., St. Paul, and H. Hays; said Shaft assignor and said Hays assignor of one-fourth to C. G. Hawley and P. B. Crane, Minneapolis, Minn. Fare register and recorder	603,861	May 10	1132	255	83	836
Shaft, Henry S., assignor of one-half to J. J. Schiffer, Gloversville, N. Y. Sewing-machine gage	615,463	Dec. 6	461	108	85	1501
Shailer, George W., assignor of one-fourth to M. Cohen, Wellington, New Zealand. Fastener for bags, mail-bags, &c	599,113	Feb. 15	1779	422	82	975
Shain, Milo G., Lohrville, Iowa. Barber's shears	616,639	Dec. 27	2656	615	85	1981
Shallenberger, John W., Canal Fulton, assignor of one-half to E. H. Wenger, Burton City, Ohio. Mine trap-door	613,607	Nov. 1	695	160	85	749
Shallenberger, Mary W., executrix. (See Shallenberger, Oliver B.)						
Shallenberger, Oliver B., deceased, Rochester, Pa.; M. W. Shallenberger, executrix. Shunt for electric circuits	606,171	June 21	2100	482	83	1786
Shambaugh, Thomas, and J. R. McConnell, Arlington, Iowa. Pipe-holder	612,061	Oct. 11	838	205	85	174
Shambow, John. (See Ashby, Peter, assignor.)						
Shamp, George W., Buffalo, N. Y. Velocipede-bearing	616,205	Dec. 20	1833	423	85	1801
Shanahan, Stephen, Charleston, W. Va. Brace-holder	602,367	Apr. 12	1344	300	83	271
Shands, Oliver G. (See Flannigain, Edward, assignor.)						
Shank, Augustus W., assignor of one-half to W. Clark, Detroit, Mich. Oil-burner	608,009	July 26	2758	586	84	590
Shankland, Edward C., assignor to D. H. Burnham & Co., Chicago, Ill. Safety-deposit vault	597,694	Jan. 18	2131	498	82	447
Shankland, Edward C., assignor to D. H. Burnham & Co., Chicago, Ill. Safe or vault	615,503	Dec. 6	545	125	85	1518
Shanklin, H. A., <i>et al.</i> (See Cowles, Albert, assignor.)						
Shanklin, Weller, Sweet Springs, W. Va. Car-coupling	608,719	Aug. 9	986	227	84	869
Shanks, John S. D., and R. Kelly, Jr., Belfast, Ireland. Steam-boiler	611,083	Sept. 20	1692	389	84	1802
Shann, Montague H. C. and R. E. C., Shoreham, England. Bending apparatus for ship-frames	606,306	June 28	2371	548 549	83	1860
Shann, Richard E. C. (See Shann, Montague H. C. and R. E. C.)						
Shannon, Adam E., Findlay, Ohio. Tramway-switch	600,091	Mar. 1	851	196	82	1381
Shannon, Douglass, Fair Grove, Mich. Grindstone	611,946	Oct. 4	613	149	85	120
Shannon, Maurice W., Worcester, Mass. Bung	611,224	Sept. 20	1962	452	84	1852
Shannon, William C. (See Mullen and Shannon.)						
Shanton, Ira A., Mount Pleasant, Mich. Automatic music turner and holder	596,548	Jan. 4	154	35	82	32
Sharp, Albert P. (See Boorman, Sharp, and O'Neil.)						
Sharp, Albert P., <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Sharp, Archibald, London, England. Pulley	612,144	Oct. 11	977	236 628	85	201
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Grain-binder	598,019	Jan. 25	2694	629	82	572
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Sheaf-carrier for grain-binders	598,020	Jan. 25	2696	629 630	82	572
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Combination-harrow	598,820	Feb. 8	1270	308	82	861
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	601,760	Apr. 5	265	52	83	51
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	601,761	Apr. 5	269	52, 53	83	51
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Disk harrow	609,469	Aug. 23	2429	568 659	84	1174
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Knot-tying device for grain-binders	609,522	Aug. 23	2524	590 591	84	1193
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Bar-lifting mechanism for mowing-machines	611,978	Oct. 4	664	161 162	85	130
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	614,061	Nov. 8	1447	332 333	85	915
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	614,062	Nov. 8	1449	333 334	85	915
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	614,063	Nov. 8	1453	334	85	916
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	614,064	Nov. 8	1455	334 335	85	917
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Bundle-carrier for corn-harvesters	614,065	Nov. 8	1461	335 336	85	918
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	614,066	Nov. 8	1463	336	85	919
Sharp, Charles S., Auburn, assignor, by mesne assignments, to National Harrow Company, Utica, N. Y. Spring-tooth harrow	604,271	May 17	1916	429	83	1022
Sharp, John C., Delavan, Wis. Stump-splitting device	608,346	Aug. 2	325	72	84	721
Sharp, Joseph W., Jr., and J. W. Grantland, assignors to Haines, Jones & Cadberry, Philadelphia, Pa. Water-closet	605,823	June 14	1404	322	83	1638
Sharp, Joshua H., Madisonville, Tex. Automatic boiler-feeder	607,286	July 12	1228	262	84	253
Sharp, Kelly N., Harmony Grove, Ga. Plow	613,727	Nov. 8	907	208	85	809
Sharp, Samuel H., Leeds, England. Fabric-printing machine	599,948	Mar. 1	510	115 116	82	1310
Sharp, Thomas B., Birmingham, England. Apparatus for manufacturing metal tubes	600,681	Mar. 15	1933	440	82	1626
Sharp, Thomas B., and F. Billing, Birmingham, England. Machine for manufacturing metal tubes	602,878	Apr. 26	2227	504	83	468
Sharpe, George C., Columbus, Ohio. Automatic derailer	599,362	Feb. 22	2232	530	82	1082
Sharpe, John E., Oneida, N. Y. Puzzle	615,413	Dec. 6	373	89	85	1485
Sharpe, Joseph, Paterson, N. J. Brick-machine	607,488	July 19	1776	369 370	84	384
Sharpe, Joseph K., Jr., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Fan for pneumatic straw-stackers	605,925	June 21	1628	374	83	1700
Sharpless, William E., Fall River, Mass. Spinning-frame	611,338	Sept. 27	2185	505	84	1915
Sharpless, John O., Fairhaven, Wash. Shoe-protector	601,529	Mar. 29	3391	769	82	1947
Sharretts, David E., assignor of one-half to C. E. Kloeber, Jr., Washington, D. C. Focus-ing attachment for cameras	606,394	June 28	2534	587 588	83	1890
Shartle, John M., Middletown, Ohio. Oyster-pail	610,001	Aug. 30	3338	785	84	1373
Shattler, Samuel C., <i>et al.</i> (See Ricke, George H., assignor.)						
Shaver, S. W., <i>et al.</i> (See Gibbs, James E., assignor.)						
Shaw, A. E. (See Rohlin, John, assignor.)						
Shaw, A. B., Medford, Mass. Pneumatic tire	599,802	Mar. 1	216	53	82	1256
Shaw, Albert H., <i>et al.</i> (See Bean and Watson, assignors.)						
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Electric-ally-operated hoisting machinery	600,092	Mar. 1	853	196 197	82	1381



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Shaw, Arthur E., and W. G. Lees, Philadelphia, Pa., assignors to Pennsylvania Globe Gas Light Company, of Pennsylvania. Street-lamp	597,439	Jan. 18	1704	395	82	364
Shaw, Campbell B., St. Louis, Mo. Automatic valve	613,891	Nov. 8	1191	272	85	864
Shaw, Charles J., Owosso, Mich. Sleigh-knee	609,470	Aug. 23	2430	569	84	1174
Shaw, Charles J., Owosso, assignor to W. H. Shaw, Duffield, Mich. Standard	604,796	May 31	2879	658	83	1243
Shaw, Charles M., Leadville, Colo. Support for ironing-boards	615,504	Dec. 6	547	125	85	1518
Shaw, Edgar, Swampscott, Mass. Dish-cleaner	603,580	May 3	608	135	83	719
Shaw, Edmund D. (See Case and Shaw.)						
Shaw, Edwin F. (See Smith and Shaw.)						
Shaw Electric Crane Company. (See Shaw, Alton J., assignor.)						
Shaw, Elver H., assignor of one-half to W. A. Fraser, Sedalia, Mo. Combination-tool	606,395	June 28	2536	588	83	1891
Shaw, Harvey W. (See Atkinson, Edward E., assignor.)						
Shaw, Henry F., Boston, assignor of two-thirds to A. A. Lincoln, Quincy, and R. F. Alvord, Newton, Mass. Railway-car brake-shoe slack-adjuster	599,662	Feb. 22	2818	655	82	1197
Shaw, Hugh R., Rosseau, Canada. Construction and propulsion of boats	615,757	Dec. 13	984	229 230	85	1618
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Knob attachment	599,363	Feb. 22	2233	531	82	1082
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Knob attachment	606,590	June 28	2890	669	83	1961
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock	611,979	Oct. 4	666	162	85	130
Shaw, L. M. (See De Camp, Joseph W., assignor.)						
Shaw, Levi. (See Comstock, Charles M., assignor.)						
Shaw, Nelson, Housatonic, Mass. Door-check	609,214	Aug. 16	1958	464	84	1064
Shaw, Noah, Eau Claire, Wis. Sawmill-carriage	610,565	Sept. 13	790	180 181	84	1606
Shaw, Noah, Eau Claire, Wis. Drying sand molds	615,109	Nov. 29	3420	785	85	1338
Shaw, Otis M. (See Hanson, Winfield E., assignor.)						
Shaw, W. H. (See Shaw, Charles J., assignor.)						
Shaw, Walter, trustee. (See Chase, Frank, assignor.)						
Shaw, Wilber S., Dallas, assignor of one-half to W. A. Findley, Waco, Tex. Snuff-package	597,623	Jan. 18	2007	468	82	425
Shaw, William C., Erie, Pa. Collar turning and ironing machine	608,720	Aug. 9	986	227	84	869
Shaw, William C., assignor of three-fourths to P. W. Hawkins, White Plains, and C. W. Jenkins, Baltimore, Md. Car-coupling	615,916	Dec. 13	1256	294	85	1670
Shaw, William G., Buffalo, assignor to J. W. Lincoln and G. A. Lamb, New York, N. Y. Register	597,695	Jan. 18	2134	499	82	447
Shaw, William S., Bracebridge, Canada. Leather-dressing machinery	610,613	Sept. 13	868	199	84	1624
Shawver, Harvey E., Harvey, Ill. Bench-stop	609,302	Aug. 16	2132	505	84	1099
Shay, Benjamin F. (See Shay, William H., assignor.)						
Shay, William H., Newburg, assignor of one-half to B. F. Shay, Poughkeepsie, N. Y. Valve	604,846	May 31	2958	677	83	1257
Shea, Francis A., et al., administrators. (See Reece, John.)						
Shea, Patrick, Boston, Mass. Block or smoothing plane	603,832	May 10	1077	241	83	825
Sheather, Charles, London, England. Horseshoe-pad	607,196	July 12	1050	227	84	219
Sheboygan Register Company. (See Mallmann, James, assignor.)						
Shedd, J. Herbert. (See Teehan, John F., assignor.)						
Shedin, Claës G., Somerville, Mass. Milling-machine	615,213	Dec. 6	158	42	85	1444
Shedlock, Alfred, Jersey City, N. J. Car-brake	601,450	Mar. 29	3259	737	82	1919
Shedlock, William, London, England. Salt-pan	611,152	Sept. 20	1824	420	84	1828
Sheehan, John, Sing Sing, N. Y. Horseshoe-pad	609,708	Aug. 23	2873	671	84	1259
Sheehy, James J., et al. (See Lynch and Hough, assignors.)						
Sheeler, Emory C., Ilion, N. Y. Stove-leg attachment	600,452	Mar. 8	1506	344	82	1525
Sheer, Walter B., assignor to H. B. Dines and J. C. Dussair, Quincy, Ill. Box-fastener	609,913	Aug. 30	3214	753	84	1340
Sheerin, Thomas E., Sedalia, Mo. Car-signal	609,914	Aug. 30	3216	753	84	1340
Sheets, W. L., et al. (See Gearhart, Lewis, assignor.)						
Sheffield Car Company. (See Ewart, John, assignor.)						
Sheffield Car Company. (See Henderson, James, assignor.)						
Shehan, William E. (See Hill and Shehan.)						
Sheibley, Jacob E., Harrisburg, Pa., assignor, by mesne assignments, to National Harrow Company, of New Jersey. Spring-tooth harrow	604,272	May 17	1918	429	83	1022
Shek, Frank P., Brooklyn, N. Y. Jumping toy	606,900	July 5	477	103	84	95
Shelby Electric Company. (See Fish, John C., assignor.)						
Shelby Steel Tube Company. (See Charnock, John A., assignor.)						
Shelby Steel Tube Company. (See Stiefel, Ralph C., assignor.)						
Sheldon, Bernard, Brooklyn, N. Y. Machine for cutting and stamping cigars	597,593	Jan. 18	1961	456	82	417
Sheldon, Charles R., assignor to Celluloid Goggle Company, Kasson, Minn. Eye-shield	611,396	Sept. 27	2311	533	84	1938
Sheldon, Cora F., Hillsdale, Mich. Sewing-machine attachment	600,895	Mar. 22	2289	522	82	1707
Sheldon, Edward P., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Folding and cutting mechanism	604,847	May 31	2959	677 678 679	83	1258
Sheldon, Edward P., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Paper feeding and folding machine	612,957	Oct. 25	2433	580	85	510
Sheldon, George E., Chili Station, N. Y. Wire-fence spacer	609,523	Aug. 23	2526	591	84	1193
Sheldon, Samuel, Paterson, N. J. Jacquard-machine for looms	600,807	Mar. 15	2137	488	82	1665
Shelhamer, Frank L., and S. C. Garner, assignors of one-third to Jeanesville Iron Works Company, Jeanesville, Pa. Tool-holder	615,110	Nov. 29	3423	785	85	1338
Shelk, John H., Shelbyville, Ind. Shoe-button cleaner	607,090	July 12	862	187	84	186
Shell, Leonidas R., assignor to one-half to J. H. Middendorf, Richmond, Va. Track-cleaner	615,580	Dec. 6	676	155	85	1544
Shellaberger, Edward F., De Kalb, Ill. Wire-fence-machine attachment	599,976	Mar. 1	553	127 128	82	1317
Shellaberger, Edward F., De Kalb, Ill. Shifting mechanism for weaving-machines	613,398	Nov. 1	338	77 78 79	85	680
Shelley, James F. (See Parks and Shelley.)						
Shellhouse, Edward S., assignor of one-half to W. Carothers, Carey, Ohio. Crate	612,680	Oct. 18	1930	457	85	394
Shelly, Thomas E. (See McDonough and Shelly.)						
Shelmire, Warren R., Avondale, Pa. Transom-lifter	610,499	Sept. 6	678	152	84	1569
Shelton, Edward. (See Granger, Horace D., assignor.)						
Shelton, John J., assignor of one-half to H. H. Isenberg, Tea, Mo. Automatic self-setting animal-trap	609,561	Aug. 23	2593	606	84	1205
Shenberger, Andrew J., Lancaster, Pa. Detonating toy	614,182	Nov. 15	1668	383	85	978
Shepard, Charles H., Plainfield, N. J. Bridle-bit	612,440	Oct. 18	1498	361	85	312
Shepard, Charles H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writer scale	614,901	Nov. 29	3007	689	85	1259
Shepard, Charles S., and E. D. Jefferson, Lowell, Mass.; said Shepard assignor to said Jefferson. Vomiting-keir	612,874	Oct. 25	2308	550	85	485



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Shepard & Co., Sidney. (See Foster and Ferber, assignors.)						
Shepard, Frank P. (See Dake, Shepard, and Peck.)						
Shepard, Harvey G., assignor to H. G. Shepard & Sons, New Haven, Conn. Handle-bar for cycles	605,752	June 14	1257	290	83	1612
Shepard, James H. (See Seymour, Oliver E., assignor.)						
Shepard, John, Aptos, Cal. Automatic stock-feeding device	612,917	Oct. 25	2371	565	85	497
Shepard, Leander, assignor of one-half to R. W. Eaton, Brunswick, Me. Lubricating device for spinning-machines	597,331	Jan. 11	1503	350	82	309
Shepard, Mary M., Darlington, S. C. Bathing-suit	601,781	Apr. 5	308	61	83	59
Shepard, Orry M. (See Coates and Shepard.)						
Shepard & Sons, H. G. (See Shepard, Harvey G., assignor.)						
Shepard, W. H., et al. (See Cockburn, George G., assignor.)						
Shepard, Wendell L., Waterbury, Conn. Cyclometer attachment for bicycles	612,617	Oct. 18	1825	433	85	374
Shepherd, Charles H., New York, N. Y. Lock for flushing-valves	608,485	Aug. 2	562	126	84	767
Shepherd, Frank J., Minneapolis, Minn. Sales-slip book	613,047	Oct. 25	2572	610	85	539
Shepherd, George B., Grayson, Ky. Carpet or rug fastener	605,978	June 21	1737	399	83	1720
Shepherd, George B., Grayson, Ky. Life-preserver	616,439	Dec. 20	2270	530	85	1889
Shepherd, Harry, Minneapolis, Minn. Ballast-car	616,263	Dec. 20	1954	455	85	1825
Shepherd, James, Wellington, New Zealand. Spark-arrester	614,580	Nov. 22	2414	552	85	1131
Shepherd, John C., Tilsonburg, Canada. Vehicle-spring	598,445	Feb. 1	645	159	82	725
Shepherd, Robert B., New York, N. Y. Brush	601,405	Mar. 29	3183	718	82	1905
Shepherd, Russel M., Carbondale, Pa. Puzzle	614,770	Nov. 22	2759	630	85	1196
Sheppard, Charles S., West Pittston, Pa. Luggage-carrier	600,238	Mar. 8	1152	262	82	1460
Sheppard, John M., et al. (See Guarrant, George M., assignor.)						
Sheppard, John P. (See Steelman, Lewis, assignor.)						
Sheppard, Joseph W., assignor to Mississippi Glass Company, St. Louis, Mo. Washboard	602,479	Apr. 19	1539	350	83	322
Shepperd, John W., Chariton, Iowa. Doubletree	602,478	Apr. 19	1538	349	83	322
Sherar, Cora L. W. (See Lane, Sampson W., assignor.)						
Sherdan, Phillip. (See Conwell, Tinklepaugh, and Sheridan.)						
Sheridan, Edward, Philadelphia, Pa. Cooling apparatus for air-tanks	609,053	Aug. 16	1656	395	84	1008
Sheridan, Edward, Philadelphia, Pa. Tank for pressure apparatus	610,333	Sept. 6	373	79	84	1512
Sheridan, Martin S. (See Barron, Logan, and Sheridan.)						
Sheridan, Philip. (See Dixon, John C., assignor.)						
Sheriff, James E., assignor to H. M. Munsell and J. H. Brown, New York, N. Y. Tubular body	607,594	July 19	1969	408	84	419
Sherk, Truman C. O., Buffalo, N. Y. Smoke-bell	605,234	June 7	328	76	83	1413
Sherman, Antone I., assignor of one-half to A. K. Demere, Punta Gorda, Fla. Ice-steamboat	611,518	Sept. 27	2529	584	84	1979
Sherman, Betsey, Toledo, Wash. Combined book-rest and fan	599,574	Feb. 22	2642	619	82	1161
Sherman, Charles, Yarmouth, Canada. Flower-pot	599,263	Feb. 15	2020	479	82	1019
Sherman, George H., assignor of one-half to P. J. Sherman, Detroit, Mich. Hydrocarbon-burner	614,030	Nov. 8	1401	321	85	906
Sherman, Howard B., assignor to H. B. Sherman Manufacturing Company, Battle Creek, Mich. Pipe-coupling	601,591	Mar. 29	3479	793	82	1965
Sherman, John A., Worcester, Mass. Mechanism for folding and sealing envelopes	598,716	Feb. 8	1118	269 270	82	831
Sherman, Peter J. (See Sherman, George H., assignor.)						
Sherrer, Philip, Cleveland, Ohio. Cask-pitching apparatus	606,396	June 28	2537	588	83	1891
Sherrill, C. R., et al. (See Talley, William H., assignor.)						
Sherrill, James M., et al. (See Sherrill, John G., assignor.)						
Sherrill, John G., assignor to himself, J. M. Sherrill, and A. Jamieson, Gordon, Tex. Car-coupling	612,280	Oct. 11	1220	291 292	85	246
Sherrin, John V., Ramsgate, assignor to Britannia Motor Carriage Company, Limited, London, England. Dynamo and electric motor for driving vehicles	613,894	Nov. 8	1196	273	85	865
Sherry, John W., Crompton, assignor to Crompton Company, Providence, R. I. Loom	605,019	May 31	3245	746	83	1313
Sherwood, Alexander B., assignor of one-half to Z. S. Holbrook, Chicago, Ill. Printing representations of woven fabrics	609,748	Aug. 23	2928	684 685	84	1270
Sherwood, Alfred, Topeka, Kans. Electrically-operated brush	600,383	Mar. 8	1336	317	82	1504
Sherwood, George R., Kearney, Nebr. Machine for removing pith from stalks	601,592	Mar. 29	3480	793 794	82	1965
Sherwood, Thomas, Belchertown, Mass. Railway-track securer	610,204	Sept. 6	96	20	84	1458
Sherwood, William E., Oneida, N. Y. Antirattling thill-coupling	606,307	June 28	2375	549	83	1861
Sherwood, William E., assignor of two-thirds to W. E. Douglas and J. H. Brown, Oneida, N. Y. Thill-coupling	607,772	July 19	2266	478	84	475
Shetterly, Charles J., Ann Arbor, Mich. Thill-coupling	613,849	Nov. 8	1114	253	85	849
Shettlworth, Frederick W., assignor of one-half to E. I. Bell, Portland, Conn. Stone-sawing machine	598,446	Feb. 1	647	159	82	726
Shevlin, George F. (See Baker, Shevlin, and Baker.)						
Shibe, Benjamin F., Bala, Pa. Base-ball glove	613,945	Nov. 8	1273	288	85	879
Shickle, Harrison & Howard Iron Company. (See Gallagher, Thomas M., assignor.)						
Shields, David. (See Griswold and Shields.)						
Shields, Edgar A., New York, N. Y. Puzzle	605,191	June 7	239	57	83	1396
Shields, Edgar A., New York, N. Y. Crayon or pencil holder	615,581	Dec. 6	677	156	85	1544
Shields, Francis W., L. A. Spinelli, and C. R. Martin, San José, Cal. Automatic pressure-equalizing beer-faucet	598,579	Feb. 8	876	210	82	787
Shields, Henry C., Troy, N. Y. Apparatus for manufacturing gas	604,427	May 24	2215	496	83	1100
Shields, James A. (See Smith, Benjamin F., assignor.)						
Shields, Joseph W. (See Bartell and Shields.)						
Shields, Nathaniel J., Stevenson, N. D. Spring-bed	608,232	Aug. 2	113	28	84	677
Shields, William C., et al. (See Lewis, Edward D., assignor.)						
Shields, William E., assignor to W. T. Barker and L. W. Feighner, Nashville, Mich. Clothes-drier	604,428	May 24	2218	496	83	1100
Shiels, Michael J., Westfield, N. J. Rheostat	607,608	July 19	1988	413	84	422
Shigley, Sara B., Yellow Springs, Ohio. Interchangeable hoe and rake	612,125	Oct. 11	951	230	85	196
Shiley, William F., Philadelphia, Pa. Gravity-fan furnace	596,916	Jan. 4	799	189	82	156
Shilling, Frank F. (See Lehmann, Adolph, assignor.)						
Shillito, Stewart, et al. (See Crain, Sidney I., assignor.)						
Shimer, Elmer S., Milton, Pa. Type-writing machine	616,023	Dec. 13	1465	342	85	1711
Shimer, Samuel J., Milton, Pa. Gage for cutter-knives	602,778	Apr. 19	2048	463	83	419
Shimer, Samuel J., Milton, Pa. Cutter-head	603,976	May 10	1316	302	83	872
Shimer, Samuel J., Milton, Pa. Cutter-head	607,709	July 19	2168	456	84	455
Shimer, Samuel J., Milton, Pa. Cutter-head	614,771	Nov. 22	2760	630 631	85	1196
Shinn, John, Philadelphia, Pa. Switch-heddle	614,504	Nov. 22	2292	525	85	1108
Shipley, Alfred J., assignor to Seovill Manufacturing Company, Waterbury, Conn. Tack-fastened button	606,881	July 5	453	97	84	89



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Shipley, Alfred J., and T. R. Hyde, Jr., assignors to Scovill Manufacturing Company, Waterbury, Conn. Tack-fastened button.....	598,021	Jan. 25	2698	630	82	573
Shipley, Alfred J., and T. R. Hyde, Jr., assignors to Scovill Manufacturing Company, Waterbury, Conn. Tack-fastened button.....	598,022	Jan. 25	2699	630	82	573
Shipley, Caleb W., administrator. (See Shipley, Morris S.)						
Shipley, Morris S., deceased, Cincinnati, Ohio; C. W. Shipley, administrator. Mechanism for operating vehicle-doors.....	613,650	Nov. 1	756	174	85	761
Shipley, Thomas, assignor to Frick Company, Waynesborough, Pa. Freezing-tank for ice-machines.....	616,640	Dec. 27	2657	615 616	85	1982
Shipman, Charles H., New York, N. Y. Elevated carrier.....	615,368	Dec. 6	275	63, 64	85	1466
Shipman, Frederick W., Toronto, Canada. Portable theater.....	597,890	Jan. 25	2469	577	82	529
Shipman, Madison D., <i>et al.</i> (See Pringle, Eugene, assignor.)						
Shipman, Samuel H., Waxahachie, Tex. Plow-carriage.....	613,326	Nov. 1	186	41	85	652
Shipman, Samuel H., Waxahachie, Tex. Single-delivery match-safe.....	613,327	Nov. 1	188	41	85	653
Shippard, James A., Washington, D. C. Detonating toy.....	596,549	Jan. 4	155	35	82	32
Shires, Michael, Spring Mills, and J. Q. A. Kennedy, assignors to Johnstown Fire Escape Company, Limited, Johnstown, Pa. Machine for making fire-escape ladders.....	604,797	May 31	2880	658 659	83	1243
Shirey, Frank L., Layton, Pa. Nail-holder for hatchets.....	613,022	Oct. 25	2535	603	85	531
Shirley, David D. (See Duncan, Andrew M., assignor.)						
Shirley, William, Coventry, England. Dress-guard attachment.....	606,492	June 28	2706	623	83	1926
Shirray, William, Detroit, Mich. Sheet-metal handle for shovels.....	601,987	Apr. 5	698	148	83	132
Shively, Martin, Rising Sun, Ohio. Method of and apparatus for purifying crude oils.....	613,728	Nov. 8	909	208	85	809
Shmiltz, Edmund, München-Gladbach, Germany. Pulley.....	597,531	Jan. 18	1855	430	82	395
Shnable, Emile R., Chicago, Ill. Derrick.....	600,093	Mar. 1	856	197	82	1382
Shoales, William E., Plymouth, N. Y. Evaporating pan.....	613,892	Nov. 8	1193	272	85	864
Shoemaker, Charles F., Allegheny, Pa. Scroll-machine.....	613,428	Nov. 1	397	91	85	692
Shoemaker, Clement W. (See Lindemeyr, Philip, assignor.)						
Shoemaker, Clement W., <i>et al.</i> (See Hettinger and Kincaid, assignors.)						
Shoemaker, Clinton C. and G. E., Freeport, Ill. Incubator.....	601,173	Mar. 22	2743	630 631	82	1794
Shoemaker, George E. (See Shoemaker, Clinton C. and G. E.)						
Shoemaker, Lockert N., Greenfield, Ohio. Game apparatus.....	601,287	Mar. 29	2980	673 674	82	1867
Shoemaker, Robert E., <i>et al.</i> (See Hettinger and Kincaid, assignors.)						
Shoenberger, George, Long Beach, Cal. Harness-buckle.....	600,623	Mar. 15	1825	418	82	1605
Shoff, Oscar P. (See Parsons, Edgar B., assignor.)						
Sholder, Louis H., Cleveland, Ohio. Combined auger and cutter.....	605,614	June 14	1015	234	83	1566
Sholl, David V., Toledo, Ohio. Friction-clutch.....	600,178	Mar. 8	1057	239	82	1441
Sholto-Douglas. (See Wambsganss, Albert, assignor.)						
Shomberg, William T., <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Shoale, Charles L., Tuscola, Ill. Hand lawn-mower.....	609,709	Aug. 23	2874	671 672	84	1259
Shope, William, Wood Hill, Mo. Tire-tightener.....	609,840	Aug. 30	3093	721	84	1317
Shopp, Benjamin R., Jr., Jersey City, N. J. Trolley-arm.....	612,062	Oct. 11	840	205	85	174
Shoptaugh, Curtis A., San Francisco, Cal. Apparatus for inflating pneumatic tires.....	611,339	Sept. 27	2186	506	84	1915
Short, Bertrand H., Vancouver, Canada. Soldering-machine.....	602,368	Apr. 12	1345	300	83	271
Short, John F., California, Mo. Photographic-plate holder.....	600,179	Mar. 8	1058	239	82	1441
Short, Robert L., assignor to Gartland Foundry Company, Cleveland, Ohio. Furnace.....	605,753	June 14	1259	290 291	83	1612
Short, Samuel A., Altoona, Pa. Rail-cleaning device.....	611,290	Sept. 27	2104	484	84	1900
Short, Sidney H., Cleveland, Ohio. Rheostat.....	599,803	Mar. 1	219	53	82	1256
Short, Sidney H., Cleveland, Ohio. Method of and means for controlling electric motors.....	599,804	Mar. 1	222	53, 54	82	1257
Short, Sidney H., Cleveland, Ohio. Method of and means for controlling electric motors.....	599,805	Mar. 1	229	54, 55	82	1258
Short, Sidney H., Cleveland, Ohio. Method of and means for controlling electric motors.....	599,806	Mar. 1	237	55	82	1259
Short, Sidney H., Cleveland, Ohio. Pneumatic controlling mechanism for electric-railway cars.....	599,807	Mar. 1	244	56, 57	82	1259
Short, Sidney H., Cleveland, Ohio. Motor-casing.....	599,918	Mar. 1	462	103	82	1301
Short, Sidney H., Cleveland, Ohio. Pneumatic controlling system for electric cars.....	600,896	Mar. 22	2290	522	82	1707
Short, Sidney H., Cleveland, Ohio. Solenoid blow-out for dispersing arcs formed in breaking electric circuits.....	601,717	Apr. 5	184	36	83	37
Short, Sidney H., Cleveland, Ohio. Means for suspending motors on vehicles.....	603,927	May 10	1244	282 283	83	858
Short, Sidney H., Cleveland, Ohio. Trolley for electric railways.....	604,196	May 17	1783	402	83	997
Short, Sidney H., Cleveland, Ohio. Mounting for third rails.....	605,260	June 7	393	89	83	1426
Short, Sidney H., Cleveland, Ohio. Third rail for electric railways.....	605,261	June 7	394	89	83	1427
Short, Sidney H., Cleveland, Ohio. Field-magnet for electric machines.....	607,609	July 19	1990	413	84	422
Short, Sidney H., Cleveland, Ohio. Electric-railway system.....	607,610	July 19	1992	413	84	422
Short, Sidney H., Cleveland, Ohio. Electric-railway system.....	607,611	July 19	1995	414	84	423
Short, Sidney H., Cleveland, Ohio. Motor-mounting for electric cars.....	611,461	Sept. 27	2429	557	84	1960
Short, Sidney H., Cleveland, Ohio. Car-truck equipment.....	616,264	Dec. 20	1955	455	85	1825
Short, Sidney H., Cleveland, Ohio. Field-magnet for electric machines.....	616,265	Dec. 20	1956	455	85	1825
Shortle, James S., Chicago, Ill. Siphon-head.....	597,834	Jan. 25	2382	555	82	513
Shortliff, Thomas. (See Willerton and Shortliff.)						
Shortt, John H., Rosebank, N. Y. Puzzle.....	596,633	Jan. 4	311	68	82	62
Shotts, Christian G., Jr., and W. K. Webb, Philadelphia, Pa. Hydrant-box.....	613,914	Nov. 8	1219	278	85	869
Shotwell, Eli L., and J. Brims, David City, Nebr. Wire-reel.....	603,796	May 10	998	223	83	811
Shoup, Samuel, Wilmington, Del. Check-slip.....	600,094	Mar. 1	857	197 198	82	1382
Shove, Cornelius B., <i>et al.</i> (See Carlson, Carl, assignor.)						
Shown, Silas, Glenville, Ky. Wire-stretcher.....	614,581	Nov. 22	2415	552	85	1131
Shreeve, Herbert E., assignor to American Bell Telephone Company, Boston, Mass. Telephone-transmitter.....	602,174	Apr. 12	1023	224	83	206
Shreeve, Walter, Elm Creek, Nebr. Filtering device.....	616,364	Dec. 20	2138	498	85	1863
Shreffler, Samuel, Joliet, Ill. Gate-hanger.....	598,023	Jan. 25	2701	630	82	573
Shrewsbury, Charles P., London, and J. L. Dobell, Modbury, England. Electric battery.....	599,405	Feb. 22	2319	547 548 549	82	1100
Shrout, Thomas M., Hillsborough, Ky. Vehicle-wheel.....	610,096	Aug. 30	3536	820	84	1404
Shryock, Walter R., Moberly, Mo. Air pillow, mattress, cushion, &c.....	613,328	Nov. 1	190	41	85	653
Shryock, William T., Allegheny, Pa. Chainless bicycle.....	607,710	July 19	2169	456	84	456
Shryock, William T., Allegheny, Pa. Trolley-stand.....	612,875	Oct. 25	2312	550	85	486
S Stuart, Henry. (See Thompson, Oron B., assignor.)						
Shufflebarger, Marion N., Bristol, Tenn. Automatic switch.....	599,808	Mar. 1	253	57	82	1261
Shuler, Elmer E., Havelock, Nebr. Acetylene-gas generator.....	605,926	June 21	1629	374	83	1700
Shuler, Frederick H. (See Griffin and Shuler.)						
Shuler, William A., Arcanum, Ohio. Vehicle-tire.....	602,038	Apr. 5	779	169	83	147



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Shulin, Neal P., Butte, Mont. Lawn-mower .....	605,927	June 21	1631	375	83	1701
Shults, Nicholas R., Lake City, Mich. Locking-bolt .....	597,748	Jan. 25	2220	517	82	482
Shultz, Anthony B., North Baltimore, Ohio. Folding or collapsible table .....	609,592	Aug. 23	2648	619	84	1216
Shultz, Chauncy D., <i>et al.</i> (See Jenks, Albert H., assignor.) .....						
Shultz, Richard, Davis, W. Va. Wheel and track brake for railway-cars .....	615,917	Dec. 13	1259	294 295	85	1670
Shuman, Frank, Philadelphia, Pa. Process of and machine for embedding wire in glass .....	605,754	June 14	1261	291	83	1613
Shurter, Justin, Rosendale, N. Y. Combined thill-support and antirattler .....	603,776	May 10	960	215	83	803
Shurtleff, Asahel M. (See Helmboldt, Henry F., assignor.) .....						
Shurtleff, Asahel M., Boston, Mass. Nipple-holder and support therefor .....	597,513	Jan. 18	1834	424	82	391
Shuster, Franklin B., New Haven, Conn. Cutting-off mechanism .....	601,593	Mar. 29	3483	794	82	1966
Shuster, Franklin B., New Haven, Conn. Drilling and tapping machine for door-knob spindles .....	602,272	Apr. 12	1183	260	83	238
Shuster, Franklin B., New Haven, Conn. Sheet-metal straightening and cutting-off ma- chine .....	602,273	Apr. 12	1186	260 261	83	238
Shuster, Franklin B., New Haven, Conn. Device for metal straightening and cutting-off machines .....	605,928	June 21	1633	375 376	83	1701
Shute, Peter W. (See Bailey, Benjamin F., assignor.) .....						
Shute, Samuel L., <i>et al.</i> (See Werner, Ernest E., assignor.) .....						
Shute, William R. (See Loudon and Shute.) .....						
Shutt, William M., North Washington, Pa. Checking device .....	608,920	Aug. 9	1372	324	84	941
Shutterly, Marion E., Mount Pleasant, Pa. Watch-dial fastener .....	599,640	Feb. 22	2777	646	82	1189
Shutz, John A., Richmond, Ind. Wire-fence twister .....	598,162	Feb. 1	150	35	82	631
Sibley, Albert P., South Bend, Ind. Automatic stop for self-feed drilling-machines .....	600,598	Mar. 15	1791	410	82	1599
Sibley, Clarence C., New York, N. Y. Illuminated sign .....	609,915	Aug. 30	3217	753 754	84	1341
Sickels, Girard. (See Abendroth and Sickels.) .....						
Siddall, Frederick F., Chicago, Ill. Automatic safety-coupling .....	601,483	Mar. 29	3310	749	82	1930
Sidway, Henry T. (See Grotenhuis and Sidway.) .....						
Sidwell, Arthur, Waltham, assignor to W. Measure, Needham, Mass. Bicycle-pedal .....	615,505	Dec. 6	549	125	85	1518
Sieben, Henry, Kansas City, Mo. Grease-trap for sinks, baths, &c .....	599,663	Feb. 22	2820	655	82	1197
Sieben, Henry, Chicago, Ill. Furnace for steam-boilers .....	613,785	Nov. 8	1000	229	85	827
Sieber, John H., assignor of one-half to W. A. Reichert and L. P. Egard, Henderson, Ky. Filter .....	614,351	Nov. 15	2007	463	85	1042
Sieber & Trussell Manufacturing Co. (See Trussell, Emory A., assignor.) .....						
Siebert, Carl T., Pittsburg, Pa. Fly-screen .....	599,641	Feb. 22	2778	646	82	1189
Siebold, Karl, Gadderbaum, Germany. Facing for walls .....	600,897	Mar. 22	2292	523	82	1708
Siebs, Jovinianus N. F., Middle Village, N. Y. Guard-rail .....	610,665	Sept. 13	946	219	84	1640
Siefkes, John L., West Point, assignor to G. W. Beatty, San Francisco, Cal. Clothes-drier .....	599,871	Mar. 1	378	85	82	1284
Siegel, Andrew, assignor to Siegel Labeling Machine Company, Boston, Mass. Bottle- labeling machine .....	614,772	Nov. 22	2762	631	85	1197
Siegel, Frederick L., Atlanta, Ga. Bottle-stopper .....	615,639	Dec. 6	784	181	85	1568
Siegel, Joseph, Detroit, Mich. Corset .....	616,150	Dec. 20	1729	401	85	1779
Siegel Labeling Machine Company. (See Beauregard and Gooding, assignors.) .....						
Siegel Labeling Machine Company. (See Siegel, Andrew, assignor.) .....						
Siegert, Hermann E. O., Murowana-Goslin, Germany. Fire-grate .....	600,970	Mar. 22	2404	548 549	82	1729
Siegfried, Louis, Easton, Pa. Press-board holder .....	602,708	Apr. 19	1042	441	83	398
Siegrist, John H., Jr., St. Louis, Mo. Lubricator .....	614,902	Nov. 29	3008	690	85	1259
Siegsfeld, Rudolph M. W. H. von, Schöneberg, Germany. Air-balloon .....	612,996	Oct. 25	2495	594	85	523
Sielke, Leo. (See Eschenbach and Sielke.) .....						
Siemens, Alexander, assignor to Siemens Brothers & Co., Limited, London, England. Electromotor for electrically-propelled vehicles .....	608,137	July 26	2961	635	84	630
Siemens Brothers & Company. (See Holmes, Ernest, assignor.) .....						
Siemens Brothers & Company. (See Lauckert, Eduard F. H. H., assignor.) .....						
Siemens Brothers & Company. (See Siemens, Alexander, assignor.) .....						
Siemens Brothers & Company. (See Stopher, Arthur J., assignor.) .....						
Siemens, Ernst W. von, deceased; F. W. Whitridge, administrator, New York, N. Y. Method of and apparatus for extracting gold from its ores .....	601,068	Mar. 22	2574	587	82	1762
Siemens, Friedrich, Dresden, Germany. Gas-stove .....	597,029	Jan. 11	998	235	82	210
Siemens & Halske Electric Company of America. (See Drohan, Thomas E., assignor.) .....						
Siemens & Halske Electric Company of America. (See Eigner, Adolf G., assignor.) .....						
Siemens & Halske Electric Company of America. (See Görges, Johannes H. F., as- signor.) .....						
Siemens & Halske Electric Company of America. (See Hoffmann, Ernst W. G. C., as- signor.) .....						
Siemens & Halske Electric Company of America. (See Hundhausen, Rudolf L. L., as- signor.) .....						
Siemens & Halske Electric Company of America. (See Kahlenberg, Ernst L. K. F., as- signor.) .....						
Siemens & Halske Electric Company of America. (See Kötting, Karl A. B. D., assignor.) .....						
Siemens & Halske Electric Company of America. (See Miesler, Julius, assignor.) .....						
Siemens & Halske Electric Company of America. (See Reichel, Emil B. W., assignor.) .....						
Siemens & Halske Electric Company of America. (See Reichel and Stein, assignors.) .....						
Sier, Ferdinand, Allentown, Pa. Adjustable holdback .....	605,020	May 31	3247	746	83	1314
Siever, Charles M., Holton, Kans. Car-coupling .....	614,505	Nov. 22	2293	526	85	1108
Sieverling, George B., Roodhouse, Ill. Billiard-chalk holder .....	605,683	June 14	1147	266	83	1591
Sievers, Henry, assignor of one-half to H. Degner, West Bend, Wis. Thill-coupling .....	607,197	July 12	1051	227	84	220
Sigmond, Simon B., New York, N. Y. Envelop .....	602,411	Apr. 12	1419	321	83	286
Siggers, Edward G. (See Wolhaupter, David P., assignor.) .....						
Sigler, James F., Providence, Ky. Riveting-tool .....	614,903	Nov. 29	3011	690	85	1259
Siglow, Fred L., Toledo, Ohio. Bicycle crank and crank-axle .....	596,550	Jan. 4	157	35	82	32
Signal Control Company. (See Colgate, Arthur E., assignor.) .....						
Signorasti, Michele, New York, N. Y. Lock .....	610,373	Sept. 6	449	98	84	1525
Sigurdson, John, assignor of one-half to A. T. Long, Glenboro, Canada. Bedstead, table, sofa, or chair .....	597,071	Jan. 11	1079	255	82	226
Sigurdson, Oddur V., Manchester, England, assignor to Mergenthaler Linotype Com- pany, New York, N. Y. Ejector-blade for linotype or analogous machines .....	614,582	Nov. 22	2417	552 553	85	1131
Silberberg, Siegfried. (See Archer, Frank M., assignor.) .....						
Silberstein, Alex J., Framingham, Mass. Nest-box for henneries .....	605,979	June 21	1738	399	83	1720
Sill, Cyrus B., Niles, Ohio. Sheet or plate girder .....	602,274	Apr. 12	1189	261	83	294
Sill, Richard V., assignor of three-fourths to T. Cohalan, G. N. Chase, New York, N. Y., and D. F. Cohalan, Jersey City, N. J. Electric heater or rheostat .....	606,769	July 5	261	55	84	53
Sill Stove Works. (See Clunies, Arthur B., assignor.) .....						
Sill Stove Works. (See Will and Clunies, assignors.) .....						
Silva, Manoel R. de, Georgetown, British Guiana. Gage for finger-rings .....	610,097	Aug. 30	3537	820	84	1404



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Silver & Company. (See Silver, William H., assignor.)						
Silver, Hugh, Lindsay, Canada. Machine for graining lumber	601,908	Apr. 5	550	113 114	83	130
Silver Spring Bleaching and Dyeing Company. (See Stimpson, Thomas F., assignor.)						
Silver, William H., assignor to Silver & Company, Brooklyn, N. Y. Vaporizing oil-stove.	604,703	May 24	2719	621	83	1193
Silverman, Albert H., <i>et al.</i> (See Schoen, Paul, assignor.)						
Silverman, Haskel, New York, N. Y. Skirt	599,919	Mar. 1	463	104	82	1301
Silverman, Lazarus, Chicago, Ill. Surgical or other dressing and pad	608,921	Aug. 9	1373	324	84	941
Silvestri, Giulio, Vienna, Austria-Hungary. Valve-cock for rotary motors	609,562	Aug. 23	2594	606	84	1206
Silvestri, Giulio, Vienna, Austria-Hungary. Rotary motor	616,592	Dec. 27	2557	592	85	1962
Simcox, John H., McFall, Ind. Ter. Car-coupling	613,429	Nov. 1	400	92	85	692
Simington, Charley M., Lockhart, Tex. Seed-cotton distributor and feeder	601,174	Mar. 22	2746	631	82	1794
Simister, Robert S., Flixton, assignor to A. Clowes, Urmston, and A. L. Hulme, Manchester, England. Toe-protector for boots or shoes	616,810	Dec. 27	2669	692	85	2045
Simkin, Frank R., assignor of one-half to W. A. Canty, Hartford, Conn. Placket-closer	608,233	Aug. 2	114	28	84	677
Simmanee, John F., London, England. Gas-regulator	611,519	Sept. 27	2531	584	84	1980
Simmons, Adolphus I., Utica, N. Y. Mowing-machine	610,287	Sept. 6	279	60 61 62	84	1495
Simmons, Alonzo M., Marlborough, Mass. Nail-setting machine	602,275	Apr. 12	1190	261	83	239
Simmons, B. W. (See Long, Reuben, assignor.)						
Simmons, Cassius D., Berlin, N. Y. Bag-fastener	613,826	Nov. 8	1077	245	85	842
Simmons, James L., assignor of one-half to J. R. Johnson, Washington, D. C. Convertible power-transmitting gear	616,206	Dec. 20	1835	424	85	1801
Simmons, John H., Warren, Pa. Folding table	606,845	July 5	398	84, 85	84	80
Simmons, John P., San Francisco, Cal. Steam-boiler	600,296	Mar. 8	1251	286	82	1478
Simmons, John P., San Francisco, Cal. Rock-drill	601,288	Mar. 29	2984	674	82	1868
Simmons, John P., assignor to S. V. Mooney, San Francisco, Cal. Direct-acting engine	613,805	Nov. 8	1047	238	85	836
Simmons, John P., assignor to S. V. Mooney, San Francisco, Cal. Direct-acting engine	613,806	Nov. 8	1048	238	85	837
Simmons & Paye. (See Keith, Jeremiah, assignor.)						
Simmons, Samuel J., assignor of one-half to W. O. Simmons, Boston, Mass. Garment-clasp	613,890	Nov. 8	1189	272	85	864
Simmons, William O. (See Simmons, Samuel J., assignor.)						
Simms, Frederick R., London, England. Pneumatic tire	605,021	May 31	3249	746	83	1314
Simms, Frederick R., London, England. Wheel for motor-cars or other vehicles	605,022	May 31	3251	747	83	1314
Simms, Frederick R., London, England. Pulley, toothed wheel, &c.	610,002	Aug. 30	3389	786	84	1374
Simms, Sanford S. (See Drackett, Simms, and Hitchcock.)						
Simon, Charles. (See Ris and Simon.)						
Simon, Harris. (See Rubin and Simon.)						
Simon, Henry, Manchester, England. Purifier for middlings	601,817	Apr. 5	370	77	83	70
Simon, John E., Louisville, Ky. Apparatus for making clear can-ice	614,773	Nov. 22	2765	632	85	1197
Simon, Joseph, Santa Rosa, Cal. Pruning-shears	613,870	Nov. 8	1159	266	85	858
Simon, Minnie B. (See Klotz, Sidney, assignor.)						
Simon, Samuel H., <i>et al.</i> (See Crandall, Jesse A., assignor.)						
Simonds, Amos B., Youngstown, Ohio. Bicycle-frame	602,369	Apr. 12	1347	300	83	272
Simonds, Frank A. (See Parks, Edwin E., assignor.)						
Simonini, Angelo, New York, N. Y. Composition of matter for incandescent gas-lamps	599,018	Feb. 15	1628	-----	82	946
Simonini, Angelo, New York, N. Y., assignor, by mesne assignments, to United States Nomatic Light Company, of West Virginia. Art of and means for lighting gas or vapors	614,583	Nov. 22	2419	553	85	1132
Simons, David N., Grand Gorge, N. Y. Plant-protector	598,821	Feb. 8	1273	308	82	861
Simons, Edward S., <i>et al.</i> (See Simons, John F., assignor.)						
Simons, Frederic M., <i>et al.</i> (See Simons, John F., assignor.)						
Simons, John F., Philadelphia, assignor to himself, F. M. Simons, Swarthmore, Pa., E. S. Simons, Orange, N. J., and T. Maddock, Philadelphia, Pa. Thimble-gage	616,151	Dec. 20	1730	401	85	1779
Simonsen, Einar, Christiania, Norway. Treatment of materials containing cellulose	607,091	July 12	864	-----	84	186
Simonton, Jackson, Altoona, Pa. Mechanism for operating doors of hopper-bottom cars	616,811	Dec. 27	2969	692	85	2045
Simot, Roy, Holton, Mich. Cable-stopper	612,575	Oct. 18	1736	411	85	357
Simotta, Simonton. (See Huber, Georg, assignor.)						
Simpier, Alphonse, Albuquerque, N. Mex. Ter. Velocipede	601,107	Mar. 22	2632	601	82	1773
Simpkins, Ernest, London, England. Coin-freed gas-meter	613,329	Nov. 1	191	42	85	653
Simplex Railway Appliance Company. (See Bauer, Carl E., assignor.)						
Simplex Railway Appliance Company. (See Lamont, Robert P., assignor.)						
Simpson, Bert J., Columbus, Ohio. Fountain-brush	600,557	Mar. 15	1723	393	82	1587
Simpson, Daniel H., J. Walker, Cheadle Hulme, J. Strang, Entwistle, and F. Farnworth, Ramsbottom, England. Machine for washing printers' blankets	604,504	May 24	2365	536 537	83	1125
Simpson, George, <i>et al.</i> (See Himes, Judson W., assignor.)						
Simpson, Hugh P. (See Little, Joseph A., assignor.)						
Simpson, James M. (See Simpson, Williams, and Simpson.)						
Simpson, John, Sheffield, England. Umbrella, parasol, &c.	607,711	July 19	2170	457	84	456
Simpson, John, assignor of one-half to D. A. Robinson, Minneapolis, Minn. Coal-pocket	609,054	Aug. 16	1657	395	84	1009
Simpson, Joseph and R. D., Columbus, Ohio. Paster for wrappers, &c.	601,594	Mar. 29	3486	795	82	1967
Simpson, Matthew P., E. P. Williams, and J. M. Simpson, McPherson, Kans. Disk planter	605,755	June 14	1262	291	83	1613
Simpson, Robert D. (See Simpson, Joseph and R. D.)						
Simpson, Rufus A., Florence, Cal. Hay rake and stacker	602,145	Apr. 12	968	211 212	83	195
Simpson, Samuel W., assignor to Bardeen Paper Company, Otsego, Mich. Means for removing foreign substances from paper-pulp	608,305	Aug. 2	235	54	84	702
Simpson, Thomas H., and P. T. Handiges, assignors to Monarch Brake-Beam Company, Limited, Detroit, Mich. Brake-beam for railway-cars	606,308	June 28	2376	550	83	1861
Simpson, William B., Benton, La. Wagon-spring	598,024	Jan. 25	2702	631	82	574
Simpson, William E., Mansfield, England. Gas-operated gun	598,822	Feb. 8	1274	309	82	862
Simpson, William X., Aurora, Ill. Wheeled scraper	609,593	Aug. 23	2649	619 620	84	1216
Simrak, Samuel S., assignor to A. R. Herman, San Francisco, Cal. Gas-engine	598,025	Jan. 25	2703	631	82	574
Sims, Edgar. (See Moll, Tolly, and Sims.)						
Sims, Frederick L. H., Toronto, Canada. Wire-cut clay-working machine	598,539	Feb. 8	807	193	82	773
Sims, S. S. (See Millen, Lincoln H., assignor.)						
Sims, Silas, Hannibal, Mo. Churn-dasher	614,138	Nov. 15	1601	367	85	966
Sinclair, Anna T., New York, N. Y. Hand or finger muff	607,963	July 26	2657	567	84	567
Sinclair, James, Marquette, Mich. Stone-working tool	600,808	Mar. 15	2138	488	82	1665
Sindelar, Joseph, Ipswich, S. D. Prairie burner and extinguisher	611,712	Oct. 4	211	50, 51	85	44
Sinding-Larsen, Alf, Christiania, Norway. Extracting metals	607,287	July 12	1229	-----	84	254
Sine, William R., Williamsport, Pa. Medicine-dropper	599,642	Feb. 22	2779	646	82	1189
Sines, Henry M. (See Hopkins and Sines.)						
Singer, Emil, Peoria, Ill. Siphon-head	602,200	Apr. 12	1069	234	83	231



*Alphabetical list of patentees—Continued.*

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Singer Manufacturing Company. (See Allen, Edward B., assignor.)						
Singer Manufacturing Company. (See Diehl, Philip, assignor.)						
Singer Manufacturing Company. (See Douglas and Hansen, assignors.)						
Singer Manufacturing Company. (See Greene, James G., assignor.)						
Singer Manufacturing Company. (See Kerr, John, assignor.)						
Singer Manufacturing Company. (See Kraemer, Thomas, assignor.)						
Singer, Paris E., London, England. Internal-combustion or detonating engine	600,971	Mar. 22	2405	549	82	1729
Singer, William F., New York, N. Y. Refrigerating apparatus	597,532	Jan. 18	1856	430	82	395
Singerly, William M. (See Speer, Edward D., assignor.)						
Singleton, Asberry, Richland, Iowa. Gunpowder and making same	610,417	Sept. 6	525		84	1539
Singleton, David T., Willard, Ga. Bicycle shoulder-brace	601,530	Mar. 29	3392	769	82	1947
Singleton, Frederica J., and R. R. de la Giltonniere, Hazeley, England. Wheel-guard for vehicles	602,480	Apr. 19	1540	350	83	325
Singleton, George, Jersey City, N. J. Pick	613,729	Nov. 8	910	208	85	810
Singleton, George W., assignor to P. J. Ramion, J. A. Henesey, and M. E. Ramion, Syracuse, N. Y. Switching mechanism	612,063	Oct. 11	842	205 206	85	175
Singleton, James M., Lufkin, Tex. Apparatus for checking runaway horses	609,841	Aug. 30	3094	722	84	1317
Singley, Benneville L., Meadville, Pa. Stereoscope	597,440	Jan. 18	1707	395	82	364
Sinner, Eduard, Tipton, Kans. Automatic wagon-brake	605,235	June 7	329	76	83	1413
Sinnott, Philip, New York, N. Y. Clothes-line	606,363	June 28	2480	576	83	1880
Sintz, George, Seattle, Wash. Propeller	612,618	Oct. 18	1827	433 434	85	375
Sipp, Christopher E., Brooklyn, N. Y. Means for fastening neckties and collars to shirts	605,262	June 7	396	89	83	1427
Sipple of C., Casper, Gardenville, Md. Machine for washing vegetables	599,535	Feb. 22	2561	601	82	1145
Siroich, Antonio, Vienna, Austria-Hungary. Wheel-hub	615,640	Dec. 6	785	182	85	1568
Sise, Robert W., Medford, Mass. Chain-cleaning attachment	604,429	May 24	2219	496	83	1100
Sisley, Samuel L., Perryopolis, Pa. Wagon-brake	604,704	May 24	2721	622	83	1193
Sisson, Arthur W., Battle Creek, Mich. Pneumatic stacker	608,306	Aug. 2	237	54	84	702
Sisson, Fred, assignor of one-half to J. W. Cummins, Paris, Ill. Reach-coupling for vehicles	609,056	Aug. 16	1661	395	84	1009
Sittig, Lena, Brooklyn, N. Y. Trunk for undergarments	602,188	Apr. 12	1052	230	83	212
Sittkus, Fred. (See Bourbeau, Frederick A., assignor.)						
Sittser, Frank L. (See Wall, Thomas B., assignor.)						
Sivan, Casimir, Geneva, Switzerland, assignor to J. A. Vincent, Philadelphia, Pa. Talking watch or clock	605,192	June 7	240	57	83	1396
Sivley, John J., Jr., Clarksville, Tex. Railway cattle-guard	614,506	Nov. 22	2295	526	85	1108
Sivright, William W. (See Pendergast, Maurice D., assignor.)						
Sjöman, Theodor. (See Cunningham and Sjöman.)						
Skaife, Lewis, Montreal, Canada. Conduit	600,935	Mar. 22	2356	534	82	1720
Skarin, Gustaf A., Buffalo, N. Y. Wheel-hub	605,208	June 7	280	65	83	1403
Skeele, Henry B., assignor to Ludowici Roofing Tile Company, Chicago, Ill. Roofing-tile	607,489	July 19	1780	370	84	385
Skeen, Robert, St. Louis, Mo. Automatic electric regulator	608,721	Aug. 9	987	227 228	84	869
Skelton, Robert H. (See Staley, James, assignor.)						
Skersick, Joseph F., Cedar Rapids, Iowa. Saw set and jointer	611,713	Oct. 4	213	51	85	44
Skevington, Henry H., and W. L. Whitehead, Philadelphia, Pa. Sinker-top for hosiery-knitting machines	606,094	June 21	1960	451	83	1760
Skilton-Brown International Car Box Company. (See Skilton, John W., assignor.)						
Skilton, Henry, Ramsgate, England. Tobacco-pipe rack	610,249	Sept. 6	194	44	84	1480
Skilton, James A., trustee. (See Sanborn, Hermann L., assignor.)						
Skilton, John W., Daytona, Fla., assignor to Skilton-Brown International Car Box Company, New Orleans, La. Lubricating journal-box	598,961	Feb. 15	1525	363	82	926
Skilton, John W., Daytona, Fla., assignor of two-thirds to E. B. Brown, Chicago, Ill. Railway-tank feeder	610,772	Sept. 13	1139	262	84	1679
Skinner, Allen L., assignor of one-half to A. J. Skinner, Springfield, Mass. Friction clutch mechanism	609,524	Aug. 23	2328	591	84	1193
Skinner, Arthur J. (See Skinner, Allen L., assignor.)						
Skinner, Charles W., assignor of one-half to R. C. Daugherty, Troy, Ohio. System of irrigation	614,507	Nov. 22	2296	526	85	1109
Skinner, Ernest B., Ogden, Utah. Electric brake	609,124	Aug. 16	1797	428	84	1032
Skinner, Ernest M., Boston, assignor of one-half to G. S. Hutchings, Cambridge, Mass. Pipe-organ. (Reissue)	11,669	June 14	1443	331 332	83	1646
Skinner, Frank, Philadelphia, Pa. Pipe-hanger and shield for bicycle-riders	605,142	June 7	161	40	83	1381
Skinner, George A. (See Skinner, William H. and G. A.)						
Skinner, John, assignor of one-third to R. Ashley, Davison, Mich. Potato-planter	606,901	July 5	478	103	84	95
Skinner, Le Grand. (See Glenn, John C., assignor.)						
Skinner, Orville B., and G. M. Bacon, assignors of one-third to G. G. Wells, Cleveland, Ohio. Electric-arc lamp	599,480	Feb. 22	2467	580	82	1127
Skinner, William H., Darlington, assignor of one-half to J. H. Womack, Greensburg, La. Drilling-tool	611,947	Oct. 4	614	149	85	120
Skinner, William H. and G. A., Chicago, Ill. Jewelry-pin	600,180	Mar. 8	1060	239	82	1441
Skirvin, C. F. (See Swartz, Robert E., assignor.)						
Skoglund, Jean V., Bayonne, N. J., assignor to himself, and A. Winter, New York, N. Y. Condenser for nitric acid	603,412	May 3	290	65	83	656
Skov, Soren R. (See Crumrine and Skov.)						
Skrine, Francis H., London, England. Means for carrying velocipedes in railway-cars	608,777	May 10	961	215	83	803
Slaalien, Sevald E., Butterfield, Minn. Spike-puller	616,207	Dec. 20	1837	424	85	1801
Slack, John C., Brooklyn, N. Y. Pliers	606,591	June 28	2891	669	83	1962
Slack, Lewis W., Williamsport, Pa. Pigeon-trap	608,801	Aug. 9	1137	263	84	896
Slade, James B., Riverhead, N. Y. Ventilator	597,171	Jan. 11	1247	293	82	259
Slade, William H. (See Ricketts, William M., assignor.)						
Sladek, Johann, assignor of one-half to G. Ladewich, New York, N. Y. Scaffold	607,805	July 19	2351	497	84	491
Slaght, Lewis H., assignor to R. Slaght, Waterford, Canada. Lawn-mower	610,694	Sept. 13	994	231	84	1650
Slaght, Roxa. (See Slaght, Lewis H., assignor.)						
Slater, Augusta U. (See Slater, John H., assignor.)						
Slater, Edmond B., assignor to Foster, Merriam & Company, Meriden, Conn. Furniture-caster	610,309	Sept. 6	322	69	84	1503
Slater, George W., Philadelphia, Pa. Heating or vulcanizing apparatus	606,364	June 28	2481	576	83	1881
Slater, John H., assignor to A. U. Slater, Chicago, Ill. Office-indicator	598,163	Feb. 1	151	35	82	631
Slater, William W., et al. (See Park, Louis C., assignor.)						
Slattery, Mary A., Leckhampton, England. Bed-pan	601,084	Mar. 22	2594	592	82	1766
Slattery, Jeremiah J., assignor, by mesne assignments, to C. L. Wells, Troy, N. Y. Display-support	600,599	Mar. 15	1793	410	82	1600
Slaughter, George M., and F. Christian, Running Water, Tex. Grass-burning device	599,872	Mar. 1	379	85	82	1234
Slaughter, Sherman, assignor to F. M. Stingley and J. J. Young, Clark's Hill, Ind. Tire-tightener	600,624	Mar. 15	1826	419	82	1605



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Slawik, Joseph, Bloomfield, N. J. Organ-action	599,199	Feb. 15	1917	453	82	998
Slay, William A., Penton, Ala. Combination corn and cotton cultivator	612,876	Oct. 25	2314	550	85	486
Slayton, Augustus W., Tecumseh, Mich. Insulating-caster and electric switch combined	608,234	Aug. 2	115	29	84	677
Sleister, Clarence, Peoria, Ill. Spark-conductor	606,770	July 5	262	55	84	53
Sletto, Oscar K., Fergus Falls, Minn. Belt-regulator	608,486	Aug. 2	564	126	84	767
Slick, Edwin E., and T. Morrison, Braddock, Pa. Cinder-car	603,117	Apr. 26	2648	601	83	548
Sligh, James H., Gadsden, Ala. Headlight for locomotives	613,330	Nov. 1	194	42	85	654
Slinack, Victor H., Philadelphia, Pa., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Street-lamp	597,548	Jan. 18	1884	437	82	401
Slingerland, William, Jamestown, N. Y. Bicycle-lock	601,047	Mar. 22	2536	577	82	1754
Slingluff, John. (See Clay, Henry, assignor.)						
Slippen, Erling, Anaconda, Mont. Bicycle-propelling mechanism	598,026	Jan. 25	2706	631	82	575
Sloan, Robert A., and J. E. L. Barnes, Liverpool, England. Game	614,996	Nov. 29	3208	738	85	1399
Sloan, Robert A., and J. E. L. Barnes, Birkenhead, England. Hermetically-sealed can and opener for same	616,740	Dec. 27	2855	662	85	2021
Sloane, Joseph H., Meriden, Conn. Folding rack	602,481	Apr. 19	1541	350	83	323
Slocumb, Frank F. (See Craig and Slocumb.)						
Slocum, Frank L. (See Wheeler and Slocum.)						
Slocum, Frank L., Pittsburg, Pa. Manufacture of gas	612,462	Oct. 18	1536	369	85	319
Slocum, Margaret M., et al. (See Slocum, William H., assignor.)						
Slocum, William A., Lansing, Mich. Automatic switch-lock for railways	603,385	May 3	230	54	83	646
Slocum, William H., assignor to P. Eaton and M. M. Slocum, Buffalo, N. Y. Type-writing machine	614,216	Nov. 15	1741	400	85	992
Slomka, Adolf, New York, N. Y. Refrigerator lunch-box	601,798	Apr. 5	333	67	83	63
Sloper, James, et al. (See Masson and Lochelongue, assignors.)						
Sloper, Thomas, Devizes, England. Pneumatic tire	610,310	Sept. 6	323	69,70	84	1503
Sloper, Thomas, Devizes, England. Cycle or other carriage	614,183	Nov. 15	1669	384	85	979
Sloper, Thomas, Devizes, assignor of one-half to C. H. Gray, Silvertown, England. Closure cap, cover, stopper, or the like	610,924	Sept. 20	1398	320	84	1746
Sloper, Thomas B., Devizes, England. Bicycle-brake	608,082	July 26	2875	615	84	613
Slusser, Bert E., Denver, Colo. Chainless bicycle-gearing	609,471	Aug. 23	2431	569	84	1174
Slutz, John C. (See Radcliffe and Slutz.)						
Sly, Cornelius J., Klamath Falls, Oreg. Fish-hook	610,098	Aug. 30	3538	820	84	1405
Smack, Charles E., and W. Bulkeley; said Bulkeley assignor to T. E. Whitworth, Cleveland, Ohio. Vehicle-lantern	595,949	Jan. 4	861	202	82	168
Small, John F., assignor, by mesne assignments, to M. E. H. Rutter, Chicago, Ill. Automatic railway-gate	599,019	Feb. 15	1630	385	82	946
Small, John F., assignor to M. E. H. Rutter, Chicago, Ill. Railway-gate	599,020	Feb. 15	1632	386	82	947
Small, Ralph D. (See Winger, Oswald E., assignor.)						
Smalley, A. L., et al. (See Ansley, George W., assignor.)						
Smalley, Albert G., Boston, Mass. Bottle attachment	601,988	Apr. 5	699	148	83	132
Smalley, James, Fall River, assignor to E. Hall, Worcester, Mass. Cloth folding and measuring machine	600,558	Mar. 15	1725	394	82	1587
Smallwood, Robert, assignor of one-half to G. Clish, D. McDonald, and S. R. Tupper, Truro, Canada. Steam-boiler	599,200	Feb. 15	1918	453	82	999
Smallwood, Shippley S. (See Dodd and Smallwood.)						
Smallwood, William, Redditch, England. Swivel for fishing-tackle	612,576	Oct. 18	1738	411	85	357
Smart, George E. (See Lester and Smart.)						
Smart, Herbert D., Nashua, N. H., assignor of one-half to H. D. Bowen, Worcester, Mass. Nut lock	600,748	Mar. 15	2045	467	82	1648
Smart, Herbert D., Nashua, N. H., assignor of one-half to W. G. Rose, Quincy, Mass. Adjustable hanger for picture-frames, &c.	614,184	Nov. 15	1672	385	85	979
Smart, Samuel M. (See Weed and Atkin, assignors.)						
Smart, Walter J., South Orange, N. J. Gas-lamp	598,059	Jan. 25	2759	643	82	586
Smart, Walter J., South Orange, N. J. Gas-lamp	599,873	Mar. 1	380	85	82	1285
Smay, Orlando, Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Rail joint	616,440	Dec. 20	2273	530	85	1890
Smead Cremating and Power Company. (See Smead, Isaac D., assignor.)						
Smead Furnace and Foundry Company. (See Smead, Isaac D., assignor.)						
Smead, Isaac D., Toledo, Ohio. Dish-cleaner	605,929	June 21	1637	376	83	1702
Smead, Isaac D., assignor to Smead Furnace and Foundry Company, Toledo, Ohio. Underfeed furnace	599,021	Feb. 15	1634	386	82	947
Smead, Isaac D., assignor to Smead Furnace and Foundry Company, Toledo, Ohio. Warm-air furnace	599,022	Feb. 15	1635	387	82	948
Smead, Isaac D., assignor, by mesne assignments, to Smead Cremating and Power Company, Toledo, Ohio. Garbage-furnace	607,553	July 19	1892	392	84	404
Smedberg, William R. (See Redmon, Frederick A., assignor.)						
Smedeman, Gustaf, Washburn, assignor of one-half to J. Anderson, Racine, Wis. Tamping machine	602,112	Apr. 12	904	96	83	183
Smethurst, George, Maynard, Mass. Speed-varying mechanism for pulleys	611,948	Oct. 4	621	150	85	120
Smetters, Andrew J., Chicago, Ill. Music or book holder and rack	601,736	Apr. 5	215	44	83	43
Smillie, George W., Newark, N. J. Car-coupling	602,879	Apr. 26	2228	504	83	468
Smith, Adam and J., Blissville, Ill. Traction-wheel	597,594	Jan. 18	1963	456	82	417
Smith, Adam and J., Ashley, Ill. Gate	610,978	Sept. 20	1497	341	84	1765
Smith, Albert S. (See Mills, James, assignor.)						
Smith, Albert U., assignor to E. C. Smith Company, Saugatuck, Conn. Price-scale	597,300	Jan. 11	1442	338	82	296
Smith, Albert W., Washington, D. C. Speed indicator	614,584	Nov. 22	2423	553	85	1132
Smith, Albin R., and J. Schmitt, Jr., Wilkes-Barré, Pa. Barrow wheel	609,303	Aug. 16	2133	506	84	1099
Smith, Alfred B., Topeka, Kans. Fastener for overshoes	612,530	Oct. 18	1641	392	85	340
Smith, Alfred B., and J. G. Rapp, Chicago, Ill. Laundry ironer	602,607	Apr. 19	1732	400	83	361
Smith, Alfred H. (See Hann, Bromley, Price, Smith, and Radcliffe.)						
Smith, Alfred H., and W. A. Brainard, Youngstown, Ohio. Car wheel and axle gage	606,772	July 5	265	55	84	53
Smith, Alfred Z. (See Galloway and Smith.)						
Smith, Alva B., Oakland, Tenn. Combination-tool	601,737	Apr. 5	222	44	83	43
Smith, Amos H., assignor of one-half to F. T. Van Hoesen, Brooklyn, N. Y. Printing-press	605,350	June 7	567	125	83	1460
Smith, Amos H., assignor of one-half to F. T. Van Hosen, New York, N. Y. Sash-faster	615,758	Dec. 13	987	230	85	1618
Smith, Amsden H., et al. (See Wilcomb, Frank, assignor.)						
Smith, Andrew A., Aberdeen, assignor of one-half to W. W. Barnum, Ocosta, Wash. Change-making device	597,301	Jan. 11	1445	339	82	297
Smith, Andrew L., New York, N. Y. Car-fender	609,951	Aug. 30	3285	766	84	1354
Smith, Andy C., Sigel, Pa. Oil-well-tubing attachment	605,756	June 14	1264	292	83	1613
Smith, Anthony, assignor to himself and J. E. Davies, Trenton, N. J. Reversible plow	616,741	Dec. 27	2856	662	85	2022



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Smith & Anthony Company. (See Lloyd, William H., assignor.)						
Smith, Belon B., assignor of one-third to H. H. Thornton, Pensacola, Fla. Nut-lock	611,847	Oct. 4	447	106	85	90
Smith, Benjamin F., Somerville, Mass. Hand drilling-machine	610,773	Sept. 13	1142	262	84	1679
Smith, Benjamin F., assignor of one-half to J. A. Shields, Wichita, Kans. Axle setting and straightening tool	608,528	Aug. 2	636	143	84	781
Smith, Benjamin T., and A. E. Baker, St. Louis, Mo. Trunk	610,500	Sept. 6	679	152	84	1569
Smith, Brainard F., Represa, Cal. Pipe for smoking	596,832	Jan. 4	664	153	82	129
Smith, Brainerd W., Delphos, assignor to himself, and J. B. Flanders, Van Wert, Ohio. Rotary valve	614,139	Nov. 15	1603	368	85	967
Smith, Carman N., administrator. (See Plant, Joseph, assignor.)						
Smith, Charles, Casterton, Victoria. Office-indicator	600,095	Mar. 1	859	198	82	1383
Smith, Charles, Belleville, N. J. Gate-valve	600,181	Mar. 8	1060	239	82	1441
Smith, Charles B., Elizabeth, Pa. Extension-table	596,551	Jan. 4	157	35, 36	82	32
Smith, Charles E., New York, N. Y. Necktie-fastener	596,552	Jan. 4	160	36	82	33
Smith, Charles F., Bridgeport, and G. Mortson, assignors to Aetna Machine Company, Hartford, Conn. Machine for manufacturing sheet-metal hinges	611,714	Oct. 4	214	51 52 53 54 55	85	45
Smith, Charles G., Minneapolis, Minn. Overalls	605,236	June 7	330	76, 77	83	1414
Smith, Charles G., Detroit, Mich. Spring-bed device	609,842	Aug. 30	3096	722	84	1317
Smith, Charles G., New York, N. Y. Burner	611,949	Oct. 4	616	150	85	120
Smith, Charles H., New Bedford Mass. Cover and cover-holder for boots or shoes.	599,133	Feb. 15	1813	431	82	981
Smith, Charles H., Coulterville, Cal. Car-coupling	604,505	May 24	2367	537	83	1126
Smith, Charles R., Barnett, Ga. Rail-joint	597,789	Jan. 25	2306	537	82	497
Smith, Charles R., Neenah, Wis. Waterproofing material	607,773	July 19	2267		84	475
Smith, Charles R., Chicago, Ill. Journal-bearing	613,083	Oct. 25	2643	624	85	552
Smith, Charles S., Providence, R. I. Surgical apparatus	607,666	July 19	2100	438	84	442
Smith, Charles S., Providence, R. I. Obstetrical apparatus	608,083	July 26	2876	616	84	613
Smith, Charles S., Shipley, England. Bottle for holding spirits or other liquids and aerated waters separated until bottle is opened	611,520	Sept. 27	2532	585	84	1980
Smith, Charles W., Moline, assignor to L. Allars, Rock Island, Ill. Apparatus for producing artificial fuel	599,264	Feb. 15	2021	479	82	1020
Smith, Chauncy, deceased; C. C. Read and C. Smith, Cambridge, Mass., executors. Ball-bearing	609,463	Aug. 23	2416	567	84	1173
Smith, Chris N., assignor of one-half to G. A. Rowe, Elgin, Ill. Coffin-lid fastener	604,848	May 31	2962	679	83	1258
Smith, Christian P., Three Rivers, Mich. Car-wheel	616,024	Dec. 13	1467	343	85	1712
Smith, Clyde L., Leipsic, Ohio. Envelop-fastening	610,099	Aug. 30	3539	820	84	1405
Smith, Conrad E., Plainfield, Ill. Marker for seed or corn planters.	607,887	July 26	2525	536	84	542
Smith, Cyrus E., Fall River, assignor to Whitin Machine Works, Whitinsville, Mass. Carding-machine	599,067	Feb. 15	1702	403	82	961
Smith, D. A., Powel, Nebr. Spout for grain-droppers	611,980	Oct. 4	667	162	85	130
Smith, David A., et al. (See Lewis, George, assignor.)						
Smith, De Wane B., Deerfield, N. Y. Horse hay-rake	597,072	Jan. 11	1081	255 256	82	226
Smith, De Wane B., Deerfield, N. Y. Swivel hose-coupling	601,683	Apr. 5	107	21	83	23
Smith, De Wane B., Deerfield, N. Y. Sprayer	616,024	Aug. 30	3097	722	84	1317
Smith, Dyonicious O., Whistler, Ala. Apparatus for boring locomotive-cylinders	599,265	Feb. 15	2022	479 480	82	1020
Smith, Edward A., Greeley, Colo. Pick	599,949	Mar. 1	512	116	82	1310
Smith, Edward C., assignor of one-half to C. W. Jefferson, Schenectady, N. Y. Pneumatic hub for vehicle-wheels	615,759	Dec. 13	988	230	85	1619
Smith, Edward L., assignor to J. F. Alvord and H. W. Huke, Torrington, Conn. Recording door-lock	597,917	Jan. 25	2512	588	82	537
Smith, Edwin A., New York, N. Y. Hair-crimper	603,209	Apr. 26	2793	638	83	576
Smith, Edwin F., Springfield, Ill. Horseshoe	604,091	May 17	1590	357	83	958
Smith, Edwin J., et al. (See Hawkes, Frank F., assignor.)						
Smith, Edwin L., Salida, Colo. Pneumatic shoe-form	614,508	Nov. 22	2298	527	85	1109
Smith, Eldridge J., Washington, D. C., assignor to Smith Flexible Chair Manufacturing Company of Virginia. Foot-rest	603,155	Apr. 26	2711	616	83	560
Smith, Eldridge J., Washington, D. C., assignor to Smith Flexible Chair Manufacturing Company, of Virginia. Chair	608,010	July 26	2760	586	84	590
Smith, Eldridge J., Washington, D. C., assignor to Smith Flexible Chair Manufacturing Company, of Virginia. Seat or settee	609,916	Aug. 30	3220	754	84	1341
Smith, Eldridge J., Washington, D. C., assignor to Smith Flexible Chair Manufacturing Company, of Virginia. Easy-chair	614,997	Nov. 29	3210	738	85	1300
Smith, Eldridge J., Washington, D. C., assignor to Street Cleaning Company, Washington, D. C., and Alexandria, Va. Street-sweeper	606,248	June 28	2269	524	83	1839
Smith, Eli, Dressor, Ill. Railway bed and tie	601,799	Apr. 5	334	68	83	63
Smith, Ella G., Ithaca, N. Y. Pattern fabric	601,595	Mar. 29	3488	795	82	1967
Smith, Emerson H., Marceline, Mo. Drift-register	607,092	July 12	865	187	84	186
Smith, Ernst G., Columbia, Pa. Level	612,577	Oct. 18	1738	412	85	357
Smith, Eugene C., New York, N. Y., assignor to Plaster Machine Company, of New York. Process of and machine for making plaster board	597,332	Jan. 11	1505	351 352 353	82	310
Smith Flexible Chair Manufacturing Company. (See Smith, Eldridge J., assignor.)						
Smith, Frank A., Oconto, Wis. Carbureter	607,888	July 26	2527	536	84	542
Smith, Frank A., Oconto, Wis. Carbureter	607,889	July 26	2532	537	84	543
Smith, Frank C., Delaware, Ohio, assignor to Manhattan Rubber Manufacturing Company, Passaic, N. J. Hose-coupling	614,509	Nov. 22	2300	527	85	1109
Smith, Frank S. and S. J., Conemaugh, assignors of one-half to J. P. Lehman, Geistown, and L. E. Kinch, Pittsburg, Pa. Car-axle lubricator	609,844	Aug. 30	3099	722	84	1317
Smith, Frank W., Portland, Me. Apparatus for treating or sterilizing canned food	604,642	May 24	2603	594 595	83	1171
Smith, Frank W., assignor of one-half to F. O. Conant, Portland, Me. Can-filling machine	606,034	June 21	1846	425	83	1738
Smith, Franklin C., Los Angeles, Cal. Process of and composition for preserving eggs	607,806	July 19	2352	497	84	491
Smith, Franklin G., and H. R. Atwater, Cleveland, Ohio. Brush	602,795	Apr. 19	2088		83	425
Smith, Fred C. (See Wright, George E., assignor.)	613,807	Nov. 8	1049	239	85	837
Smith, Fred C., Delavan, Wis. Oil pump	608,274	Aug. 2	179	43	84	690
Smith, Fred W., Evanston, Ill. Bicycle	597,441	Jan. 18	1707	395	82	365
Smith, Frederick H., Dunblane, Scotland. Acetylene-gas generator	607,650	July 19	2071	432	84	437
Smith, Frederick H., Dunblane, Scotland. Acetylene-gas generator	616,266	Dec. 20	1957	456	85	1826
Smith, George A., New York, N. Y., and S. P. Freir, Hasbrouck Heights, N. J. assignors to G. S. Bothwell, New York, and J. Alexander, Brooklyn, N. Y. Registering device	599,364	Feb. 22	2234	531	82	1032



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Smith, George E., Exeter, N. H. Non-refillable bottle.....	597,030	Jan. 11	999	{ 235 236	{ 82	210
Smith, George G., St. Albans, Vt. Differential gas-motor.....	597,749	Jan. 25	2222	{ 517 518	{ 82	482
Smith, George H., Lowell, Mass. Street-car fender.....	604,944	May 31	3123	718	83	1290
Smith, George P., assignor of one-half to W. H. Powell, Jerseyville, Ill. Fence.....	611,981	Oct. 4	669	162	85	131
Smith, George W., Petersburg, Ill. Reversible rotary engine.....	596,833	Jan. 4	666	154	82	129
Smith, George W., St. Louis, Mo. Underground electric railway.....	613,084	Oct. 25	2644	625	85	552
Smith, Harper F., Philadelphia, Pa. Vapor-burner.....	610,334	Sept. 6	375	79	84	1512
Smith, Harry G. (See Todd and Smith.)						
Smith, Harvey W. (See Gribben and Smith.)						
Smith, Henry, Jr., Baltimore, Md. Filter.....	613,048	Oct. 25	2573	611	85	539
Smith, Henry A. E., Walthamstow, assignor to W. R. Dodd, London, England. Molding-press.....	614,239	Nov. 15	1801	415	85	1002
Smith, Henry D., and J. W. Batcheller, assignors of one-third to J. H. Sparks, St. Joseph, Mo. Permutation-lock.....	598,027	Jan. 25	2707	632	82	575
Smith, Henry E., Midlothian, Tex. Washing-machine.....	600,600	Mar. 15	1794	410	82	1600
Smith, Henry H. (See Dittbenner, Hermann G., assignor.)						
Smith, Henry T., assignor to Standard Seamless Wire Company, Pawtucket, R. I. Display-card.....	605,351	June 7	569	125	83	1460
Smith, Henry V. H., Norfolk, Va., assignor to Tompkins Brothers, Troy, N. Y. Bur-holder attachment for knitting-machines.....	609,594	Aug. 23	2652	620	84	1216
Smith, Henry W., et al. (See Kerr, James G., assignor.)						
Smith, Herbert W., Somerville, Mass., assignor to F. L. Gaylord Company, Ansonia, Conn. Trolley-head.....	598,580	Feb. 8	878	210	82	788
Smith-Hill Elevator Company. (See Pool, Frank E., assignor.)						
Smith, Hinsdale, Springfield, Mass. Motor-vehicle.....	616,267	Dec. 20	1958	{ 456 457	{ 85	1826
Smith, Hiram W., et al. (See Olmstead, Gus E., assignor.)						
Smith, Howard F., Elkhart, Ind. Paper box.....	610,950	Sept. 20	1448	332	84	1756
Smith, Hubert M., New York, N. Y. Wrench.....	603,290	May 3	78	* 20	83	616
Smith, Hugh L. (See Dibble, Morton A., assignor.)						
Smith, Humphrey R., assignor to Burdett Rowntree Manufacturing Company, Chicago, Ill. Electrical apparatus for operating elevator-doors.....	604,128	May 17	1653	371	83	970
Smith, Irby M., Pasquo, Tenn. Reversible drive-gate.....	604,921	May 31	3093	711	83	1284
Smith, Jacob E., Homestead, Pa. Car-coupling.....	606,688	July 5	94	20, 21	84	21
Smith, Jacob S., Chicago, Ill. Pipe-coupling, &c.....	598,395	Feb. 1	550	134	82	706
Smith, Jacob S., Chicago, Ill. Pneumatic pumping-machine.....	615,760	Dec. 13	990	{ 230 231 232	{ 85	1619
Smith, James. (See Kennedy, Henry A., assignor.)						
Smith, James C., assignor to Garford Manufacturing Company, Elyria, Ohio. Bicycle-saddle clamp.....	606,689	July 5	96	21	84	21
Smith, James D., assignor of one-fourth to J. S. Andrews, Canandaigua, N. Y. Dental engine.....	598,295	Feb. 1	404	95	82	678
Smith, James E. (See Prichard and Taylor, assignors.)						
Smith, James F., San Francisco, Cal. Safety attachment for gas-cocks.....	604,197	May 17	1785	402	83	997
Smith, James H. (See Hurlbut, George H., assignor.)						
Smith, James H. (See Neil, William, assignor.)						
Smith, James H., Chicago, Ill. Photographic-negative rack.....	600,273	Mar. 8	1220	277	82	1472
Smith, James H., Chicago, Ill. Photographic tray.....	616,152	Dec. 20	1731	401	85	1779
Smith, James K. P., Ennis, Tex. Washing-machine.....	612,877	Oct. 25	2315	551	85	486
Smith, James L. (See Higbee, Jesse T., assignor.)						
Smith, James R., Jefferson, Ala. Wire-fencing tool.....	605,352	June 7	569	126	83	1461
Smith, Jane E. W., Washington, D. C. Sleeve-form.....	612,281	Oct. 11	1222	292	85	247
Smith, Jay H., Rochester, N. Y. Fly-poison dish or plate.....	601,596	Mar. 29	3489	795	82	1967
Smith, Jay H., Rochester, N. Y. Fly-poison plate, &c.....	601,597	Mar. 29	3491	796	82	1967
Smith, Joel S., New Haven, Conn. Book-support.....	607,890	July 26	2536	537	84	544
Smith, Joel S., New Haven, Conn. Sheet-metal book-support.....	607,891	July 26	2537	538	84	544
Smith, John. (See Smith, Adam and J.)						
Smith, John A. (See Jessup, Nathan, assignor.)						
Smith, John A., Pittsburg, Pa. Bicycle-tire.....	601,048	Mar. 22	2538	577	82	1754
Smith, John C., et al. (See Bennum, George W., assignor.)						
Smith, John D., Pond Hill, Pa. Ironing-table.....	612,935	Oct. 25	2401	572	85	504
Smith, John G. (See Leveille, Michael H., assignor.)						
Smith, John L., assignor to himself and O. Thomas, Sumner, Nebr. Combined hand-car and mowing-machine.....	598,201	Feb. 15	1919	454	82	999
Smith, John T., Norway, Iowa. Clothes-line tightener.....	607,892	July 26	2538	538	84	545
Smith, John T., deceased, Rock Fall, Conn.; O. A. Smith, administrator. Pliers.....	602,880	Apr. 26	2230	505	83	468
Smith, John W. (See Hiatt, Christopher C., assignor.)						
Smith, John W., et al. (See Young, Harland H., assignor.)						
Smith, John W., and A. H. Young, Worcester, Mass. Governor mechanism.....	604,798	May 31	2884	659	83	1244
Smith, Joseph, and W. Holdsworth, Halifax, England. Gill-box for preparing wool.....	610,774	Sept. 13	1143	{ 262 263	{ 84	1679
Smith, Joseph A. (See Phillips, Ross M. G., assignor.)						
Smith, Joseph A., et al. (See Fernald, James C., assignor.)						
Smith, Joseph B., Manchester, N. H. Fuse-box.....	606,771	July 5	264	55	84	53
Smith, Joseph H., Washington, D. C. Lawn-sprinkler.....	601,065	Mar. 22	2569	586	82	1761
Smith, Joseph K. (See Koelkebeck and Smith.)						
Smith, Joseph T., London, England. Puzzle.....	602,175	Apr. 12	1025	225	83	206
Smith, Leon C., Columbus, Ohio. Electric signal for railway-crossings.....	604,431	May 24	2222	497	83	1101
Smith, Libbie B., Belle Plaine, Iowa. Garden-tool.....	602,370	Apr. 12	1248	301	83	272
Smith, Lucy A. (See Manuel, David, assignor.)						
Smith, Luke, assignor of one-half to G. H. Pfeil, Easton, Pa. Milling-cutter.....	602,039	Apr. 5	780	169	83	147
Smith, Mathew. (See Steele, John R., assignor.)						
Smith, Michael H., London, England. Wheel.....	606,365	June 28	2482	{ 576 577	{ 83	1881
Smith, Michael H., London, England. Steering-handle for motor-cars.....	610,871	Sept. 13	1314	302	84	1715
Smith, Milton W., Long Island City, N. Y. Kitchen utensil.....	604,092	May 17	1591	357	83	959
Smith, Murphy F. (See Johnson and Smith.)						
Smith, Nathaniel E., Jersey City, N. J. Device for upsetting metal.....	599,266	Feb. 15	2025	480	82	1020
Smith, Nathaniel E., Jersey City, N. J. Pipe-coupling.....	599,267	Feb. 15	2026	480	82	1021
Smith, Norman J. (See Elton and Smith.)						
Smith, Orison M., Duluth, Minn., assignor of one-half to C. H. Gilman, Boston, Mass. Clamping device for supporting doors, &c.....	611,340	Sept. 27	2189	506	84	1916
Smith, Oscar L., New York, N. Y. Air-ship.....	612,808	Oct. 18	2169	516	85	440



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Smith, Otis A., administrator. (See Smith, John T.)						
Smith, Patrick J. A., Washington, D. C. Paper fastener and hanger	600,559	Mar. 15	1726	394	82	1587
Smith, Paul H., Columbus, Ohio. Trunk	604,430	May 24	2220	497	83	1101
Smith, Paul H., Columbus, Ohio. Trunk	605,143	June 7	162	40	83	1381
Smith, Paul H., Columbus, Ohio. Trunk	606,431	June 28	2613	602	83	1907
Smith, Paul H., Columbus, Ohio. Lever for operating trunk-trays.	609,563	Aug. 23	2596	606	84	1206
Smith, Peter, New York, N. Y. Aquarium	597,249	Jan. 11	1371	320	82	282
Smith, Philetus H., Wakeeney, Kans. Riveter	599,643	Feb. 22	2780	646	82	1190
Smith & Phillips Manufacturing Company. (See Phillips, Francis V., assignor.)						
Smith, Pliny B., Chicago, assignor to himself, and T. W. Snow, Batavia, Ill. Seal-lock	616,499	Dec. 27	2408	558	85	1936
Smith Premier Typewriter Company. (See Otterson, James F. J., assignor.)						
Smith, Redmon F., Gallatin, Mo. Artificial limb	612,282	Oct. 11	1223	292	85	247
Smith, Richard, Chicago, Ill. Faucet	596,634	Jan. 4	313	68	82	62
Smith, Richard A. (See Fox, Jacob G., assignor.)						
Smith, Richard H., and W. F. Tripp, Springfield, Mass. Hand printing device	600,239	Mar. 8	1153	262	82	1460
Smith, Richard W. (See Ferguson, David H., assignor.)						
Smith, Robert C., et al. (See Lobdell, Emons H., assignor.)						
Smith, Robert E., Ridgely, Md. Corn-harvester	614,904	Nov. 29	3012	690 691	85	1259
Smith, Robert F., assignor of one-half to F. Forch, Victor, Colo. Saw-handle	609,125	Aug. 16	1799	428	84	1033
Smith, Robert H., Oberlin, La. Artificial stone	613,085	Oct. 25	2645	625	85	553
Smith, Rudolph C. (See Otis and Smith.)						
Smith, Rudolph C., Yonkers, assignor of one-half to J. Cruickshank, Kingston, N. Y. Elevator	601,909	Apr. 5	553	114	83	105
Smith, Samuel H., Perryville, and H. Holborn, St. Louis, Mo. Device for pneumatically operating photographic shutters	615,315	Dec. 6	160	42, 43	85	1444
Smith, Samuel J. (See Smith, Frank S. and S. J.)						
Smith, Samuel L., West Duluth, Minn. Speed-gearing for cycles	609,170	Aug. 16	1873	446	84	1046
Smith, Sidney E. (See Moran and Smith.)						
Smith, Sidney M., San Francisco, Cal. Safety ash-receiver	601,845	Apr. 5	444	89	83	83
Smith, Sinclair, Brooklyn, N. Y. Auger-bit	597,750	Jan. 25	2226	518	82	483
Smith & Sons, Jeremiah. (See Smith, William H., assignor.)						
Smith, Stephen G., Hannibal, Mo. Bandage for umbilical cords	612,997	Oct. 25	2497	595	85	524
Smith, Stephen N., assignor to Union Eyelet Company, Providence, R. I. Machine for setting lacing-hooks	602,881	Apr. 26	2231	505	83	469
Smith, Swan, assignor of one-half to G. Everson and J. W. Masters, Brooklyn, N. Y. Paper-cutting machine	602,882	Apr. 26	2233	505 506	83	469
Smith, Thomas B. (See Jones, Smith, and Nilsson.)						
Smith, Thomas J., et al. (See Gardanier, George W., assignor.)						
Smith, Uzziel P., Chicago, Ill. Pneumatic wheel-tire	598,823	Feb. 8	1275	309	82	862
Smith, Uzziel P., Chicago, Ill. Pneumatic tire	605,523	June 14	844	197	83	1535
Smith, W. Wirt, et al. (See Boyles, Hyson, assignor.)						
Smith, Walter I., Marshall, Tex. Broom-rack	604,909	May 31	3080	707	83	1281
Smith, Walter P., Clarksville, Iowa. Corn-planter attachment	604,129	May 17	1658	372	83	971
Smith, Walter W., Detroit, Mich. Journal-box	605,757	June 14	1265	292	83	1614
Smith, Washington E. E., Liberty, N. Y. Pencil-holder	606,095	June 21	1962	451	83	1761
Smith, Watson, and E. J. Gould, Valmont, Colo. Buggy or wagon wrench	606,945	July 5	540	119	84	107
Smith & Watson Iron Works. (See Turney, Edward, assignor.)						
Smith, Wellington C. (See Vail, James B., assignor.)						
Smith, Wilbert L., trustee. (See Brown, Alexander T., assignor.)						
Smith, Willard P., et al. (See Johansson, Gustaf, assignor.)						
Smith, William, Marietta, assignor to Longfellow Bros. and R. Stephens, Macksburg, Ohio. Rotary engine	602,630	Apr. 19	1795	410	83	369
Smith, William, and E. F. Shaw, assignors to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Strainer-rod for wood-saws	607,712	July 19	2171	457	84	456
Smith, William, and G. G. Davis, Procterknott, Minn. Car-bolster	614,585	Nov. 22	2424	553	85	1132
Smith, William C. (See Nichols, Edwin C., assignor.)						
Smith, William D., Denver, Colo. Velocipede	597,073	Jan. 11	1083	256	82	227
Smith, William D. C., Kansas City, Mo. Railway transfer-ticket	601,308	Mar. 29	3028	682	82	1876
Smith, William E., assignor to himself and J. H. Adams, Telluride, Colo. Rail-joint	616,365	Dec. 20	2140	498	85	1863
Smith, William F., Cripple Creek, Colo. Automatic dumping-bucket	604,432	May 24	2224	498	83	1101
Smith, William G., et al. (See Goetze, Max, assignor.)						
Smith, William H. (See Maxwell, Samuel E., assignor.)						
Smith, William H., assignor to J. Smith & Sons, New Haven, Conn. Hasp-fastener	615,506	Dec. 6	551	126	85	1519
Smith, William L., Chicago, Ill. Incandescent gas-burner	599,809	Mar. 1	254	57	82	1261
Smith, William L., La Crosse, Wis. End-gate for wagons	600,898	Mar. 22	2294	523	82	1708
Smith, William L., and H. M. Putt, assignors of one-third to F. H. McGraw, Huntingdon, Pa. Combined latch and lock	605,253	June 7	570	126	83	1461
Smith, William M., New Cumberland, W. Va. Rail-joint	609,304	Aug. 16	2135	506	84	1100
Smith, William P., assignor of one-half to J. H. King, Raleigh, N. C. Clothes-hanger	615,918	Dec. 13	1260	295	85	1671
Smith, William S. (See Mangels, William F., assignor.)						
Smith, William S., Toronto, Canada. Bicycle-saddle	610,614	Sept. 13	869	200	84	1624
Smith, William V., and H. B. Barton, Denver, Colo. Tobacco-pipe	609,764	Aug. 23	2951	690	84	1274
Smith, William W., et al. (See Barton, Richard T., assignor.)						
Smith, William W., and J. M. Isgrig, Traverse City, Mich. Advertising device	598,028	Jan. 25	2708	632	82	575
Smith, Willoughby S., and W. P. Granville, London, England. Electric cable	597,790	Jan. 25	2307	537 538	82	497
Smith, Wilson W., Fritchton, Ind. Clothes-line	615,314	Dec. 6	159	42	85	1444
Smithson, John W. (See Ladd, Snodgrass, and Smithson.)						
Smithwick, Nathaniel A., assignor to Goulds Manufacturing Company, Seneca Falls, N. Y. Vertical suction-pump	613,730	Nov. 8	911	209	85	810
Smock, Benjamin D., Wickatunk, N. J. Means for supporting electric wires	601,357	Mar. 29	3100	700	82	1889
Smock, James, Spencer, Ind. Folding wagon-brake	608,802	Aug. 9	1138	263 264	84	897
Smooth Point Pen Company. (See Kempshall, Eleazer, assignor.)						
Smyser, Henry E., assignor to Arbuckle Brothers, New York, N. Y. Packaging-machine	609,472	Aug. 23	2433	569 570	84	1175
Smyth, Charles, assignor of one-half to L. Hyman, Dayton, Ohio. Toy savings-bank	605,064	May 31	3322	762	83	1328
Smyth, David M., Pasadena, Cal. Ore-stamp	605,615	June 14	1017	234	83	1567
Smyth, David M. and J. E., Pasadena, Cal. Ore-stamp	615,369	Dec. 6	278	64	85	1467
Smyth, Ezra, Greencastle, Ind. Switch-derailer	613,086	Oct. 25	2646	625	85	553
Smyth, Joseph, Allentown, Pa. Ash-sifter	598,962	Feb. 15	1527	363 364	82	926
Smyth, Joseph, Allentown, Pa. Head-covering	606,982	July 5	601	131	84	119
Smyth, Joseph E. (See Smyth, David M. and J. E.)						
Smyth, Samuel, Pittston, Pa. Cuspidor	612,578	Oct. 18	1739	412	85	357



## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Snapp, Charles E., Grottoes, Va. Coin-controlled vending machine .....	606,249	June 28	2272	525	83	1840
Snapp, John H., Washington, D. C. Racing harness attachment .....	599,365	Feb. 22	2239	531	82	1083
Snapp, Le Roy F., Cambridge, Mass. Trunk protector .....	611,848	Oct. 4	448	107	85	90
Snedaker, John F., Ogden, Utah Handpiece and frame for dental saws. ....	615,316	Dec. 6	164	43	85	1445
Snedeker, Charles H., assignor of one half to J. F. Knoble, Rosedale, Md. Pipe or tube cutter .....	603,662	May 10	769	170	83	766
Snedeker, James W., assignor to Page Woven Wire Fence Company, Adrian, Mich. Door-mat .....	602,608	Apr. 19	1754	400	83	362
Snell, Albion T., and C. E. Grove, assignors of one-third to A. F. Hills, London, England. Electric switch for use with electrically-propelled vehicles or locomotives, &c .....	605,023	May 31	3252	747	83	1315
Snell, Arphad, Tice, Ill. Cutting-table for plastic material .....	615,582	Dec. 6	678	156	85	1545
Snell, Arphad, Tice, Ill. Fence post .....	615,583	Dec. 6	680	157	85	1545
Snell, Henry, Pittsburg, Pa. Water-filter .....	506,592	June 28	2892	669	83	1962
Snell, Lord O., Athens, Pa. Neck-yoke coupling .....	598,029	Jan. 25	2710	632	82	575
Snelling, Jesse E., Newark, Ohio. Roller steak-hacker .....	608,160	July 26	3005	646	84	637
Snider, Gabriel F., assignor of one-half to D. and H. Koons, Abingdon, Iowa. Washing-machine .....	608,722	Aug. 9	990	228	84	870
Snider, Simeon, Palatine, Ill. Milk-cooler .....	599,644	Feb. 22	2781	647	82	1190
Snider, Walter D., and A. G. Snow, Scranton, Pa. Hub for vehicles .....	614,669	Nov. 22	2589	588	85	1161
Snodgrass, Joseph A. (See Ladd, Snodgrass, and Smithson.)						
Snoeck, Albert, Hartford, Conn. Voting-machine .....	608,922	Aug. 9	1373	325 326	84	941
Snoeck, Albert, Hartford, Conn. Voting-machine .....	608,923	Aug. 9	1381	326 327 328 329	84	942
Snoeck, Albert, New York, N. Y. Voting-machine .....	614,031	Nov. 8	1403	321 322	85	906
Snook, Frank M., Cincinnati, Ohio. Ice-cream freezer .....	597,918	Jan. 25	2514	588	82	537
Snow, Albert G. (See Snider and Snow.)						
Snow, Charles A., Lime Springs, Iowa. Clothes-pounder .....	597,533	Jan. 11	1509	353	82	310
Snow, Fred P., Lynn, Mass. Electrically-heated roll .....	607,093	July 12	869	188	84	187
Snow, Fred P., Lynn, assignor to Stanton Manufacturing Company, Boston, Mass. Bi-cycle-gearing .....	616,268	Dec. 20	1966	457	85	1828
Snow, Fred P., Lynn, assignor to Stanton Manufacturing Company, Boston, Mass. Bi-cycle-gearing .....	616,269	Dec. 20	1968	457 458	85	1829
Snow, Harlen P., assignor of one-half to F. C. Jarecki, Erie, Pa. Telephone-exchange mechanism .....	612,681	Oct. 18	1932	457 458	85	394
Snow, Levi T. (See Newell, John G., assignor.)						
Snow Steam Pump Works. (See Scott, Clarence N., assignor.)						
Snow, Theodore W. (See Smith, Pliny B., assignor.)						
Snow, William H., et al. (See Manire and Hood, assignors.)						
Snowden, Stacy H., Arcturus, Va. Draft-clevis for plows .....	613,087	Oct. 25	2647	626	85	553
Snowman, William W., assignor of one-half to H. P. Arbecam, H. W. Ladd, Boston, and W. E. Ayres, Woburn, Mass. Indicator for ships' compasses .....	616,428	Dec. 20	2253	525	85	1885
Snyder, Benjamin B., and J. J. Seldner, Baltimore, Md. Centrifugal machine .....	598,296	Feb. 1	406	95, 96	82	679
Snyder, Benjamin B., and J. J. Seldner, Baltimore, Md., assignors to Nitrogen Processing Company, New York, N. Y. Drying apparatus .....	603,612	May 3	685	153	83	733
Snyder, Charles W., Port Gibson, N. Y. Whiffletree attachment .....	610,951	Sept. 20	1450	352	84	1757
Snyder, Chastaine M., et al. (See Faulkner, John B., assignor.)						
Snyder, Daniel G., Reading, Pa. Combined step-ladder, ironing-board, and bench .....	612,878	Oct. 25	2316	551	85	486
Snyder, Frank S., Brice, Ohio. Self-adjustable bicycle-lamp .....	605,354	June 7	572	126	83	1461
Snyder, Fred B., Minneapolis, Minn. Shoe .....	612,064	Oct. 11	845	206	85	176
Snyder, Frederick T. (See Mather and Snyder.)						
Snyder, George W., et al. (See Faulkner, John B., assignor.)						
Snyder, Isaac B., et al. (See Connolly, Charles H., assignor.)						
Snyder, James A., Trenton, N. J. Elastic tire for wheels .....	608,803	Aug. 9	1140	264	84	897
Snyder, John A., and G. H. Heitzman, J., Pittsburg, Pa. Furnace .....	616,742	Dec. 27	2857	662	85	2022
Snyder, John A. L., Somis, Cal. Permutation-padlock .....	603,711	May 10	847	188	83	782
Snyder, John H., Canton, Ill. Device for holding fish-hooks .....	605,758	June 14	1266	292	83	1614
Snyder, Lyman H., Southington, Conn. Bicycle-holder .....	599,645	Feb. 22	2783	647	82	1190
Snyder, Lyman H., Bristol, Conn. Ceiling or floor plate .....	615,641	Dec. 6	786	182	85	1568
Snyder, Lyman H., and W. G. Christian, Rocky Hill, Conn.; said Christian assignor to said Snyder. Floor and ceiling plate .....	605,024	May 31	3255	748	83	1315
Snyder, O. W. (See McGuff, John J., assignor.)						
Snyder, Otis W., Lexington, Ky. Cooking-stove .....	606,846	July 5	399	85	84	80
Snyder, Robert C., Crawfordsville, Ind. Bake-pan .....	596,668	Jan. 4	371	82	82	74
Snyder, Robert M. (See Williams, John F., assignor.)						
Snyder, Samuel, et al. (See Vermilyea, Eugene, assignor.)						
Snyder, W. A. (See Thomasson, Henry A., assignor.)						
Snyder, William H. (See Dowling, Robert H., assignor.)						
Snyder, William T., assignor of one-half to J. W. Fuller, Catasauqua, Pa. Self-lubricating car-wheel .....	603,291	May 3	79	20	83	617
Snyder, William T., assignor of one-half to J. W. Fuller, Catasauqua, Pa. Self-lubricating car-wheel .....	603,292	May 3	80	21	83	617
Snyder, William T., assignor of one-half to J. W. Fuller, Catasauqua, Pa. Car-wheel .....	610,501	Sept. 6	680	152	84	1570
Soames, Alfred, assignor to Davies Motor Company, Limited, London, England. Construction of dynamo-electric machinery .....	598,540	Feb. 8	809	193 194	82	773
Sobey, William, assignor to J. I. Case Plow Works, Racine, Wis. Ball-bearing .....	612,879	Oct. 25	2318	552	85	487
Society Akciova Spolecnost Strojirny Drive Breitfeld, Danek & Spol. (See Proks, Karel, assignor.)						
Société Anonyme d'Exploitation des Brevets Reuse aux Etats Unis d'Amerique. (See Reuse, Jean, assignor.)						
Société Anonyme l'Exploitation des Brevets Reuse aux Etats Unis d'Amerique. (See Reuse, Jean, assignor.) (Reissue.)						
Société Anonyme pour la Transmission de la Force par l'Électricité. (See Hutin and Leblanc, assignors.)						
Société Anonyme pour la Transmission de la Force par l'Électricité. (See Leblanc, Maurice, assignor.)						
Société Chimique des Usines du Rhône, Anciennement Gilliard P. Monnet et Cartier. (See Monnet, Pierre P., assignor.)						
Société de la Manufacture d'Indiennes Emile Zundel. (See Binder, Felix, assignor.)						
Société Nouvelle des Établissements Decauville Aîné. (See Ravenéz, Louis W., assignor.)						
Société Internationale Telescriptor Syndicat. (See Hoffmann, Bernhard, assignor.)						
Society of Chemical Industry. (See Schmid, Jakob, assignor.)						
Soderlund, Gustive A., Somerville, Mass. Hot and cold water faucet .....	601,718	Apr. 5	187	36	83	37



*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'gt.	Vol.	Page.
Soderquist, Ernst F., and F. A. McAdams, Hartford, Conn. Antirefillable bottle .....	600,560	Mar. 15	1727	394	82	1587
Soelberg, Georg B., Copenhagen, Denmark. Elastic inlay for backs of books .....	598,185	Feb. 1	199	46	82	640
Soellner, Herman, Rochester, N. Y. Windmill .....	607,774	July 19	2268	479 480	84	475
Soffield, William J. (See Grube, Aaron C., assignor.)						
Sohlman, Johannes, Wiborg, Finland, assignor to Aktiebolaget de Laval's Angturbin, Stockholm, Sweden. Dynamo-electric machine .....	597,090	Jan. 11	1119	264	82	234
Soldan, John J., New York, N. Y. Hat-fastener .....	608,529	Aug. 2	636	143	84	781
Soley, Frank. (See Jackson and Soley.)						
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock .....	601,085	Mar. 22	2595	592	82	1766
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock .....	601,086	Mar. 22	2596	592	82	1766
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock .....	601,087	Mar. 22	2598	592	82	1766
Solodovnikoff, Valerian, St. Petersburg, Russia. Locking device for gun-barrels .....	604,273	May 17	1920	429 430	83	1023
Solvay Process Company. (See Fryer, George G., assignor.)						
Sombaty, Alexander. (See Sombaty, Daniel and A.)						
Sombaty, Daniel and A., Euclid, Ohio. Horseshoe .....	607,713	July 19	2172	457	84	456
Somerset Stove Foundry Company. (See Fuller, Cornelius, assignor.)						
Somerville, Jason C., <i>et al.</i> (See Morse, Frederick H., assignor.)						
Sommer, Fritz. (See Hönings and Sommer.)						
Sommer, John. (See Sommer, Peter, J., and P. W.) (Reissue.)						
Sommer, Peter, J., and P. W., Tremont, Ill. Machine for making wire fencing. (Re-issue) .....	11,658	Mar. 29	3531	805 806	82	1974
Sommer, Peter W. (See Sommer, Peter, J., and P. W.) (Reissue.)						
Sonander, Anderson, assignor of one-half to J. A. Hagberg, Chicago, Ill. Sliding vise .....	597,334	Jan. 11	1510	353	82	311
Sonde, Louis O., Northwood, N. D. Corn-planter .....	612,551	Oct. 18	1686	400 401	85	348
Sonder, Herman J., Chicago, Ill. Tufting-machine .....	611,849	Oct. 4	451	107 108	85	90
Sondheimer, Joseph, <i>et al.</i> (See Cline, William, assignor.)						
Songer, Frederic W., Alcott, Colo. Tack-holder .....	602,146	Apr. 12	971	212	83	195
Sonneborn, George H., trustee. (See Johnston, Samuel, assignor.)						
Sonneborn, Moses S., <i>et al.</i> (See Wetzler, Leo, assignor.)						
Sonneborn, William, Philadelphia, Pa. Carpet-fastener .....	597,514	Jan. 18	1835	424	82	391
Sonntag, Edwin C., Davilla, Tex. Bed-slat fastener .....	609,126	Aug. 16	1799	429	84	1033
Sooy, Ephraim C., Kansas City, Mo. Dry separator for auriferous material .....	598,963	Feb. 15	1528	364	82	926
Sooy, Ephraim C., Kansas City, Mo. Baling-press .....	614,140	Nov. 15	1605	368	85	967
Soper, Frank, assignor of one-half to C. A. McClees, Denver, Colo. Ore-concentrator .....	600,096	Mar. 1	862	198	82	1383
Sörensen, Jens C. P., Skanderborg, Denmark. Sail for windmills .....	596,553	Jan. 4	161	37	82	33
Sörensen, Niels G., Stockholm, Sweden. Packing-box .....	602,276	Apr. 12	1191	262	83	239
Sorensen, S. N. (See Hatleli, Ole O., assignor.)						
Sörensen, Sören P., Veile, assignor of one-half to P. W. Heyman, Copenhagen, Denmark. Cattle-food and making same .....	609,057	Aug. 16	1662		84	1010
Sorenson, John G., Davenport, Iowa. Switch stand and lock .....	598,751	Feb. 8	1170	281	82	841
Sorenson, John G., Davenport, Iowa. Switch-stand .....	609,473	Aug. 23	2437	571	84	1176
Sosnowski, John F., Wadmalaw Island, S. C. Axle .....	598,717	Feb. 8	1121	270	82	832
Sotolongo, Tomas E. de. (See Russell, William M., assignor.)						
Sotolongo, Tomas E. de, New York, N. Y. Furnace for boilers of locomotive type .....	608,161	July 26	3007	647	84	638
Souers, Theodore. (See Frost, Souers, and Cooledge.)						
Soule, Welling C., Savannah, N. Y. Locking device for connecting-bolts of drive-chains .....	611,950	Oct. 4	617	150	85	121
Soule, William S., Boston, Mass. Trunk-fastener .....	596,795	Jan. 4	599	139	82	115
Souleyret, Jerome C., Parkers Lake, Ky. Mine-draining siphon .....	599,366	Feb. 22	2241	531	82	1083
Southall, Robert H., Leeds, England. Tire and wheel for bicycles .....	611,715	Oct. 4	222	55	85	46
Southard, George, Indianapolis, Ind. Envelop .....	606,366	June 28	2484	577	83	1881
Southard, William D., Peekskill, N. Y. Stove-body fastening .....	608,347	Aug. 2	328	72	84	721
Souther, Alsom. (See Raiza and Souther.)						
Southey, Alfred W. (See Clubbe and Southey.)						
Southey, Alfred W., London, England. Steering-wheel for motor-vehicles .....	613,399	Nov. 1	343	79	85	681
Southgate, Louis W., Worcester, Mass., assignor to Campbell Printing Press and Manufacturing Company, of New York. Mechanical movement .....	606,096	June 21	1963	451 452	83	1761
Southgate, Philip W., Worcester, Mass., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine .....	605,610	June 14	1018	234 235	83	1567
Southington, Thomas W., assignor of one-half to J. T. Mitchell, Locust Valley, N. Y. Baby-support .....	598,164	Feb. 1	153	36	82	632
Southern, Charle. (See Armour and Southern.)						
Southwark Foundry and Machine Company. (See Helander and Lindroth, assignors.)						
Southworth, Horatio W., New York, N. Y. Lint-cotton cleaner and condenser .....	597,751	Jan. 25	2227	518	82	484
Souza, Antoine J. P. de, Paris, France. Traction-motor .....	609,196	Aug. 16	1916	456	84	1054
Sovereign, Clarence E. (See Doyle, Michael V., assignor.)						
Sovereign, George E., Pottersville, N. J. Shaft-bearing .....	615,507	Dec. 6	551	126	85	1519
Sowers, Franklin K., G. L. Vail, and L. M. Petitdidier, Denver, Colo. Apparatus for de-aerating water .....	598,470	Feb. 1	685	167	82	732
Sowers, Ossa. (See Johnston and Sowers.)						
Space, Irving J. (See Kissell and Space.)						
Spacke, Fred W., Indianapolis, Ind. Governor .....	605,684	June 14	1148	266 267	83	1591
Spaid, Charles F., Lehigh, W. Va. Bootjack .....	611,043	Sept. 20	1614	369	84	1787
Spalckhaver, William, Brooklyn, assignor to E. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Means for securing registry of associated sheets .....	597,696	Jan. 18	2136	499	82	448
Spalding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer depth-gage .....	597,335	Jan. 11	1511	354	82	31.
Spang, Anthony V., New Haven, Conn. Convertible running-gear for vehicles .....	605,759	June 14	1267	293	83	1614
Spang, Anthony V., New Haven, Conn. Pole-support for vehicle running-gear .....	613,088	Oct. 25	2649	626	85	553
Spangler, Henry C., Harrisburg, Pa. Car-fender .....	597,864	Jan. 25	2433	566	82	522
Spangler, John H., Pittsburg, Pa. Automatic switch-operating machine .....	607,893	July 26	2539	538	84	545
Spangler, William F., Mount Union, Pa. Chair-seat .....	607,894	July 26	2541	539	84	545
Spanier, Waldemar H., assignor of one-half to J. W. Maher, Devil's Lake, N. D. Grubbing-machine .....	614,510	Nov. 22	2300	527	85	1109
Sparks, Ishmael, Santa Fé, N. Mex. Ter. Telephone box or cabinet .....	613,533	Nov. 1	572	120	85	724
Sparks, James H., Hobbieville, assignor of one-half to A. F. Mood, Buena Vista, Ind. Fence-post .....	605,355	June 7	572	126	83	1461
Sparks, John H. (See Reed, Adam, assignor.)						
Sparks, John H. (See Smith and Batcheller, assignors.)						
Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Pin-lock .....	559,367	Feb. 22	2241	532	82	1084
Sparks, William H., Camden, N. J., assignor of one-half to J. Roberts, Philadelphia, Pa. Bicycle .....	600,046	Mar. 1	762	173	82	1363



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Sparks, William H., Camden, N. J., assignor of one-half to J. Roberts, Philadelphia, Pa. Bicycle-brake.	616,429	Dec. 20	2254	525	85	1885
Sparr, Erick E., St. Paul, Minn. Dish-cleaner	600,182	Mar. 8	1063	240	82	1442
Spaulding, Algenon S., Bloomsburg, Pa. Flexible door	615,464	Dec. 6	463	108 109	85	1501
Spaulding Brothers Company. (See Chandler, Daniel L., assignor.)						
Spaulding, George W. (See Johnson and Spaulding.)						
Spaulding, Waldo. (See Frossard, John, assignor.)						
Speaker, Elwyn, Egan City, Ill. Window-screen	604,799	May 31	2885	659	83	1244
Speaker, George F., Covington, Ky. Tobacco or other packing box	596,635	Jan. 4	314	68	82	62
Speakman, William M. (See Fritz, Charles P., assignor.)						
Spear, Fred H., Burlington, Vt. Self-oiling pulley	605,980	June 21	1739	400	83	1720
Spears, Ralph R., Wheeling, W. Va. Machine for turning carriage-axles	615,919	Dec. 13	1263	295 296	85	1671
Speckard, George C., St. Louis, Mo. Folding chicken-coop	596,723	Jan. 4	476	109	82	92
Speckenbach, Otto, assignor of one-half to A. Trieb, New York, N. Y. Fender for trolley-cars	599,920	Mar. 1	464	105	82	1301
Speed Indicator Company. (See Milner and Wilson, assignors.)						
Speed, Silas, Barron, Wis. Thill-coupling	601,175	Mar. 22	2749	631	82	1795
Speer, Edward D., Providence, Md., assignor of one-half to W. M. Singerly, Philadelphia, Pa. Apparatus for beating and cleaning wood-pulp	597,752	Jan. 25	2231	519	82	484
Speer, Robert G., St. Louis, Mo. Carbureter	610,159	Aug. 30	3632	844	84	1425
Speer, William H., Martinsville, Miss. Plant-support	601,782	Apr. 5	310	61	83	59
Speice, George, Paulding, Ohio. Rotary steam-engine	600,561	Mar. 15	1729	394 395	82	1588
Spellmeyer, Otto, St. Louis, Mo. Washing-machine	599,023	Feb. 15	1638	387 388	82	948
Spelman, Byron T., Jacksonville, Ill. Grain-drill	605,524	June 14	845	198	83	1535
Spelman, Denis, National Home, Wis. Hat-hanger	609,058	Aug. 16	1663	396	84	1010
Spencer, Charlie F., Alexandria Bay, N. Y. Paint-pot hook and brush-holder	604,549	May 24	2449	556	83	1140
Spencer Electrical Co. (See Spencer and Keyes, assignors.)						
Spencer, Elmer E., Meriden, Conn. Stamp-handle	616,500	Dec. 27	2410	558	85	1936
Spencer, George O., Manchester, N. H. Car-fender	604,910	May 31	3081	707	83	1281
Spencer, Hadley J., Port Chester, N. Y. Boiler for steam heating apparatus	601,818	Apr. 5	371	78	83	70
Spencer, Ira H., assignor to L. E. Rhodes Company, Hartford, Conn. Water-motor	612,596	Oct. 18	1766	417	85	362
Spencer, James H., and M. S. Keyes, assignors to Spencer Electrical Co., New York, N. Y. Telephone-transmitter						
Spencer, James W., Providence, R. I. Wool-drier	596,834	Jan. 4	667	154	82	129
Spencer, John E., Salem, Mass. Hydraulic lubricator	605,025	May 31	3256	748	83	1316
Spencer, Richard M., San Francisco, Cal. Box-cover	602,371	Apr. 12	1349	301	83	272
Spencer, Richard M., San Francisco, Cal. Window-screen	598,581	Feb. 8	879	210	82	788
Spencer, Robert, Evanston, Ill. Luggage-carrier for bicycles	614,511	Nov. 22	2302	527	85	1110
Spencer, Thomas, Philadelphia, Pa. Electric-arc lamp	596,636	Jan. 4	315	68	82	62
Spencer, William B., Chicago, Ill. Apparatus for making decoctions and infusions	608,723	Aug. 9	991	228	84	870
Spencer, William B., Chicago, Ill. Bicycle attachment	598,447	Feb. 1	648	160	82	726
Spencer, William B., Chicago, Ill. Spring-support	608,235	Aug. 2	116	29	84	677
Spencer, William L., Admire, Kans. Runner for seed-planters	612,682	Oct. 18	1937	458	85	395
Spengler, Charles W., Jeffersonville, Ohio. Wheel-wrench	604,800	May 31	2887	660	83	1244
Sperry, Arthur D., Hamilton, Mont. Combination plow and harrow	603,156	Apr. 26	2712	616 617	83	561
Sperry, Edwin S., Warehouse Point, and H. W. Olmsted, Hartford, Conn. Means for mending punctures in rubber tires	604,274	May 17	1922	430	83	1023
Sperry, Elmer A., Cleveland, Ohio. Motor-vehicle	612,145	Oct. 11	978	237	85	201
Sperry, John E., Munnsville, N. Y. Weeder	616,153	Dec. 20	1732	401 402	85	1779
Spicer, Pratt A., Marshall, Mich. Plow	610,003	Aug. 30	3390	786	84	1374
Spicer, Pratt A., Marshall, Mich., assignor of one-half to A. M. Ziegler, Boston, Mass. Plow	614,032	Nov. 8	1409	323	85	908
Spicer, Vibe K., Kenilworth, Ill., assignor to Union Switch and Signal Company, Swissvale, Pa. Signaling apparatus	614,067	Nov. 8	1465	337	85	919
Spicer, Vibe K., Kenilworth, Ill., assignor to Union Switch and Signal Company, Swissvale, Pa. Signaling apparatus	600,384	Mar. 8	1387	317	82	1504
Spickermann, Christian, Sandwich, Ill. Door-mat	600,385	Mar. 8	1389	317 318	82	1504
Spielman, Mary E., Alma, Kans. Book-holder	612,065	Oct. 11	846	206	85	176
Spies, Gustav A., Irwin, Pa. Fountain-pen	603,663	May 10	770	171	83	766
Spieth, William F. (See Hiteshew and Spieth.)	603,833	May 10	1079	241	83	825
Spiker, William C., Cadiz, Ohio. Handle-bar attachment for bicycles	614,774	Nov. 22	2767	632	85	1198
Spiller, Arthur P., Manchester, N. H. Storm-window fastener	604,945	May 31	3125	718	83	1291
Spillinger, Joseph, Philadelphia, Pa. Roll-paper holder	599,646	Feb. 22	2784	647	82	1190
Spindler, Alvin C. (See Weills, Isaac M., assignor.)						
Spinelli, Luigi A. (See Martin and Spinelli.)						
Spinelli, Luigi A. (See Shields, Spinelli, and Martin.)						
Spining, Edward M., Cincinnati, Ohio. Non-refillable bottle	596,969	Jan. 4	896	211	82	175
Spining, Edward M., Cincinnati, Ohio. Metal lath	598,582	Feb. 8	880	210	82	788
Spink, Fenton E., Cleveland, Ohio. Exercising device	605,237	June 7	332	77	83	1414
Spitzenberg, Georg K., Tharandt, Germany. Marking-cord	603,157	Apr. 26	2714	617	83	561
Spitzenberg, Georg K., Eisenach, Germany. Seed-planter	609,305	Aug. 16	2137	506	84	1100
Spitzenberg, Georg K., Eisenach, Germany. Apparatus for cultivating the soil	614,512	Nov. 22	2304	528	85	1110
Spitzmiller, John, assignor of one-half to H. D. Williams, Poplar Bluff, Mo. Speed-indicator	613,731	Nov. 8	914	210	85	811
Spoerl, Christian S. E., and J. Haubrich, Scranton, Pa.; said Haubrich assignor to said Spoerl. Machine for making tufted fabric	615,761	Dec. 13	993	232	85	1620
Spoon, William L., Jr., Burlington, N. C. Apparatus for cooling liquids	599,202	Feb. 15	1921	454	82	1000
Spooner, Archibald F., and J. H. Cass, Richville, N. Y. Harvester-elevator	611,521	Sept. 27	2533	585	84	1980
Spoore, M. Ella, et al. (See Spoore, Ransom R., assignor.)						
Spoore, Ransom R., assignor of three-fourths to M. E. Spoore, Newark, and J. M. Raub, Brooklyn, N. Y. Fence-post	599,303	Feb. 15	2096	496	82	1033
Spraggins, John C., New Orleans, La. Transferable show-case	603,210	Apr. 26	2794	638	83	576
Sprague, Archidell N., Westfield, Mass. Filter	603,834	May 10	1080	241	83	826
Sprague, Austin V. M., Brooklyn, N. Y. Therapeutical apparatus	601,684	Apr. 5	108	21	83	23
Sprague & Co. (See Sprague, Watson N., assignor.)						
Sprague, Edwin L. (See Stevenson, Daniel W., assignor.)						
Sprague Electric Company. (See Bergmann, Sigmund, assignor.)						
Sprague, James H., Norwalk, Ohio. Support for wagon or buggy tops	606,773	July 5	266	56	84	54
Sprague, John L., New Hartford, Iowa. Mop-wringer	609,710	Aug. 23	2876	672	84	1260
Sprague, Watson N., Greenwich, assignor to Sprague & Co., Middle Falls, N. Y. Shank for boots or shoes	603,367	May 3	207	47	83	641



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Spratt, Frank D., <i>et al.</i> (See Nelson, Nelson P., assignor.)						
Sprecher, John M., Ephrata, Pa. Air-heating radiator	609,595	Aug. 23	2654	620	84	1217
Sprigel, Marcus J., assignor of one-half to J. D. Updegrave, Easton, Pa. Reclining-chair	610,925	Sept. 20	1399	320	84	1747
Spriggs, Thomas, Little River, Kans. Wrench	606,690	July 5	97	21	84	21
Spring, Samuel. (See Imhof and Spring.)						
Springborn, Richard, Cleveland, Ohio. Instructing device	605,144	June 7	162	40	83	1381
Springer, Amos W., Leando, Iowa. Corner-iron for vehicle-bodies	607,490	July 19	1780	370	84	385
Springer, Clifton F., Chicago, Ill., assignor to T. K. Heinsohn, Muncie, Ind. Car-coupling	599,977	Mar. 1	554	128	82	1318
Springer, George W., Indianapolis, Ind. Antirattling thill-coupling	610,835	Sept. 13	1248	288	84	1701
Springer, Henry J., Edwardsville, Ill. Cuspidor	615,111	Nov. 23	3424	785	85	1338
Springer, Lorin C., Chicago, Ill. Pipe-wrench	602,590	Apr. 19	1721	392	83	355
Springer, Narcissa S., Cleveland, Ohio. Adjustable shoe-fitting chair	606,691	July 5	98	21	84	22
Springer, Nelson R., Dixfield, Me. Wood-turning lathe	599,268	Sept. 27	2535	585	84	1981
Springer, Whildin, South Creek, N. C. Sawmill-carriage	615,587	Dec. 6	685	158	85	1546
Springer, William F., Edwardsville, Ill. Flower-pot drainer	611,523	Sept. 27	2538	586	84	1981
Springfield Metallic Casket Company. (See Hiser and Lupfer, assignors.)						
Springfield Silver Plate Company. (See Reama, Washington H., assignor.)						
Springsteen, Myron H., assignor of one-half to N. A. Parker, Frankfort, Mich. Photographic view-finder	613,430	Nov. 1	401	92	85	693
Springsteen, Nelson E., Royal Oak, Mich. Ticket-case	605,301	June 7	468	106	83	1440
Springville Manufacturing Company. (See Eastwood, John E., assignor.)						
Sprinkle, O. C., <i>et al.</i> (See Bonham, William P., assignor.)						
Sprouts, Robert A., assignor to D. M. Cobb, New York, N. Y. Surface condenser	609,243	Aug. 16	2018	479	84	1077
Sprout, James M., Muncy, Pa. Dry-kiln	610,100	Aug. 30	3540	821	84	1405
Spruin, William, and J. Barnett, Rochester, N. Y. Culinary beater	599,268	Feb. 15	2028	481	82	1021
Spruner-Mertz, Victor de, Brussels, Belgium. Globe for incandescent lamps	605,026	May 31	3257	748	83	1316
Sprung, John W., Reading, Ohio. Washing-machine	601,484	Mar. 29	3312	749	82	1930
Spry, Benjamin F., Des Moines, Iowa. Horseshoe	615,317	Dec. 6	164	43	85	1445
Spurck, Charles J., Peoria, Ill. Corn-planter	611,652	Oct. 4	106	26, 27	85	24
Spurlin, Crawford, Denison, Tex. Ventilating-canopy for cook stoves or ranges	603,386	May 3	241	54	83	647
Spurr, Charles W., Jr., Brooklyn, assignor to Hot Appliances Company, New York, N. Y. Hot appliance	602,810	Apr. 19	2116	477	83	430
Spurrier, Harry, Montreal, assignor of one-half to C. W. Pearson, Westmount, Canada. Retort	612,181	Oct. 11	1042	250	85	213
Squire, John B., London, England. Support for ends of railway-rails	605,145	June 7	163	41	83	1382
Squires, Arthur C., Brooklyn, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Machine for making skirt-facings	597,074	Jan. 11	1084	256	82	227
Squires, Charles W., Springfield, Mass. Electromechanical switch-operating mechanism	597,472	Jan. 18	1765	409	82	377
Squires, Charles W., Springfield, Mass. Railway-switch-operating mechanism	602,667	Apr. 19	1873	426	83	385
St. Charles Car Company. (See Udstadt, Sigvald, assignor.)						
St. Clair, Mike. (See Weaver, John R., assignor.)						
St. John, Gamaliel C., New York, N. Y. Steam-meter	599,746	Mar. 1	123	28	82	1239
St. John, Garland B., Kalamazoo, Mich. Wire-fence machine	597,442	Jan. 18	1714	396	82	366
St. John, John C., Boston, Mass., assignor to Flagg Manufacturing Company, Portland, Me. Indicator for stringed musical instruments	614,775	Nov. 22	2769	632	85	1198
St. John, Thomas M., New York, N. Y. Game apparatus	606,744	July 5	201	43	84	41
St. John, William W., assignor of one-half to S. A. Byron, Binghamton, N. Y. Clothes-line	598,878	Feb. 8	1372	330	82	881
St. John, William W., assignor of one-half to S. A. Byron, Binghamton, N. Y. Key-fastener	607,807	July 19	2355	497	84	492
St. Louis Car Wheel Company. (See Magee, Alexander, assignor.)						
St. Louis Paper Box Company. (See Schleicher, Frank J., assignor.)						
St. Louis Stamping Company. (See Niedringhaus, Fredrick G., assignor.)						
St. Louis Stamping Company. (See Niedringhaus, William F., assignor.)						
St. Louis, Thomas J., West Superior, Wis. Log-hauler	600,749	Mar. 15	2046	467	82	1649
Stacey, Richard D. (See Davidson and Stacey.)						
Stadel, John M., Wilmington, Del. Fish-hook	608,348	Aug. 2	329	72	84	721
Stadel, John M., assignor of two-thirds to J. T. Ahrens and W. M. Byrne, Wilmington, Del. Closure for jars or the like	599,269	Feb. 15	2029	481	82	1021
Stader, Christian, San Francisco, Cal. Sweat-band for hats	608,724	Aug. 9	995	229	84	870
Stadtfeld, Charles, assignor of one-half to G. Driggs, Dayton, Ohio. Street-railway switch	601,359	Mar. 29	3103	701	82	1890
Stafford, Charles, assignor of one-third to E. Stafford, Chicago, Ill. Device for converting motion	614,141	Nov. 15	1609	368 369	85	967
Stafford, Edward. (See Stafford, Charles, assignor.)						
Stafford, Norman, Canastota, N. Y. Rake	597,919	Jan. 25	2516	589	82	538
Stagg, William, Bristol, assignor to Thomas Glover & Company, Limited, London, England. Pressure or vacuum gage	598,030	Jan. 25	2711	632 633	82	575
Staggs, Alex., <i>et al.</i> (See Anderson, Lee, assignor.)						
Stagman, Harrison E., and H. C. Jones, Cincinnati, Ohio. Nut-lock	602,919	Apr. 26	2306	525	83	482
Stahl, Charles. (See Harris and Stahl.)						
Stahl, Harry E., Trenton, N. J. Sprocket-chain	608,530	Aug. 2	637	143	84	781
Stahl, Oliver E., Baltimore, Md. Automatic car-fender	600,183	Mar. 8	1065	240 241	82	1442
Stahl, Rudolph F., Boston, Mass., assignor to Rochester Bunting Apparatus Company, Rochester, N. Y. Tap for barrels or casks	600,501	Mar. 8	1623	371	82	1548
Stahlman, Orison U., North Baltimore, Ohio. Pumping-jack	602,482	Apr. 19	1542	350 351	83	323
Staib, Henry, New York, N. Y. Window frame and sash	608,084	July 26	2878	616	84	614
Staley, Edwin H., Burt, Iowa. Steam heater and cooker	607,631	July 19	2085	422	84	431
Staley, James, assignor of one-half to R. H. Skelton, Scottsborough, Ala. Horse-detacher	603,434	May 3	331	74	83	663
Stallings, Francis J., assignor of one-half to C. Boos, Effingham, Ill. Buggy-top supporter	615,508	Dec. 6	553	126	85	1519
Stallman, Ferdinand G., Philadelphia, Pa. Type-writing machine	606,743	July 5	188	42, 43	84	38
Stanbury, Arthur H., Jr., Liverpool, England. Brush for cleaning cycle-chains	616,593	Dec. 27	2559	592	85	1963
Stamp, John, Carrollton, Ky. Top-spinner	599,481	Feb. 22	2468	581	82	1127
Stampacchia, Luigi, Bologna, Italy, assignor to E. G. Fabbri, New York, N. Y. Apparatus for manufacturing closed-ended vessels	601,738	Apr. 5	224	44	83	43
Stamper, James I., Meade, Kans. Grain-drill	607,964	July 26	2658	567	84	567
Stanbon, Charles P., Lynn, Mass. Channel-flap-turning machine	607,139	July 12	947	206	84	201
Stanbon, Charles P., Lynn, Mass. Channeling-machine	607,140	July 12	949	206	84	201



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Standard Buffing Machine Company. (See Keavey, Thomas E., assignor.)						
Standard Circular Cotton Company. (See Anderson, William E., assignor.)						
Standard Coupler Company. (See Sessions, Henry H., assignor.)						
Standard Electro Galvanizing Company. (See Wright, Walter, assignor.)						
Standard Filter Company. (See Chandler, John A., assignor.)						
Standard Furniture Company. (See Hemstreet, John V., assignor.)						
Standard Gas Company of America. (See Hastings, James L., assignor.)						
Standard Harrow Company. (See Babcock, Henry D., assignor.)						
Standard Harrow Company. (See Whipple, Effinger E., assignor.)						
Standard Lithographing Company of the City of New York. (See Cowles, Arthur B., assignor.)						
Standard Machinery Company. (See Briggs, Thomas A., assignor.)						
Standard Machinery Company. (See Briggs and Cross, assignors.)						
Standard Oil Company. (See Emerick, Frederick A., assignor.)						
Standard Oil Company. (See Emerick and Craley, assignors.)						
Standard Oil Company of New York. (See Campbell, Harry C., assignor.)						
Standard Pump and Filter Company. (See Stark, William F., assignor.)						
Standard Radiator Manufacturing Company. (See McKeown, William C., assignor.)						
Standard Seamless Wire Company. (See Smith, Henry T., assignor.)						
Standard Sewing Machine Company. (See Mack, William A., assignor.)						
Standard Tobacco Stemmer Company. (See Coffee, Robert W., assignor.)						
Standard Voting Machine Company. (See Weitz, August P., assignor.)						
Standard Water Meter Company. (See Marsh, William H., assignor.)						
Standard Weldless Tube and Cycle Components. (See Chillingworth, Rudolf, assignor.)						
Standeford, William B., Denver, Colo. Pneumatic bicycle-saddle	612,552	Oct. 18	1688	401	85	349
Standiford, David C., Baltimore, Md. Milk refrigerating and delivery apparatus	611,653	Oct. 4	109	27	85	24
Stanek, Lucian, Boston, Mass. Puzzle	616,208	Dec. 20	1838	425	85	1802
Stanek, Lucian, Boston, Mass. Trap	616,209	Dec. 20	1838	425	85	1802
Stanford, Edward C. C., Dalnuir, Scotland. Product from thyroid glands and making same	616,501	Dec. 27	2411		85	1936
Stanford, Leland E., assignor of two-thirds to J. Grether and J. E. Stehle, Akron, Ohio. Liquid-seal trap	616,025	Dec. 13	1468	343	85	1712
Stanley, Adlia C. (See Biggs, George F., assignor.)						
Stanley Electric Manufacturing Company. (See Kelly, John F., assignor.)						
Stanley, F. F., et al., trustees. (See Ashton, Orrell, assignor.)						
Stanley, Frank F., et al., trustees. (See Casgrain, Louis A., assignor.)						
Stanley, Frederick P., Cicero, assignor to H. D. Cosby, Chicago, Ill. Bicycle-brake	597,031	Jan. 11	1000	236	82	210
Stanley, George W., Elkhart, assignor of one-half to J. Eger, Mishawaka, Ind. Permutation-padlock	611,982	Oct. 4	671	163	85	131
Stanley, Henry F., New Orleans, La. Refrigerator-car	602,483	Apr. 19	1544	351	83	323
Stanley Instrument Company. (See Stanley, William, assignor.)						
Stanley Instrument Company. (See Stanley and Darlington, assignors.)						
Stanley, James, Newark, N. J. Horseshoe-pad	597,549	Jan. 18	1885	437	82	401
Stanley, James N., New Britain, Conn. Cutlery-handle	612,619	Oct. 18	1829	434	85	375
Stanley, Oramel C., assignor of two-thirds to C. W. Morrison and J. J. McKinley, Philadelphia, Pa. Pipe-wrench	607,288	July 12	1231	263	84	254
Stanley, William, Pittsfield, Mass., assignor to General Electric Company, of New York. Alternating-current motor	599,810	Mar. 1	256	57	82	1261
Stanley, William, Pittsfield, Mass., assignor to Stanley Instrument Company, of Massachusetts. Electrical apparatus	603,515	May 3	508	110 111	83	699
Stanley, William, Pittsfield, and F. Darlington, Great Barrington, Mass., assignors to Stanley Instrument Company, of Massachusetts. Electric meter	606,795	July 5	302	63	84	60
Stanley, William L., and P. C. Patterson, Cambridge, Ohio. Pastry-board	616,366	Dec. 20	2141	498	85	1863
Stanley Works. (See Corscaden, Thomas, assignor.)						
Stanley Works. (See Hart, William H., assignor.)						
Stansbury, Fremont, Denver, Colo. Boring-bar device for lathes	603,293	May 3	81	21	83	617
Stansbury, Joseph A., Chicago, Ill. Hame lock or fastener	598,464	Feb. 1	676	165	82	731
Stanton, Henry, Flushing, assignor of two-thirds to H. Kirk, M. Aldredge, and C. L. Weems, St. Clairsville, Ohio. Steam-boiler and furnace	601,358	Mar. 29	3101	700 701	82	1890
Stanton, John C., et al. (See Bean and Watson, assignors.)						
Stanton Manufacturing Company. (See Snow, Fred P., assignor.)						
Stanton, Thomas J., Little Rock, Ark. Sand-box	610,590	Sept. 13	837	191 192	84	1617
Stanton, William H., Scranton, Pa. Mold for making glass tubes	613,089	Oct. 25	2651	626	85	554
Staples, Charles A. (See Heisel, Henry, assignor.)						
Staples & Hanford. (See Jackson, John H., assignor.)						
Staples, John A., Newburg, N. Y. Wagon-jack	608,011	July 26	2762	587	84	590
Staples, John A., Newburg, N. Y. Support for springs	616,502	Dec. 27	2414	559	85	1937
Staples, John A., and C. Bush, assignors to C. H. Hanford, Newburg, N. Y. Nail-machine	602,024	Apr. 5	752	162	83	142
Staples, Nathan E. (See Barbour, Charles C., assignor.)						
Staps, Herman C. (See Kirchmer, Jacob, Jr., assignor.)						
Starck, Halvar, Davenport, Iowa. Non-refillable bottle	610,311	Sept. 6	326	70	84	1504
Star Electric Company. (See Beach and Doughty, assignors.)						
Stark, Andrew, Chicago, Ill. Fiber vessel	609,525	Aug. 23	2529	592	84	1194
Stark, August, assignor to A. Nehmann, Weiden, Germany. Lubricator	616,270	Dec. 20	1970	458	85	1829
Stark, Ernst P., Markneukirchen, Germany. Reed-plate for tongued instruments	615,112	Nov. 29	3425	786	85	1339
Stark, Frank G., St. Louis, Mo. Nut-lock	600,097	Mar. 1	864	199	82	1383
Stark, George. (See Kohler, Alois, assignor.)						
Stark, John P., Iconium, Mo. Punching-machine	608,725	Aug. 9	996	229	84	870
Stark, John W., and G. N. Doyle, West Nicholson, Pa. Grain-elevator	611,044	Sept. 20	1615	370	84	1787
Stark, William F., New York, N. Y., assignor to Standard Pump and Filter Company, of New Jersey. Hydraulic air-compressor	602,247	Apr. 12	1143	251	83	230
Stark, William H., assignor to J. J. Manning, trustee, Toledo, Ohio. Dust-guard for hose-couplings	600,386	Mar. 8	1391	318	82	1505
Starke, Eric A., San Rafael, Cal. Purifying and refining California petroleum-oils	597,920	Jan. 25	2517		82	538
Starke, Eric A., San Rafael, Cal. Compound nitrate and making same	599,743	Mar. 1	120		82	1239
Starkey, Edwin H. (See Schultz and Starkey.)						
Starks, Nils O., assignor to Fuller & Johnson Manufacturing Company, Madison, Wis. Cultivator	602,779	Apr. 19	2049	464	83	419
Starks, Nils O., assignor to Fuller & Johnson Manufacturing Company, Madison, Wis. Cultivator	604,130	May 17	1660	372 373	83	972
Starkwether, Edward, Saginaw, Mich. Combined lawn-rake, scraper, and cutter	599,368	Feb. 22	2242	532	82	1084
Starr, Charles E., Jr., assignor to W. E. Harrington, Camden, N. J. Sign	603,092	Apr. 26	2608	592	83	539
Starr, Emory E., Bowling Green, Ohio. Furnace	602,372	Apr. 12	1350	301 302	83	272
Starr, Ferdinand W., Springfield, Ohio. Rim for wheels	598,329	Feb. 1	453	108	82	688



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Starr, Fred. (See Entwistle, Starr, Talley, and Lorange.)						
Starr, George W., and J. H. Cogswell, Havana, Ill. Mixer and vaporizer for explosive engines	611,341	Sept. 27	2190	506	84	1916
Starrett, Jacob A., and E. F. Welsh, assignors of one-twentieth to W. F. Wood, Wilmerding, Pa. Lifting-jack	599,536	Feb. 22	2562	601	82	1146
Starrett, Laroy S. (See Brown, Charles W., assignor.)						
Starrett, Laroy S., Athol, Mass. Speed-indicator	601,800	Apr. 5	335	68	83	63
Starrett, Laroy S., Athol, Mass. Combined level, square, and plumb	613,946	Nov. 8	1274	289	85	880
Starring, Ford. (See Rooney, James H., assignor.)						
Staten Island Construction Company. (See Kühne, Paul, assignor.)						
Staub, Alfred, Bettenhausen, Germany. Apparatus for making sulfuric acid	598,351	Feb. 1	481	115 116	82	693
Staub, Henry, and C. Duerst, Allegheny, assignors, by mesne assignments, to T. McKenna, Pittsburg, Pa. Bottle-filling apparatus. (Reissue)	11,667	May 31	3334	766	83	1330
Stauber, Emanuel, Berlin, Germany. Drying apparatus	606,097	June 21	1967	452	83	1762
Staubschutz, Gesellschaft mit Beschränkter Haftung. (See Kinsbruner, Samuel L., assignor.)						
Staudenmayer, John G., Allegheny, Pa. Milk-can lock	603,489	May 3	459	102	83	689
Stauder, Peter. (See Epple, Herman, assignor.)						
Stauffer, Abraham G. (See Detwiler, Clinton A., assignor.)						
Stauffer, John H., Gap, Pa. Wire-picket-twisting device	605,930	June 21	1639	376	83	1702
Staven, Joseph A. (See Parbel and Staven.)						
Staver Carriage Company. (See Cloyes, James H., assignor.)						
Stayert, Peter, Pittsburg, Pa. Ventilated boot or shoe	607,259	July 12	1232	263	84	254
Stead, Isaac, Philadelphia, Pa. Mining-dredge	615,414	Dec. 6	375	89	85	1486
Steam Gauge and Lantern Company. (See Wright, Frederick K., assignor.)						
Steam Gauge and Lantern Company <i>et al.</i> (See Betts, Charles L., assignor.)						
Stearn, Charles H., and C. F. Topham, London, England; said Topham assignor to said Stearn. Apparatus for producing radiation of electricity	613,090	Oct. 25	2652	627	85	554
Stearns, Albert, Trenton, Mich. Machine for filling, weighing, and assorting packages	603,413	May 3	292	65, 66	83	656
Stearns & Co., E. C. (See Case, Frank B., assignor.)						
Stearns, Norman W., Boston, Mass. Insect-canopy	599,874	Mar. 1	381	86	82	1285
Stearns, Theron C., Jersey City, N. J., assignor to M. L. Kellogg, New York, N. Y. Dyeing hair or fur	611,870	Oct. 4	486		85	97
Stearns, William I. L., Detroit, Mich. Bicycle-lock	609,127	Aug. 16	1801	429	84	1033
Stebbins, Albyn A., Providence, R. I. Window-fastener	611,251	Sept. 27	2104	484	84	1900
Stebbins, Arthur D., <i>et al.</i> (See Le Ballister, David N., assignor.)						
Stebbins, Roswell O., New York, N. Y. Sleeping-bag	615,642	Dec. 6	788	182	85	1568
Stebbins, William F., Springfield, Mass. Pneumatic cushion for billiard or pool tables	603,490	May 3	460	102	83	689
Steber, Bernard T., Utica, N. Y. Match-machine	611,524	Sept. 27	2539	586	84	1981
Steber, Bernard T., Utica, N. Y. Match-machine	611,525	Sept. 27	2542	587	84	1982
Steber, Bernard T., Utica, N. Y. Match-machine	611,526	Sept. 27	2543	587	84	1982
Stech, John, Butte, Mont. Shoe-fastener	602,147	Apr. 12	972	212	83	195
Steck, Ernst F., Chicago, Ill., assignor to Fire Extinguisher Manufacturing Company, Chicago, Ill., and New York, N. Y. Protector for fusible sprinkler-plugs	598,683	Feb. 8	1065	257	82	821
Steck, Ernst F., Chicago, Ill., assignor to Fire Extinguisher Manufacturing Company, Chicago, Ill., and New York, N. Y. Dry-pipe valve for fire-extinguishing systems	598,684	Feb. 8	1066	257	82	821
Steck, Ernst F., Chicago, Ill., assignor to Fire Extinguisher Manufacturing Company, Chicago, Ill., and New York, N. Y. Dry-pipe valve for fire-extinguishing systems	609,474	Aug. 23	2439	571	84	1176
Stedman, George A., New York, N. Y. Sash-lock	599,875	Mar. 1	383	86	82	1285
Stedman, Pascal H., Newport, R. I. Voting-machine	613,049	Oct. 25	2574	611 612	85	539
Stedman, Willard P., Bristol, Conn. Lamp	609,917	Aug. 30	3222	755	84	1341
Steedman, George F., St. Louis, Mo. Shingle-sawing machine	603,928	May 10	1246	283 284	83	858
Steegmüller, Richard, New York, N. Y. Horn extension for can-body-forming machines	602,647	Apr. 19	1827	416 417	83	375
Steel, James. (See Coleman, Joseph H., assignor.)						
Steel, John W., <i>et al.</i> (See Boykin, Christopher C., assignor.)						
Steel Motor Company. (See Buchanan, John L., assignor.)						
Steel Motor Company. (See Du Pont, Antoine B., assignor.)						
Steel Motor Company. (See Forrer, Joseph D., assignor.)						
Steel Motor Company. (See Gairing, Alfred J., assignor.)						
Steel Motor Company. (See Harris, Samuel, assignor.)						
Steel Motor Company. (See Jeffrey, Charles L., assignor.)						
Steel Motor Company. (See Merrick, Frank A., assignor.)						
Steel Motor Company. (See Thomas, Joseph N., assignor.)						
Steel Motor Company. (See Valley, Gustaf, assignor.)						
Steel Storage and Elevator Construction Company. (See Weber, Frederick J., assignor.)						
Steele, Benjamin M., Peoria, Ill. Journal-box lubricator	616,812	Dec. 27	2971	693	85	2045
Steele, James C., Statesville, N. C. Brick-cutting table	612,283	Oct. 11	1225	292 293	85	247
Steele, John R., assignor of one-fourth to M. Smith, Sandy Valley, Pa. Skate	603,435	May 3	333	74	83	663
Steele, Wilbur S., <i>et al.</i> (See Farnam, Charles N., assignor.)						
Steelman, John C., Linwood, N. J. Shutter-fastener	600,047	Mar. 1	764	174	82	1363
Steelman, Lewis, assignor of one-half to J. P. Sheppard, Salem, N. J. Hot-air furnace	597,091	Jan. 11	1120	264	82	235
Steely, Reily S. (See Brown and Steely.)						
Steen, Anker B., Buxton, N. D. Permutation-padlock	601,801	Apr. 5	336	68	83	63
Steen, Edward A., Findlay, Ohio. Animal-dipping tank	606,946	July 5	541	119	84	108
Steen, Emma L. N., Corpus Christi, Tex. Gage-shears	598,031	Jan. 25	2712	633	82	576
Steen, William J., Rosevale, Pa. Coal-screen	616,271	Dec. 20	1971	458	85	1829
Steenken, Carl, Dinglingen, Germany. Stirrup	604,801	May 31	2887	660	83	1244
Steevens, Byron G. (See Steevens, George A. and B. G.)						
Steevens, George A. and B. G., Salem, Oreg. Fruit-drier	599,647	Feb. 22	2785	648	82	1191
Stefany, Felix, New York, N. Y. Hat-pin	601,989	Apr. 5	699	149	83	132
Steffee, Manson, Akron, Ohio. Fence	611,186	Sept. 20	1878	433	84	1838
Steffen, Carl, Vienna, Austria-Hungary. Defecating saccharine juices	600,899	Mar. 22	2295		82	1708
Steffens, Mathew J., assignor of one-half to J. K. Robinson, Chicago, Ill. Bicycle	613,732	Nov. 8	916	210	85	811
Stegmeyer, Otto, Charlottenburg, Germany. Machine for working leather	600,955	Mar. 22	2382	543	82	1725
Stehle, Don, <i>et al.</i> (See Wuthner, Jacob, assignor.)						
Stehle, John E., <i>et al.</i> (See Stanford, Leland E., assignor.)						
Steier, Carl, Neumarkt, Germany. Chamber for pumps	611,823	Oct. 4	407	97	85	80
Steiger, Eugen, assignor to C. A. Meyer & Cie, Zurich, Switzerland. Machine for multiplying copies of manuscript	604,849	May 31	2964	679 680	83	1258
Steimer, Theodore C. (See Rott and Steimer.)						
Stein, August K., assignor of one-half to J. Zimmerman, Chicago, Ill. Apparatus for generating acetylene gas	599,270	Feb. 15	2031	481 482	82	1022



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Stein & Co., Julius. (See Stein, Hulda, assignor.)						
Stein, Emanuel, <i>et al.</i> (See Lewes, Vivian B., assignor.)						
Stein, Friedrich W. V. (See Reichel and Stein.)						
Stein, Gotthilf. (See Eder and Stein.)						
Stein, Hulda, assignor to J. Stein & Co., New York, N. Y. Bicycle-skirt	616,026	Dec. 13	1469	{ 343 344	{ 85	1712
Steinacker, Frank W., and E. F. Cowley, Cleveland, Ohio. Electric-arc lamp	604,219	May 17	1819	{ 408 409	{ 83	1003
Steinbach, Reinhold, assignor to Fried. Krupp Grusonwerk, Magdeburg-Buckau, Germany. Ball-mill	603,977	May 10	1317	302	83	872
Steinberger, Julius, San Francisco, Cal. Glove-fastener	609,918	Aug. 30	3223	755	84	1342
Steinbrenner, Andrew G., assignor to Western Railway Equipment Company, St. Louis, Mo. Slack-adjuster	607,895	July 26	2542	539	84	545
Steinecke, Reinhold, New York, N. Y. Ventilating apparatus for buildings	613,431	Nov. 1	403	92	85	693
Steinenböhmer, Friedrich W., Iserlohn, Germany. Candle-holder	611,397	Sept. 27	2312	533	84	1938
Steiner, Arnold, assignor to Chemische Fabrik, vormals Sandoz, Basle, Switzerland. Triphenylmethane-blue dye	603,016	Apr. 26	2471	-----	83	514
Steiner, August, Homewood, Ill. Corn stripping and husking mechanism	606,824	July 5	349	74, 75	84	70
Steiner, Charles, Elmira, N. Y. Apparatus for cutting canals through ice	614,142	Nov. 15	1610	369	85	968
Steiner, Charles, Elmira, N. Y. Low-speed high-pressure water-turbine	616,641	Dec. 27	2659	616	85	1982
Steiner, Elmer E., assignor of one-half to L. M. Edwards, Knightstown, Ind. Weather-strip	608,275	Aug. 2	180	43	84	690
Steiner, Josef, Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Self-restoring annunciator	598,276	Feb. 1	365	85	82	670
Steinhardt, Jacob M., Newark, N. J. Corset and fastening therefor	616,503	Dec. 27	2415	559	85	1937
Steinhart, Israel, <i>et al.</i> (See Tyson, William G., assignor.)						
Steinhauser, Elliott, St. Louis, Mo. Advertising device	598,396	Feb. 1	551	134	82	707
Steinhauser, Frank J., Philadelphia, Pa. Guideway for sliding-seat row-boats	599,811	Mar. 1	259	58	82	1262
Steinike, Georg, and F. Schmidt, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Black disazo wool-dye	603,093	Apr. 26	2609	-----	83	539
Steinman, George, <i>et al.</i> (See Hawthorn, John A., assignor.)						
Steinmann, Louis E. (See Richards, Joseph B., assignor.)						
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Alternating-current induction-motor	602,920	Apr. 26	2307	526	83	482
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Alternating-current induction-motor	602,921	Apr. 26	2311	526	83	483
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. System of electrical distribution	605,525	June 14	847	198	83	1536
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. System of electrical distribution	605,526	June 14	848	{ 198 199	{ 83	1536
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Electrical distribution	608,307	Aug. 2	239	55	84	702
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. System of electrical distribution	608,308	Aug. 2	244	56	84	703
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Regulating dynamo-electric machines	608,309	Aug. 2	246	56	84	704
Steinmeyer, Henry L., Sacramento, Cal. Broom-holder	599,744	Mar. 1	121	28	82	1239
Steinmeyer, Henry L., Sacramento, Cal. Sash-fastener	599,745	Mar. 1	122	28	82	1239
Steinmüller, Lebrecht, Gummersbach, Germany. Riveting	609,633	Aug. 23	2755	643	84	1236
Steinthal, Martin, New York, N. Y. Sample-display device	612,463	Oct. 18	1540	369	85	320
Steinwachs, Gustavus, <i>et al.</i> (See Flickinger, George, assignor.)						
Stelling, Henry, <i>et al.</i> (See Bogel, Henry F., assignor.)						
Stelver, Louis. (See Robinson and Stelver.)						
Stelzenmüller, Andreas. (See Schubert and Stelzenmüller.)						
Stelzmann, Henry, and C. Jonas, Vineland, Fla.; said Jonas assignor to said Stelzmann. Propelling launches by wind-power	613,608	Nov. 1	696	{ 160 161	{ 85	749
Stenabaugh, Janet, <i>et al.</i> (See Russell, William, assignor.)						
Stendahl, Anders, Ala, Sweden. Lift for piling lumber	603,835	May 10	1082	241	83	826
Stender, Herman, Prospect Park, assignor of one-half to H. P. Ware, San Gabriel, Cal. Photographic copying-camera	606,593	June 28	2893	670	83	1962
Stender, Herman, Prospect Park, assignor of one-half to H. P. Ware, San Gabriel, Cal. Photographic copying-camera	606,594	June 28	2895	670	83	1962
Stengel, Henry, New York, N. Y. Picture-frame	613,091	Oct. 25	2653	627	85	554
Stenger, August, assignor to Seneca Glass Company, Morgantown, W. Va. Machine for cutting and smoothing tumblers	601,685	Apr. 5	112	22	83	24
Stenger, Julius J., and H. A. Rohm, Sayville, N. Y. Tire-tape	599,203	Feb. 15	1923	455	82	1000
Stenhouse, Katherine L., Chicago, Ill. Convertible bed	599,921	Mar. 1	468	105	82	1302
Stenman, Charles J., Old Westbury, N. Y. Sight for firearms	613,893	Nov. 8	1194	273	85	865
Stenz, Henry, and G. Westermann, assignors to Shadowless Radiator Manufacturing Company, Faribault, Minn. Radiator attachment for arc-lamps	599,519	Feb. 22	2535	596	82	1141
Stephen, George, assignor to G. G. Turri, Melbourne, Victoria. Extension table, seat, &c.	607,290	July 12	1233	{ 263 264	{ 84	254
Stephen, Wenzel, St. Louis, Mo. Skittle-table	611,398	Sept. 27	2315	534	84	1938
Stephens, Albert G., assignor of one-half to W. Whelan, Colorado Springs, Colo. Composition for extracting gold from refractory ores	602,526	Apr. 19	1615	-----	83	337
Stephens, Alejandro, Guadalajara, Mexico. Rotary engine	605,760	June 14	1270	{ 293 294	{ 83	1615
Stephens, Alejandro, Guadalajara, Mexico. Electric stop-motion for looms	607,714	July 19	2173	457	84	457
Stephens, Edward F., McKeesport, Pa. Druggist's label-cabinet	598,752	Feb. 8	1172	281	82	842
Stephens, George F. (See Furness, Frank, assignor.)						
Stephens, Jefferson S., Washington, Pa. Rotary engine	600,240	Mar. 8	1155	263	82	1460
Stephens, John, Muncie, Ind. Making planished sheet-iron	606,595	June 28	2898	-----	83	1963
Stephens, Robert, <i>et al.</i> (See Smith, William, assignor.)						
Stephens, Samuel, <i>et al.</i> (See Heaton, John W., assignor.)						
Stephenson, Clement L., assignor to H. C. Stephenson, New York, N. Y. Waist-belt attachment	603,158	Apr. 26	2715	617 294	83	561
Stephenson, Edwin N., Boston, Mass. Machine for tufting mattresses	612,284	Oct. 11	1228	{ 295 296 297	{ 85	248
Stephenson, Elmer E., Wabash, Ind. Trace-holder	614,513	Nov. 22	2305	528	85	1110
Stephenson, Helen C. (See Stephenson, Clement L., assignor.)						
Stephenson, Jennie M., New Haven, Conn. Work-holder attachment for sewing-machines	601,386	Mar. 29	3148	711	82	1898
Stephenson, John, Newark, N. J., assignor to himself, and G. T. McDondland, New York, N. Y. Apparatus for cleaning boilers	609,845	Aug. 30	3100	723	84	1318



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Stephenson, John R., assignor of three-fourths to L. Lampl, H. Benschmidt, and W. T. Russell, Wichita, Kans. Carbureter	608,531	Aug. 2	638	144	84	781
Stephenson, Taylor, Manning, Iowa. Paint	601,910	Apr. 5	556		83	106
Stephenson, William, Morris, Canada. Traction-engine	603,821	May 10	1048	233 234	83	821
Stephenson, William, Morris, Canada. Seed-drill	603,862	May 10	1134	255	83	837
Stephenson, William, Morris, Canada. Seed-drill-disk shoe	603,863	May 10	1134	255	83	837
Stephenson, William, Morris, Canada. Threshing-machine feeder	603,978	May 10	1319	302	83	873
Stephenson, William, Morris, Canada. Gang-plow	603,979	May 10	1321	303	83	873
Steppan, Josef, Pforzheim, Germany. Toy	602,019	Apr. 5	744	160	83	141
Steppart, Max A., Erie, Pa. Broom-holder	596,724	Jan. 4	478	109	82	93
Sterling Cycle Works. (See Kershaw, Francis A., assignor.)						
Sterling Supply and Manufacturing Company. (See Latham, Albert, assignor.)						
Sterling Supply and Manufacturing Company. (See Nielsen, Andrew E., assignor.)						
Stern, Adolf, and N. Lefkowitz, New York, N. Y. Folding carriage	598,964	Feb. 15	1532	364 365	82	927
Stern, Herman. (See Dow and Stern.)						
Stern, Isidor. (See Cooper, Herbert, assignor.)						
Stern, Leopold H., and T. W. G. Cook, New York, N. Y.; said Cook assignor to said Stern. Machine for grinding and polishing diamonds	605,193	June 7	242	58	83	1397
Stern, Moritz, Frankfort-on-the-Main, Germany. Cigarette-making machine	598,753	Feb. 8	1173	281	82	842
Sterne, Alfred J., assignor of fifty-one one-hundredths to H. Zuckerman, L. B. and W. H. Rolston, New York, N. Y., W. A. Bass, Little Silver, and E. S. Hooley, Plainfield, N. J. Igniting device	609,749	Aug. 23	2929	685	84	1270
Sterné, Emile, Paris, France. Capsule or container for containing compressed or liquefied gases	608,349	Aug. 2	330	73	84	722
Sterné, Emile, Paris, France. Apparatus employed in aerating water or other liquids in bottles	611,292	Sept. 27	2106	485	84	1901
Sternfeld, Julius, New York, N. Y. Machine for making stencils	607,291	July 12	1237	264	84	255
Sterns, W. W. (See Newbrough, John W., assignor.)						
Sterrett, William H. (See Lindley and Sterrett.)						
Stetson, Charles T., deceased; E. S. Stetson, Hanover, Mass., executrix. Loom for weaving tubular fabrics	601,215	Mar. 22	2820	644 645	82	1808
Stetson, Charles T., deceased; E. S. Stetson, West Hanover, executrix, assignor to J. B. Forsyth, Boston, Mass. Circular-knitting machine	610,461	Sept. 6	600	134 135	84	1553
Stetson, Clarence W. (See Canfield, Felix P., assignor.)						
Stetson, Elizabeth S., executrix. (See Stetson, Charles T.)						
Stettler, Francis C., Dayton, Ohio. Ventilated fruit-packing package	614,033	Nov. 8	1411	323	85	908
Stettler, Francis C., Dayton, Ohio, assignor to Dayton Paper Novelty Company, of Ohio. Paper box	598,032	Jan. 25	2714	634	82	576
Stettler, William, and T. M. Wilhelm, Allentown, Pa. Level	610,952	Sept. 20	1451	333	84	1757
Steudner, Martin, Gera, Germany. Bit	599,537	Feb. 22	2564	602	82	1146
Steven, Henri, San Sebastian, Spain. Steam-engine	601,531	Mar. 29	3393	769	82	1948
Steven, Henri, San Sebastian, Spain. Engine	604,643	May 24	2605	595	83	1171
Stevener, Charles W., Tarentum, Pa. Envelop-opener	601,309	Mar. 29	3029	682	82	1876
Stevens, Aurelius E. (See Dyer, Walter, assignor.)						
Stevens, Benjamin A., Toledo, Ohio. Refrigerator-door fastening	611,743	Oct. 4	267	64	85	55
Stevens, Benjamin A., Toledo, Ohio. Door	615,318	Dec. 6	166	43	85	1445
Stevens, Charles D., New York, N. Y. Wheel	601,802	Apr. 5	338	68	83	63
Stevens, Edward G., New York, N. Y. Box or crate	598,121	Feb. 1	85	20	82	619
Stevens, Edward G., Clinton, Mass., assignor to Monitor Company, Portland, Me., and Boston, Mass. Eye protector or guard	599,289	Feb. 15	2072	492	82	1029
Stevens, Fred A., San Francisco, Cal. Mechanical stoker	606,815	July 5	337	72	84	67
Stevens, Frederick M., Waterbury, Conn. Pump connection	615,509	Dec. 6	554	126	85	1519
Stevens, George J., and J. Hix, London, England. Suspension-wheel for velocipedes	607,670	Nov. 22	2590	588	85	1161
Stevens, George W., Elyria, Ohio. Shield for air-tubes in fire-boxes for steam-boilers	617,896	July 26	2543	539	84	545
Stevens, Henry A., Kalamazoo, Mich. Horse-retainer	611,654	Oct. 4	110	27	85	24
Stevens, Isaac. (See Barrett, Stevens, and Sutherland.)						
Stevens, John A., Lowell, Mass. Boiler	616,154	Dec. 20	1739	402 403	85	1781
Stevens, John A., Lowell, Mass. Boiler	616,155	Dec. 20	1742	403	85	1782
Stevens, John A., Lowell, Mass. Steam-boiler	616,156	Dec. 20	1745	404	85	1783
Stevens, John A., Lowell, Mass. Boiler and furnace	616,157	Dec. 20	1748	404 405	85	1784
Stevens, John A., Lowell, Mass. Steam-boiler	616,158	Dec. 20	1752	405	85	1785
Stevens, John F., Philadelphia, Pa. Voltmeter	607,715	July 19	2174	458	84	457
Stevens, John H. (See Wood and Stevens.)						
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Purifying nitrocellulose	605,931	June 21	1640		83	1702
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin composition of matter	607,554	July 19	1895		84	405
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	608,726	Aug. 9	998		84	871
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	608,727	Aug. 9	999		84	871
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	609,475	Aug. 23	2441		84	1176
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	610,566	Sept. 13	793		84	1607
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	610,615	Sept. 13	871		84	1624
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	610,953	Sept. 20	1453		84	1757
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Waterproof fabric	612,066	Oct. 11	848		85	176
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Waterproof fabric	612,067	Oct. 11	849		85	176
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	612,531	Oct. 18	1642		85	340
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Waterproof fabric	612,553	Oct. 18	1689		85	349
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	613,400	Nov. 1	344		85	681
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	614,514	Nov. 22	2306		85	1110
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Waterproof fabric	615,319	Dec. 6	167		85	1445



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Stevens, John H., Newark, N. J., and M. C. Lefferts, New York, assignors to Celluloid Company, New York, N. Y. Manufacturing pyroxylin sheets	600,824	Mar. 15	2160	493 494	82	1670
Stevens, John H., Newark, and F. C. Axtell, Short Hills, N. J., assignors to Celluloid Company, New York, N. Y. Pyroxylin compound	610,728	Sept. 13	1054	618	84	1662
Stevens, John T., Manning, Wis. Coat-support	606,477	June 28	2262	498	83	1921
Stevens, John W., St. Paul, Minn. Seal-lock	604,433	May 24	2226	344 345	83	1101
Stevens, Josiah P., Atlanta, Ga. Plate-printing machine	616,028	Dec. 13	1473	344 345	85	1713
Stevens, Le Roy W. (See Reuter, John C., assignor.)						
Stevens, Le Roy W., and L. D. Swart, assignors to A. W. Stevens & Son, Auburn, N. Y. Corn-husking machine	596,918	Jan. 4	801	190	82	156
Stevens, Lee. (See Laidlaw, George R., assignor.)						
Stevens, Levi, Trenton, N. J. Process of and apparatus for manufacturing gas	614,352	Nov. 15	2008	464	85	1042
Stevens, Lewis W., Los Angeles, Cal. Surf-boat	603,211	Apr. 26	2795	633 639	83	576
Stevens, Merton P., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Lamp	599,520	Feb. 22	2537	596	82	1141
Stevens, Samuel M., Manchester, N. H. Fire-extinguisher	605,932	June 21	1642	377	83	1702
Stevens, Samuel S., Point Arena, Cal. Boat-propelling mechanism	607,965	July 26	2659	563	84	568
Stevens, Seriah, Boston, Mass. Surgical lounge	601,762	Apr. 5	272	53	83	52
Stevens & Sons, M. T. (See Stone, George, assignor.)						
Stevens, Sylvester G., Lincoln, N. Y. Revolving gate	603,212	Apr. 26	2797	639	83	576
Stevens, Theodore B., Cleveland, Ohio. Sash-fastener	616,027	Dec. 13	1470	344	85	1713
Stevens, Thomas G., Greenhithe, England. Boot-tree	615,320	Dec. 6	168	44	85	1445
Stevens, Tillman H. (See Likins, Nelson, assignor.)						
Stevens, William H. (See Marcotte, Thomas, assignor.)						
Stevens, William X., Washington, D. C. Bicycle-frame	609,171	Aug. 16	1875	447	84	1046
Stevenson, Archy A., Burnham, Pa. Manufacture of wheels	600,809	Mar. 15	2139	488	82	1666
Stevenson, Charles M., Harvard, Ill. Spice-cabinet	607,716	July 19	2176	458	84	457
Stevenson, Daniel W., Brockton, assignor of one-half to E. L. Sprague, Boston, Mass. Bicycle-guard	599,406	Feb. 22	2322	549	82	1100
Stevenson, Elbert B., Philipsburg, Canada. Clothes-tongs	602,484	Apr. 19	1547	351	83	324
Stevenson, George W., assignor of one-half to T. Leas, Cramer's Hill, N. J. Presser-foot for sewing-machines	601,861	Apr. 5	472	95	83	88
Stevenson, Henry M., Perry, Iowa. Lifting-jack	601,451	Mar. 29	3262	737	82	1920
Stevenson, James A., New Castle, Pa. Water-heater	604,131	May 17	1661	373	83	972
Stevenson, John H., Allegheny, Pa. Hand-guillotine for fowls	610,591	Sept. 13	839	192	84	1617
Stevenson, Robert H., Joliet, Ill. Protecting-armor for pneumatic tires	601,327	Mar. 29	3054	688	82	1880
Stevenson, William M., Honey Grove, Tex. Cultivator	614,671	Nov. 22	2591	588	85	1162
Stevenson, William M., and W. K. Bailey, Honey Grove, Tex. Water-tank	602,373	Apr. 12	1352	302	83	272
Stevenson, William N., South Orange, N. J. Self-closing umbrella	607,141	July 12	952	207	84	202
Steves, Samuel P., Jordan, N. Y. Inhaler-mask	596,919	Jan. 4	804	190	82	157
Steward, Clarence S., Chattanooga, Tenn. Gas-burner	603,613	May 3	686	153	83	734
Steward, George R., assignor of two-thirds to E. E. Glaskin, London, and J. Cash, Coventry, England. Furnace-door	604,093	May 17	1592	358	83	959
Steward, John F. (See Ellis and Steward.)						
Steward, John F., Chicago, Ill. Mower	596,796	Jan. 4	601	139 140	82	115
Steward, John F., Chicago, Ill. Grain-harvester	616,029	Dec. 13	1478	346	85	1714
Stewart, Alexander, assignor to G. T. and G. H. Sutterley, Jr., Philadelphia, Pa. Alcohol-lamp	614,034	Nov. 8	1413	323	85	908
Stewart, Alexander S., Neche, N. D. Chopping-machine	601,532	Mar. 29	3394	770	82	1948
Stewart, Alexander T., Ream's Station, Va. Seed-planter	603,213	Apr. 26	2798	639	83	576
Stewart, Benjamin F., Chicago, Ill. Harvester-frame	614,185	Nov. 15	1674	385 386 387	85	979
Stewart, Charles E., Woodstock, Canada. Book-rest	616,367	Dec. 20	2142	498	85	1864
Stewart, Clarence F., Norwalk, Ohio. Dowel-pin-pointing machine	608,924	Aug. 9	1395	329 330	84	944
Stewart, Cornelius J., Cullman, Ala. Insect-exterminator	597,032	Jan. 11	1002	236	82	211
Stewart, David S., assignor of one-half to G. W. Jones Lumber Company, Clintonville, Wis. Sawing-machine	606,035	June 21	1848	426	83	1738
Stewart, Ellsworth D. (See Armstrong and Willard, assignors.)						
Stewart, F. W. (See Van Schoick, George R., assignor.)						
Stewart Hartshorn Company. (See Hartshorn, Edmund F., assignor.)						
Stewart, Henry, Prophetstown, Ill. Box-forming machine	606,692	July 5	99	22, 23	84	22
Stewart, Hugh, Fort Wayne, Ind. Window-cleaner	616,504	Dec. 27	2417	559	85	1937
Stewart, Hugh J. (See McInturf and Stewart.)						
Stewart, John J., et al. (See Cline, William, assignor.)						
Stewart, John K., Chicago, Ill. Mechanism for operating animal-shears, &c.	604,869	May 31	3005	690	83	1267
Stewart, Perry H. (See Luse, Donlin, and Stewart.)						
Stewart, Richard C., Jr., and W. A., Covington, Ky. Jail	601,005	Mar. 22	2473	563	82	1741
Stewart, Robert A., Cerrillos, N. Mex. Ter. assignor of one-half to J. J. Vorpe and L. G. Beale, Van Wert, Ohio. Method of and apparatus for reducing and separating ores	601,533	Mar. 29	3397	770	82	1948
Stewart, Robert W., Mount Victory, Ohio. Windmill	612,464	Oct. 18	1541	370	85	320
Stewart, Rolla, and W. R. Winchel, Wolcott, N. Y. Hoisting device	604,802	May 31	2888	660	83	1244
Stewart, Scott, Rivesville, W. Va. Copy-holder	614,515	Nov. 22	2307	528	85	1110
Stewart, Scott, and J. F. Swisher, Rivesville, W. Va. Grain measurer and register	601,739	Apr. 5	227	45	83	44
Stewart, Theodore L., Brooklyn, N. Y., assignor, by mesne assignments, to Venetian Iron Company, of New Jersey. Tool for cutting and binding metallic strips	605,761	June 14	1273	294	83	1615
Stewart, W. F. Bay. (See McCoy, John, assignor.)						
Stewart, Wallace A. (See Stewart, Richard C., Jr., and W. A.)						
Stewart, William F., et al. (See Harden, John J., assignor.)						
Stewart, William J., Chicago, Ill. Feeding mechanism for sewing-machines	596,920	Jan. 4	806	190	82	158
Stewart, William W., Columbus, Ga. Hose-reel	600,274	Mar. 8	1221	277	82	1472
Stewart, William W., New York, N. Y. Fountain-pen	614,630	Nov. 22	2519	574	85	1141
Stiassny, Leopold, New York, N. Y. Incandescent-mantle support	611,527	Sept. 27	2544	587	84	1982
Stickel, Jacob, Williamsport, Pa. Floating power-house	603,929	May 10	1249	284	83	859
Sticker, Francis, assignor to J. C. and C. A. Drucklieb, New York, N. Y. Steam-injector	600,453	Mar. 8	1507	345	82	1525
Sticker, Francis, assignor to J. C. and C. A. Drucklieb, New York, N. Y. Steam-injector	600,454	Mar. 8	1510	345 346	82	1525
Sticker, Francis, assignor to J. C. and C. A. Drucklieb, New York, N. Y. Steam-injector	600,455	Mar. 8	1513	346 347	82	1526
Sticker, Francis, assignor to J. C. and C. A. Drucklieb, New York, N. Y. Steam-injector	600,456	Mar. 8	1517	347 348	82	1527



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Stickney, Benjamin W. (See Ring and Stickney.)						
Stickney, Burnham C., Elizabeth, N. J. Type-writing machine	609,476	Aug. 23	2442	571 572 573	84	1176
Stickney, Natt, Bradford Mass. Dumping-scow	605,762	June 14	1275	295	83	1616
Stickney, William A., St. Louis, Mo. Cigar-box	597,791	Jan. 25	2309	538	82	498
Stiefel, Adolph, Hammelburg, Germany. Bouquet-holder	606,098	June 21	1968	452	83	1762
Stiefel, Moses. (See Mandl, Alexander, assignor.)						
Stiefel, Ralph C., Ellwood City, assignor to Shelby Steel Tube Company, Pittsburg, Pa. Mechanism for expanding or enlarging metallic tubes	605,027	May 31	3259	748 749	83	1316
Stieferman, Peter. (See Howe and Stieferman.)						
Stienen, Ferdinand, Middletown, Conn. Bicycle-lock	607,142	July 12	953	207	84	202
Stier, David W., Washington, D. C. Envelop	614,516	Nov. 22	2308	529	85	1111
Stigen, Peter P., Bloomingdale, Wis. Threshing-machine implement	616,272	Dec. 20	1972	459	85	1829
Stikeman, George, Brooklyn, N. Y. Shelf-support	600,387	Mar. 8	1393	319	82	1505
Stiles, Archibald, Baton Rouge, La., assignor of one-half to C. C. Lewis, Stephensport, Ky. Corkscrew	613,176	Oct. 25	2780	655	85	580
Stiles, Edward R., Decatur, Ill. Railway-rail tie	605,356	June 7	574	127	83	1462
Stiles & Fladd Press Company. (See Good, Robert J., assignor.)						
Stiles, Henry M., Newark, assignor of one-half to H. M. Barrett, Bloomfield, N. J. Sand-box for railway-cars	606,172	June 21	2102	483	83	1787
Stille, Friedrich, Lingerich, Germany. Grinding-mill	603,516	May 3	509	111	83	699
Stillman, Herbert L., Charlestown, R. I. Railway for highways	597,515	Jan. 18	1836	424	82	391
Stillwell, Charles J., Winfield, Kans. Box-fastener	604,922	May 31	3095	711	83	1284
Stillwell, Arthur E., Kansas City, Mo. Oyster or fish car	609,373	Aug. 16	2242	530	84	1121
Stillwell-Bierce & Smith-Vaile Company. (See Giesler, Arthur, assignor.)						
Stillwell-Bierce & Smith-Vaile Company. (See Kimes, Hugh W., assignor.)						
Stillwell, Luther J., Nevin, N. C. Pea thresher and cleaner	601,026	Mar. 22	2506	570	82	1748
Stilwell, Wallace A., and A. Barneck, Salina, Kans. Telephone signal system	604,434	May 24	2228	499 500	83	1102
Stimpson, Thomas F., assignor to Silver Spring Bleaching and Dyeing Company, Providence, R. I. Printing fabrics	599,134	Feb. 15	1814		82	981
Stimpson, Wallace L., Milford, assignor to Sawyer Spindle Company, Boston, Mass. Spindle and bearing	601,846	Apr. 5	444	90	83	83
Stimson, Charles W., New York, N. Y. Button	603,517	May 3	510	111	83	699
Stimson, Charles W., New York, N. Y. Button	608,487	Aug. 2	565	126	84	768
Stimson, Nathaniel A., Herkimer, N. Y. Printing and folding machine	606,397	June 28	2538	588 589	83	1891
Stine, William P. (See Wilcher, John D., assignor.)						
Stingley, Francis M., et al. (See Slaughter, Sherman, assignor.)						
Stinson, James C., Centre Point, Tenn. Cattle-pump	607,775	July 19	2273	480	84	476
Stirckler, Albert E., Northampton, England. Apparatus for driving tacks	606,596	June 28	2899	670 671	83	1963
Stirckler, Albert E., Northampton, England. Gripping apparatus	608,012	July 26	2764	587	84	591
Stirling Company. (See Pell, Harry S., assignor.)						
Stirling, Edward M., Newark, N. J. Flushing-tank	604,178	May 17	1754	395	83	991
Stirling, Henry R., Barton, Ark. Mowing-machine	601,911	Apr. 5	557	114	83	106
Stivers, William D., Jersey City, N. J. Turret-joint for naval vessels	602,374	Apr. 12	1353	302	83	273
Stivers, William D., Jersey City, N. J. Turret for war vessels	604,435	May 24	2231	500 501	83	1102
Stockbridge, Leon W., Portland, and F. C. Rollins, Farmington; said Rollins assignor to A. M. Pettengill, Portland, Me. Machinist's clamp	615,113	Nov. 29	3426	786	85	1339
Stocker, Johannes, F. Meissner, and H. Zander, Rathenow, Germany. Fire and weather proof composition	607,292	July 12	1238		84	256
Stocker, Johannes, H. Zander, and W. Döblin, Rathenow, Germany. Fire-extinguishing compound	616,368	Dec. 20	2143		85	1864
Stocker, John, St. Louis, Mo. Distilling apparatus	614,776	Nov. 22	2770	633	85	1198
Stockett, John W., Washington, D. C. Ordnance breech mechanism	601,176	Mar. 22	2750	632	82	1795
Stockett, John W., Washington, D. C. Ordnance breech mechanism	601,177	Mar. 22	2753	632	82	1795
Stockford, Charles E., Sulphur Creek, Cal. Bicycle	608,350	Aug. 2	332	73	84	722
Stockinger, Andreas, Vienna, Austria-Hungary. Device for holding or retaining ladies' hair	601,418	Mar. 29	3203	723	82	1909
Stockton, George, San Francisco, Cal., assignor of one-half to W. C. Peacock, Honolulu, Hawaii. Closure for oil-cans	614,035	Nov. 8	1415	324	85	909
Stockton, William L., Trenton, Ohio. Block-signal system	615,584	Dec. 6	681	157	85	1545
Stockwell, Charles A. (See Haebler, Anton J., assignor.)						
Stockwell, John W. (See Bowley, Joseph H., assignor.) (Reissue.)						
Stockwell, Joseph S., et al. (See Kinney, Israel, assignor.)						
Stockwell, Millard E., et al. (See Ledward, Frederick A., assignor.)						
Stoddard, Abbott L., Providence, R. I. Guide and guard for variety molding-machines	604,946	May 31	3127	719	83	1291
Stoddard, George W., Billings, Mont. Wagon-jack	614,777	Nov. 22	2772	633	85	1199
Stoddard, Worden E., Elburn, Ill. Bow	599,747	Mar. 1	126	29	82	1240
Stoebe, Joseph C. (See Barnes, George J., assignor.)						
Stoebler, Emil P. (See Fagan and Stoebler.)						
Stoecker, Louis, Jersey City, N. J. Pencil-sharpener	606,036	June 21	1849	426	83	1739
Stoeffler, William E., Philadelphia, Pa. Baker's oven	609,919	Aug. 30	3224	755	84	1342
Stoermer, Alexander, Sr., Yoakum, Tex. Bed-brace	609,172	Aug. 16	1877	447	84	1046
Stohwasser, Francis J., et al. (See Pullman, John, assignor.)						
Stokes, Alfred W., London, assignor to R. A. Lister & Co., Limited, Dursley, England. Apparatus for testing amount of fat in milk	599,369	Feb. 22	2243	532	82	1084
Stokes, Alfred W., London, assignor to R. A. Lister & Co., Limited, Dursley, England. Apparatus for determining fat in milk	602,780	Apr. 19	2051	464	83	419
Stokes, Alfred W., London, assignor to R. A. Lister & Co., Limited, Dursley, England. Pipette	605,146	June 7	165	41	83	1382
Stolpner, Wilhelm. (See Gruhn and Stolpner.)						
Stöltig, Adolph, New York, N. Y. Fan attachment for baby-carriages	609,846	Aug. 30	3101	723	84	1318
Stoltz, Anthony M., St. Paul, Minn. Apparatus for heating and moistening soil	607,143	July 12	955	207	84	202
Stolz, Ferdinand C., New York, N. Y. Lantern for ovens	604,239	May 17	1857	415 416	83	1010
Stone, Albert H., New York, N. Y. Depilatory	599,812	Mar. 1	259		82	1262
Stone, Charles H., Melrose, Mass. Making waterproof leather	606,882	July 5	454		84	89
Stone & Co., J. (See Preston and Gill, assignors.)						
Stone, Columbus, Home, assignor of one-sixth to J. Armitage, Greenville, Tenn. Grain-scourer	603,294	May 3	84	21	83	617



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Stone, Edward H., <i>et al.</i> (See Keeler, Walter E., assignor.)						
Stone, Fred H., <i>et al.</i> (See Van Wagoner, Charles H., assignor.)						
Stone, George, assignor to M. T. Stevens & Sons, North Andover, Mass. Wool-drying apparatus	608,385	Aug. 2	386	85, 86	84	732
Stone, Henry H., Stewartsville, N. J. Whiffletree attachment	597,302	Jan. 11	1447	339	82	297
Stone, Henry L., Gurdon, Ark. Colter-clamp	611,655	Oct. 4	111	28	85	25
Stone, Henry W. (See Brien, James T. and T. R., assignors.)						
Stone, Irving. (See Gibbs and Stone.)						
Stone, Irving, Chicago, Ill., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter. Web tension device	612,958	Oct. 25	2436	581	85	511
Stone, James B. (See Jobson, George, assignor.)						
Stone, Jane W. (See Kennedy, Frank M., assignor.)						
Stone, Jane W. (See Warner, Daniel, assignor.)						
Stone, John H., Toronto, assignor to S. Jones, Hamilton, Canada. Hot-water boiler or tank	616,030	Dec. 13	1480	346	85	1715
Stone, John S., assignor to American Bell Telephone Company, Boston, Mass. Telephone repeater or relay	609,374	Aug. 16	2244	531	84	1121
Stone, Joseph P., Schenectady, N. Y., and S. E. Doane, Marlborough, Mass., assignors to General Electric Company, of New York. Starting device	603,778	May 10	962	215	83	803
Stone, Nellie R., Brynmawr, Cal. Pocket folding head-rest	597,336	Jan. 11	1513	354	82	311
Stone, Peter, Los Angeles, Cal. Siphon carbon faucet-filter	616,031	Dec. 13	1482	346	85	1715
Stone, Sam., Quillayute, Wash. Swimming appliance	611,005	Sept. 20	1549	357	84	1775
Stone, Walter S. (See Heelan, Lawrence W., assignor.)						
Stone, William G., Charlotte, N. C. Churn	602,201	Apr. 12	1070	235	83	216
Stonebridge, Margaret, New York, N. Y. Washing-machine	613,401	Nov. 1	346	80	85	681
Stonebridge, Margaret, New York, N. Y. Corset	614,631	Nov. 22	2521	574	85	1149
Stonemetz, John H., Brooklyn, assignor, by mesne assignments, to Campbell Printing Press and Manufacturing Company, New York, N. Y. Oiling device	598,122	Feb. 1	86	20	82	619
Stoner, Clinton S., assignor of one-half to J. H. Miller and J. A. Hollington, West Unity, Ohio. Display-stand	613,609	Nov. 1	697	161	85	749
Stoner, Joseph A. (See Albright, Harry W., assignor.)						
Stoner, Leroy, Centreville, Mo. Rotary engine	599,648	Feb. 22	2787	648 649	82	1191
Stonge, Harvey, Weston, Canada. Gate	598,541	Feb. 8	810	194	82	774
Stopher, Arthur J., assignor to Siemens Brothers & Company, Limited, London, England. Apparatus for controlling electric motors	602,781	Apr. 19	2052	465 466	83	419
Storage Power Company. (See Prall, William E., assignor.)						
Storer, Jacob J., Newton, F. Martin, Boston, Mass., and G. O. Eaton, New York, N. Y., assignors to United Mill and Furnace Company, of Montana. Furnace for treating ores	613,828	Nov. 8	1082	246	85	842
Storer, Thomas, Glasgow, Scotland. Extracting nickel from nickel ores	603,797	May 10	1000	587	83	812
Storey, Imle E., Philadelphia, Pa. Reversing-rheostat	608,013	July 26	2765	588	84	591
Storm, Edward, Poughkeepsie, N. Y. Thill-coupling	608,276	Aug. 2	183	44	84	691
Storm, Edward, Poughkeepsie, N. Y. Thill-coupling	608,488	Aug. 2	567	126	84	768
Störmer, Henrik C. F., Christiania, Norway. Apparatus for washing amalgam	600,211	Mar. 8	1107	252	82	1451
Störmer, Henrik C. F., Christiania, Norway. Apparatus for washing alkali amalgam	614,353	Nov. 15	2012	464	85	1042
Storr, David C., New York, N. Y. Folding couch-bed	596,637	Jan. 4	316	69	82	62
Storr, David C., New York, N. Y. Folding couch-bed	596,725	Jan. 4	478	110	82	93
Storrs, Harry A., Burlington, Vt., assignor to Draper Company, Portland, Me., and Hope-dale, Mass. Demagnetizing device	599,304	Feb. 15	2097	497	82	1034
Story, E. C., <i>et al.</i> (See Kellerman and Crane, assignors.)						
Story, Judge B., Bloomington, Ill. Clothes-drier	613,331	Nov. 1	195	43	85	654
Story, Orville L., Somerville, Mass. Folding opera-chair	612,634	Oct. 18	1855	439	85	379
Stott, Jesse A. (See Todd and Stott.)						
Stott, John E., Windsor Locks, Conn. Chain winding or unwinding device	615,920	Dec. 13	1270	297	85	1672
Stouffer, Hiram C., Teegarden, assignor of one-half to C. C. Baker, Alliance, Ohio. Wheelbarrow	597,337	Jan. 11	1514	354	82	312
Stough, Charlie B., Creston, Iowa. Thill-coupling	609,477	Aug. 23	2459	574	84	1181
Stoughton, John A. (See Fernside, George W., assignor.)						
Stoughton, Joseph M. (See Hess and Stoughton.)						
Stoughton Wagon Company. (See Halvorsen, Nels, assignor.)						
Stout, Eugene A., Jr., Philadelphia, Pa. Electric signaling device	598,033	Jan. 25	2715	634	82	576
Stout, George A., Anderson, Ind. Advertising device	611,045	Sept. 20	1617	370	84	1788
Stout, Samuel, Newcomb, Ill. Gate	606,250	June 28	2275	526	83	1840
Stover, Frank E. (See Grove and Stover.)						
Stover, Frank E., Luray, Va. Self-closing umbrella	604,275	May 17	1923	430	83	1024
Stover, Frank E., and F. G. Grove, Luray, Va. Folding umbrella	606,099	June 21	1969	452 453	83	1762
Stover, Hugh C., Philadelphia, Pa. Heating-drum	599,068	Feb. 15	1703	404	82	961
Stover Manufacturing Company. (See Held, August S., assignor.)						
Stover Manufacturing Company. (See Ziegler, Oscar J., assignor.)						
Stover Novelty Works. (See Hoefer, Frederick W. and A. G., assignors.)						
Stow Manufacturing Company. (See Hotchkiss, William E., assignor.)						
Stowe, Benjamin L., Jersey City, N. J. Tubular woven fabric	610,462	Sept. 6	603	135	84	1554
Stowe, Benjamin L., Jersey City, N. J. Tubular woven fabric	610,463	Sept. 6	605	135	84	1554
Stowe, Charles B., Cleveland, Ohio. Heating or burning cylinder	609,920	Aug. 30	3226	755	84	1342
Stowe, George D., Whitewater, Wis. Self-feeder for threshing-machines	606,597	June 28	2903	671	83	1964
Stowe, Lorenzo, Chattanooga, Tenn. Combined frame-brace and stake-socket	601,912	Apr. 5	558	115	83	106
Stowe, Robert H. (See Fite, Cephas V., assignor.)						
Stowell, Jerome E., Minneapolis, Minn. Package-carrier	613,733	Nov. 8	917	210	85	811
Strahle, Jacob F., Burr, Nebr. Car-coupling	597,792	Jan. 25	2311	538	82	498
Strahle, Jacob F., Burr, Nebr. Wrench	615,643	Dec. 6	790	183	85	1568
Strahmann, John D., <i>et al.</i> (See Boch, Philipp, assignor.)						
Strain, Charley H. (See Rockey and Strain.)						
Strain, Edwin, Melrose, Mass., assignor of one-half to H. A. Blanchard, New York, N. Y. Split needle	603,822	May 10	1049	234	83	821
Strait, William, Elmira, N. Y. Horse hay-rake	616,159	Dec. 20	1755	406	85	1786
Straka, Anton, and P. H. Schmidt, Chicago, Ill. Casing-machine	601,534	Mar. 29	3398	771	82	1949
Strakosch, Max, Vienna, Austria-Hungary. Apparatus for generating acetylene gas	610,150	Aug. 30	3618	841	84	1421
Stram, Charlie J., Waterman, Ill. Adjustable double-deck stock-car	600,750	Mar. 15	2047	468	82	1649
Stranahan, William C. (See English and Stranahan)						
Sträng, Henrik C., Chicago, Ill. Gas-engine	615,052	Nov. 29	3316	762	85	1319
Strang, Joseph. (See Simpson, Walker, Strang, and Farnworth.)						
Strange, Benjamin F., Corvallis, Mont. Stock-yard gate	611,153	Sept. 20	1826	421	84	1828



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Strange, Wanda I. C. (See De Morgan, William, assignor.)						
Strange, William J. S., Leamington, England. Bicycle driving mechanism	612,918	Oct. 25	2372	565	85	497
Stranger, Charles F. (See Morse, Harvey B., assignor.)						
Stransky, Anton, Gravesville, Wis. Swinging hammock-chair	608,712	May 10	850	189	83	782
Strasburg, Charles A., Cridersville, Ohio. Mail-bag fastener	605,588	June 14	963	223	83	1558
Strasburger, Frank C. H., Chicago, Ill. Bottle-labeling machine	606,745	July 5	202	13, 44	84	41
Strassman, Adolphus, <i>et al.</i> (See Leishman, David F., assignor.)						
Strate, Henry, New York, N. Y. Bootjack	606,947	July 5	542	119	84	108
Strathy, Robert L. F., Yarmouth, Canada. Wire fence	599,024	Feb. 15	1640	388	82	948
Stratton, Charles H., Buffalo, N. Y. Shifting-seat vehicle	600,625	Mar. 15	1827	419	82	1606
Stratton, James M., assignor to Deming Company, Salem, Ohio. Cleansing apparatus for paper-making machines	596,950	Jan. 4	862	202	82	168
Stratton, Joseph H., Salt Lake City, Utah. Sampling-mill	599,649	Feb. 22	2790	649 650	82	1191
Straub, Ambrose W., Philadelphia, Pa. Double equalizing grinding-mill	608,085	July 26	2880	616 617	84	614
Straub, Charles A. and H. F., Rouseville, Pa. Shot-anchor for oil-wells, &c	615,321	Dec. 6	169	44	85	1446
Straub, Henry F. (See Straub, Charles A. and H. F.)						
Straus, Hermann. (See Reynolds, Francis W., the Younger, assignor.)						
Straus, Meyer L. (See Gaylord, John F., assignor.)						
Strauser, Joel F., and H. T. Klinger, Tower City, Pa. Miner's drill	616,273	Dec. 20	1973	459	85	1830
Strauss, Charles H., Seattle, Wash. Self-acting railway-switch	613,827	Nov. 8	1078	245 246	85	842
Strauss, Ferdinand. (See Curtis, Charles L., assignor.)						
Strauss, Gustavus E. (See Hansen, Hermann, assignor.)						
Strauss, Henry, New York, N. Y. Bath-tub attachment	604,803	May 31	2889	660 661	83	1245
Strauss, Louis, Providence, R. I. Water-wheel	612,554	Oct. 18	1690	401	85	349
Strauss, Peter, Leavenworth, Kans. Smoke and gas returning apparatus for steam-boilers	596,638	Jan. 4	317	69	82	63
Strawson, Henry, Bradley, Ill. Non-refillable bottle	606,309	June 28	2377	550	83	1861
Streetfeild, Richard J., Bawtry, England. Coin-freed apparatus for enabling supplies of water or other liquid to be obtained	600,810	Mar. 15	2140	489	82	1666
Streator, Henry D., Kalamazoo, Mich. Fishing-tackle holder	599,370	Feb. 22	2245	532	82	1084
Strebler, Peter. (See Cocayne, Isidore J., assignor.)						
Strecker, George, Chicago, Ill. Foot-propelled vehicle	605,028	May 31	3263	749	83	1317
Strecker, Otto C., assignor to J. Scholz, Mentz, Germany. Preparing aluminium printing-plates	597,866	Jan. 11	1567	-----	82	322
Streep, Daniel H., Morristown, Pa. Luggage-carrier for bicycles	610,288	Sept. 6	285	62	84	1496
Street Cleaning Company. (See Smith, Eldridge J., assignor.)						
Street, Ernest A. G., Paris, France. Explosive and making same	598,618	Feb. 8	938	-----	82	799
Street, Fred, Philadelphia, Pa. Combined cyclometer and time-recorder for vehicles	600,811	Mar. 15	2141	489	82	1666
Street, Frederick B. (See Bradley, Edwin M., assignor.)						
Street, Frederick B., <i>et al.</i> (See Newell, John G., assignor.)						
Street, Harry N. (See Antomarchi, Joseph, assignor.)						
Streeter, Daniel A., Waterbury, Conn. Pipe-plug	600,751	Mar. 15	2048	468	82	1649
Streeter, Daniel H., assignor to C. E. Manning, Chicago, Ill. Boiler-furnace	616,369	Dec. 20	2144	499	85	1864
Streeter, Wyman H. (See Jackson, John H., assignor.)						
Strehlow, Robert, <i>et al.</i> (See Armstrong, Harry Y., assignor.)						
Streit, Charles F., Cincinnati, Ohio. Reclining-chair	607,293	July 12	1239	264	84	256
Stretch, Elisha, assignor of one-half to M. E. Stretch, East Orange, N. J. Means for raising oil by water-pressure	606,432	June 28	2614	603	83	1908
Stretch, Joseph, East Orange, N. J. Apparatus for distilling water	604,550	May 24	2450	557	83	1140
Stretch, Joseph, East Orange, assignor of one-half to G. V. Tucker, Newark, N. J. Sink	596,763	Jan. 4	549	126	82	106
Stretch, Margaret E. (See Stretch, Elisha, assignor.)						
Stretch, Robert, Detroit, Mich. Device for heating water by steam	606,310	June 28	2378	550	83	1861
Strickler, William H., Jeannette, Pa. Water-elevator	607,966	July 26	2660	568	84	568
Striegler, Ernst L., London, England. Lathe and attachment	597,303	Jan. 11	1448	339 340	82	297
Strietelmeier, John E., Cincinnati, Ohio. Toy bowling-game	614,998	Nov. 29	3212	738	85	1300
Stripe, Hiram, Aultman, Ohio. Eaves-trough	614,632	Nov. 22	2522	575	85	1149
Strohecker, Charles J. D., Zelenople, Pa. Hame or collar fastener	606,598	June 28	2905	672	83	1964
Strom, Axel A., Austin, assignor, by mesne assignments, to Walmsley & Company, Chicago, Ill. Apparatus for generating acetylene gas	608,804	Aug. 9	1140	264 265	84	897
Strom, Axel A., Austin, assignor to Strom Manufacturing Company, Chicago, Ill. Hoisting apparatus	611,084	Sept. 20	1693	389 390	84	1802
Strom Manufacturing Company. (See Strom, Axel A., assignor.)						
Stromsdorfer, Phillippe. (See Hocquet, Maxime, assignor.)						
Stromvall, John, Springfield, Mass. Check-valve	599,650	Feb. 22	2793	650	82	1192
Strong, Elias D., Chicago, Ill. Explosive-engine	597,921	Jan. 25	2519	589	82	538
Strong, George S., New York, N. Y., assignor, by mesne assignments, to C. E. Platt, Philadelphia, Pa. Compound locomotive-engine	606,633	June 28	2964	687 688	83	1975
Strong, Robert F., London, England. Treatment of peat or other ligneous substances	607,528	July 19	1843	-----	84	397
Strong, Robert F., London, England. Composition of matter for and process of manufacturing artificial fuel	607,529	July 19	1844	-----	84	397
Strong, Robert W. C., Reading, England. Apparatus for covering strings with fly-paste	598,583	Feb. 8	881	211	82	788
Strother, John W., West Milford, assignor of two-thirds to F. E. Morrison, Clarksburg, W. Va. Lid for pots, &c	606,599	June 28	2906	672	83	1964
Stroud, Merton J., Paton, Iowa. Draft attachment for vehicles	608,728	Aug. 9	1000	229	84	871
Stroud, William. (See Barr and Stroud.)						
Strough, John W., <i>et al.</i> (See Culbertson, Andrew J., assignor.)						
Stroup, Jacob, Washoe, Idaho. Swimming appliance	613,610	Nov. 1	699	161	85	750
Strout, Joseph M., Portland, Me. Dental-matrix retainer	601,178	Mar. 22	2755	633	82	1796
Strout, Joseph M., Portland, Me. Dental matrix-retainer	613,947	Nov. 8	1275	289	85	880
Strowger Automatic Telephone Exchange. (See Keith and Erickson, assignors.)						
Strub, Emil, Zurich, Switzerland, assignor to Gesellschaft der L. von Roll'schen Eisenwerke in Solothurn, of Switzerland. Rack rail for mountain railways	600,334	Mar. 8	1293	296	82	1485
Struben, Henry, Chicago, Ill. Bottle or flask	600,329	Mar. 8	1320	302	82	1491
Struble, Jacob B., Wilkinsburg, assignor to Union Switch and Signal Company, Swiss vale, Pa. Indication-box for switches	612,979	Oct. 25	2471	589	85	518
Strubler, Charles G., Tecumseh, Mich. Computing-scale	596,726	Jan. 4	479	110	82	93
Strubler, Charles G., Elkhart, Ind. Scale	596,727	Jan. 4	482	110 111	82	94
Struhs, Frank, Grand Rapids, Mich. Lawn-sprinkler	616,032	Dec. 13	1484	347	85	1716
Strunz, Frederick B., Pittsburg, Pa. Apparatus for making caustic soda	604,670	May 24	2652	603	83	1181



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Strunz, Frederick B. and S. C., Pittsburg, Pa. Soap-crutching machine.....	604,671	May 24	2654	608	83	1181
Strunz, Stephen C. (See Strunz, Frederick B. and S. C.)						
Struthers, Wells & Company. (See Davis, Hilance E., assignor.)						
Stuart, Mary B., administratrix. (See Stuart, William H., Jr.)						
Stuart, W. T. (See Sapp, Isaac H., assignor.)						
Stuart, William H., Jr., deceased; M. B. Stuart, Philadelphia, Pa., administratrix. File for letters, bills, &c	611,716	Oct. 4	224	55	85	46
Stubbers, Joseph, Covington, Ky. Hydraulic blower and pressure apparatus for gas-machines	599,538	Feb. 22	2565	602	82	1146
Stubbers, Joseph, Covington, Ky. Apparatus for conveying air and vapor to burners	603,436	May 3	334	74	83	664
Stubbins, Clayton A. (See Wright, Albert C., assignor.)						
Stubblebine, William, Bethlehem, Pa. Furnace.....	606,600	June 28	2907	672	83	1964
Stubblebine, William, Bethlehem, Pa. Air-heater for furnaces	609,306	Aug. 16	2138	507	84	1100
Stubblefield, Nathan B., assignor of one-half to W. G. Love, Murray, Ky. Electrical battery	600,457	Mar. 8	1520	348	82	1528
Stubbs, William E., Chester, Pa. Mechanism for indicating travel of bicycles, &c	601,686	Apr. 5	113	22	83	24
Stuckel, Frank C. (See Lee and Stuckel.)						
Stuckey, Harriet T., Manville, S. C. Umbrella-holder.....	606,398	June 28	2515	590	83	1892
Stucki, Arnold, Altoona, Pa. Steam-trap.....	598,824	Feb. 8	1277	309	82	862
Studabaker, Hugh D., Bluffton, assignor to G. R. Craw, Fort Wayne, Ind. Bill-hook	615,921	Dec. 13	1273	297	85	1673
Studams, Milton R., Bridgeton, N. J. Folding umbrella	608,925	Aug. 9	1397	330	84	944
Stull, William B., Bayonne, N. J. Commutator-brush holder	604,220	May 17	1824	409	83	1004
Stump, Ira E., assignor to C. Seemann and J. M. Schneider, Canton, Ohio. Street-sweeper	601,598	Mar. 29	3492	796	82	1967
Stumpf, John, Chicago, Ill. Compressor.....	600,626	Mar. 15	1829	419	82	1606
Stumpf, John, Chicago, Ill. Cut-off mechanism for steam-engines	603,475	May 3	418	93	83	680
Stupakoff, Simon H., Pittsburg, assignor to Union Switch and Signal Company, Swissvale, Pa. Guide for switch and signal rods	612,980	Oct. 25	2472	589	85	519
Sturcke, Herman E., Jamaica, assignor to Aetna Chemical Company, New York, N. Y. Preparing sulfate of lime from residues	601,006	Mar. 22	2475	-----	82	1742
Sturcke, Herman E., assignor to Aetna Chemical Company, New York, N. Y. Amorphous carbonate of lime and method of and apparatus for obtaining same	601,007	Mar. 22	2477	564	82	1742
Sturcke, Herman E., Jamaica, assignor to Aetna Chemical Company, New York, N. Y. Process of and apparatus for making sulfate of lime	601,179	Mar. 22	2757	633	82	1796
Sturcke, Herman E., Jamaica, assignor to Aetna Chemical Company, New York, N. Y. Preparing amorphous carbonate of lime from residues	603,225	Apr. 26	2823	645	83	581
Sturcke, Herman E., Jamaica, assignor to Aetna Chemical Company, New York, N. Y. Preparing amorphous carbonate of lime from residues	603,226	Apr. 26	2827	646	83	582
Sturcke, Herman E., assignor to Alba Chemical Company, New York, N. Y. Screening apparatus	616,033	Dec. 13	1485	347	85	1716
Sturgeon, John C., Erie, Pa. Mechanism for piercing metal ingots	601,783	Apr. 5	311	61, 62	83	59
Sturgeon, John C., Erie, Pa. Mechanism for rolling out hollow metal ingots into tubes	601,784	Apr. 5	313	62	83	59
Sturges, Hiram A. (See Wisner, William O., assignor.)						
Sturges, Joseph C., Aurora, Ill. Harrow.....	603,798	May 10	1001	224	83	812
Sturges, Katherine A., Wilton, and I. Leaycraft, Norwalk, Conn. Game apparatus.....	599,025	Feb. 15	1641	388	82	949
Sturges, Lee, Chicago, Ill. Shuttle for looms	604,804	May 31	2890	661	83	1245
Sturges, Lee, Chicago, Ill. Frame for bicycles, &c	614,905	Nov. 29	3018	691	85	1260
Sturgess, Archibald T., Madrid, Spain. Melting apparatus for solders.....	610,502	Sept. 6	681	153	84	1570
Sturgess, George F., Leicester, England. Knitting-machine	597,092	Jan. 11	1122	264 265 266	82	235
Sturgis, Francis M., Shelbyville, Ill. Bit-brace.....	609,478	Aug. 23	2460	574	84	1181
Sturgis, Samuel, West Manayunk, assignor to J. A. McCullough, Philadelphia, Pa. Dumping-wagon	604,644	May 24	2607	595 596	83	1172
Sturrock, Gordon D., et al. (See Thierry, Michel C. P., assignor.)						
Sturtevant, Charles A., Plainfield, N. J. Machine for making roof-valleys	616,642	Dec. 27	2661	616 617	85	1983
Sturtevant Mill Company. (See Sturtevant, Thomas L. and T. J., assignors.)						
Sturtevant, Orrin L., et al. (See Hendrickson and Read, assignors.)						
Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)						
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Framingham, Mass. Crushing-machine	607,575	July 19	1928	399 400	84	411
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Framingham, Mass., assignors to Sturtevant Mill Company, Portland, Me., and Boston, Mass. Millstone	616,160	Dec. 20	1757	407	85	1787
Stutler, Warner, Washington, D. C. Clamp for reversible brooms	600,956	Mar. 22	2384	544	82	1726
Stutsman, Reuben O., Des Moines, Iowa. Apparatus for popping corn	605,617	June 14	1021	235	83	1567
Styer, Carrie M. (See Cloud, William H., assignor.)						
Stylus Pencil Company. (See Seaman, Herbert H., assignor.)						
Succie, Fred, Brewer, Me. Steam or hot-water heater	601,687	Apr. 5	117	23	83	25
Succie, Fred, Brewer, Me. Curtain-fixture	616,274	Dec. 20	1973	459	85	1830
Suck, Frederick A. (See White, Maurice W., assignor.)						
Suck, Frederick A., Boston, Mass. Voting-machine	600,388	Mar. 8	1395	319 320	82	1505
Suckert, Julius J., et al. (See Grimm, Maximilian, assignor.)						
Suessenguth, Henry, Jr., Holyoke, Mass. Shutter-worker	610,418	Sept. 6	525	114	84	1539
Suetterle, John W. (See Judge, Joseph H., assignor.)						
Suetterle, John W., Milwaukee, Wis. Automatic distributing-nozzle	610,926	Sept. 20	1400	321	84	1747
Sueur, Alfred. (See Valiquet and Sueur.)						
Suffrins, John M., Rahway, N. J. Key-fastener	599,876	Mar. 1	384	86	82	1285
Sulke, Frank J., Philadelphia, Pa. Roller-skate	604,179	May 17	1757	395	83	992
Sullivan, Alonzo T., Malcolm, Nebr. Animal-trap	599,407	Feb. 22	2323	549	82	1100
Sullivan, Cornelius J., Norwood, Mass. Rotary engine	609,711	Aug. 23	2877	672	84	1260
Sullivan, Daniel F. (See White and Sullivan.)						
Sullivan, Daniel F., Lowell, Mass. Knitting-machine	613,808	Nov. 8	1050	239	85	837
Sullivan, Edward J. (See Thompson, Ralph F., assignor.)						
Sullivan, Emma L., et al. (See Horton, Peter D., assignor.)						
Sullivan, Eugene J., River Forest, assignor to Brown Brothers Manufacturing Company, Chicago, Ill. Illuminating-lens for sidewalks	603,799	May 10	1002	224	83	812
Sullivan, Haines W. (See Chalfant, Jefferson D., assignor.)						
Sullivan, Herbert W., London, England. Electrical measuring instrument	602,527	Apr. 19	1615	369	83	337
Sullivan, James, New York, N. Y. Awning-fixture	610,101	Aug. 30	3541	821	84	1405
Sullivan, Jeremiah J. (See Kenna, Thomas M., assignor.)						
Sullivan, Jerome, New Kensington, Pa. Glazier's metallic strip	607,094	July 12	870	188	84	187
Sullivan, John D., Potsdam, N. Y. Flat-iron heater	610,836	Sept. 13	1249	288	84	1701



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Sullivan, John F., assignor to S. Wheaton, Jr., Providence, R. I. Tripod .....	600,654	Mar. 15	1871	{ 427 428	{ 82	1615
Sullivan, John J., Ipswich, Mass. Machine for sewing on buttons .....	600,297	Mar. 8	1252	286	82	1478
Sullivan, John J., Troy, N. Y. Punching-machine .....	603,664	May 10	771	171	83	766
Sullivan Machinery Company. (See Ball, Albert, assignor.)						
Sullivan Machinery Company. (See Ball and Officer, assignors.)						
Sullivan, Mary. (See White and Sullivan, assignors.)						
Sullivan, Meredith O. (See Sell, Leroy A., assignor.)						
Sullivan, Michael E., New Bedford, Mass., assignor of nine-sixteenths to M. Buckley and W. W. Robinson, Pawtucket, R. I. Ring-spinning machine .....	599,539	Feb. 22	2570	602	82	1147
Sullivan, Patrick J., <i>et al.</i> (See Vail, John, assignor.)						
Sullivan, Theodor F., <i>et al.</i> (See Satterwhite, Emmett J., assignor.)						
Sullivan, Warren R. (See Perks, Archibald F., assignor.)						
Sulman, Henry L., and F. L. Teed, London, England. Extraction of precious metals from their ores .....	610,616	Sept. 13	872	-----	84	1625
Sultemeyer, Carl F., assignor of part to H. V. Peters, H. B. Clarke, and P. J. O'Flaherty, Chicago, Ill. Ship's bandage .....	609,307	Aug. 16	2141	507	84	1101
Sulzman, Charles A., Waterford, assignor of one-half to J. Knickerbacker, Troy, N. Y. Fire-hydrant .....	603,295	May 3	86	22	83	618
Summe, David, Darwin, Ind. Twyer .....	598,448	Feb. 1	649	160	82	726
Summers, Arthur I. (See Hussey and Summers.)						
Summers, Bertrand S., and R. J. Barr, assignors to Western Electric Company, Chicago, Ill. Semisteel .....	612,532	Oct. 18	1645	-----	85	340
Summers, George F., Pleasanton, Kans. Sewing-awl .....	596,554	Jan. 4	162	37	82	33
Summers, George F., Pleasanton, Kans. Sewing-awl .....	608,926	Aug. 9	1399	330	84	944
Summers, William T., St. Paul, Minn. Coin or check controlled bicycle-rack .....	600,098	Mar. 1	865	199	82	1383
Sumner, Frederick W., Canton, Mass. Attachment for knitting-machines .....	615,585	Dec. 6	682	157	85	1546
Sumner, John A., Tillar, Ark. Machine for sharpening agricultural implements, &c .....	609,847	Aug. 30	3103	723	84	1318
Sumner, John A., assignor of one-half to T. F. Tillar, Tillar, Ark. Steam-boiler feeder .....	611,871	Oct. 4	486	117	85	97
Sumner, John F., Malden, Mass. Eyeglasses .....	599,950	Mar. 1	513	116	82	1310
Sumner, William J., assignor to Coburn Trolley Track Manufacturing Company, Holyoke, Mass. Trolley-carrier .....	616,813	Dec. 27	2974	693	85	2046
Sundberg, William E., assignor to L. M. Petterson and C. J. Ekstedt, trustees, Worcester, Mass. Telephone-transmitter .....	605,832	June 14	1431	328	83	1644
Sundeen, Alfred D. (See Engstrand, Sundeen, Pope, and Safford.)						
Sundell, Frans R. A., Stockholm, Sweden. Method of and composition for producing imitation stone or wood, &c .....	607,095	July 12	871	-----	84	187
Sundell, John, <i>et al.</i> (See Larson and Branzell, assignors.)						
Sunderland, George C. (See Wertz, Walter J., assignor.)						
Sunderland, Jesse W., assignor of one-half to A. J. McDuffee, Chicago, Ill. Gearing for velocipedes .....	605,933	June 21	1644	377	83	1703
Sundstrom, Carl A., assignor of one-half to W. Johnston, Philadelphia, Pa. Railway-track .....	614,036	Nov. 8	1416	324	85	909
Sundstrom, Herman T., Galveston, Tex. Machine for sealing newspapers .....	603,458	May 3	374	{ 85 86 87	{ 83	672
Sundt, August, assignor to Otis Brothers & Company, New York, N. Y. Control apparatus for elevators .....	603,665	May 10	772	171	83	767
Superheated Water Engine Company. (See Prall, William E. and E. F., assignors.)						
Superior Drill Company. (See Packham, Frank R., assignor.)						
Superior Toe-Calk Company. (See Varney, Joseph T., assignor.)						
Suplee, Henry H., assignor to C. E. Baird, Philadelphia, Pa. Apparatus for generating acetylene gas .....	606,037	June 21	1850	427	83	1739
Supreme Combination Water Heater Company. (See Coe, John S., assignor.)						
Susemihl, Francis G., and A. Torrey, Detroit, Mich. Roller-bearing .....	605,147	June 7	165	41	83	1382
Sussman, Jokub W., assignor of one-half to B. Boley, New York, N. Y. Car-fender .....	600,099	Mar. 1	867	199	82	1383
Sussman, Leon, and A. Hill, New York, N. Y. Window-cleaner .....	610,205	Sept. 6	97	20, 21	84	1459
Sutcliffe, James A., Blackburn, assignor to himself, and G. Paley, Preston, England. Sheet-metal bobbin .....	602,183	Apr. 12	1037	227	83	209
Suter, Robert R., Media, Pa. Removable sprocket-rim .....	601,990	Apr. 5	700	149	83	132
Sutfin, Willis A., Marysville, Cal. Automatic hose-coupling .....	605,238	June 7	333	77	83	1414
Sutherland, James A., Laurie, Canada, assignor of one-third to O. Abeling, Moscow, Idaho. Game apparatus .....	598,879	Feb. 8	1373	331	82	882
Sutherland, Kenneth D., and T. W. Mitchel, assignors of one-third to W. H. Sutherland, Montreal, Canada. Vehicle-tire .....	615,922	Dec. 13	1274	297	85	1673
Sutherland, Robert. (See Barrett, Stevens, and Sutherland.)						
Sutherland, William H. (See Sutherland and Mitchel, assignors.)						
Sutphin, Serena G., New York, N. Y. Thread-holder .....	616,814	Dec. 27	2975	693	85	2046
Sutro, Ludwig, New York, N. Y. Corded skirt-facing .....	607,555	July 19	1897	392	84	405
Sutro, Ludwig, New York, N. Y. Braid-cabinet .....	616,505	Dec. 27	2418	559	85	1938
Sutter, Errolled, and T. Reynolds, Reynoldsville, Pa. Safety hitching device .....	611,528	Sept. 27	2545	587	84	1982
Sutterley, George H., Jr., <i>et al.</i> (See Stewart, Alexander, assignor.)						
Sutterley, Gilbert T., <i>et al.</i> (See Stewart, Alexander, assignor.)						
Sutterley, Gilbert T., Philadelphia, Pa. Alcohol-lamp .....	615,586	Dec. 6	684	157	85	1546
Sutton, Benjamin F., Brooklyn, N. Y. Dress-shield .....	606,251	June 28	2276	526	83	1841
Sutton, George W., New Rochelle, assignor to Phoenix Interior Telephone Company, New York, N. Y. Combined annunciator and spring-jack .....	604,340	May 17	2056	460	83	1049
Sutton, John R. (See Vaughan, Charles W., assignor.)						
Sutton, John R. (See Vaughan, Charles W., assignor.) (Reissue.)						
Sutton, William S., Belvidere, Ill. Rotary engine .....	604,276	May 17	1925	{ 430 431	{ 83	1024
Suydam, John H., Sr., assignor of one-half to I. E. Brown, New Brunswick, N. J. Lath-carrying device for wall-paper or other machines .....	602,375	Apr. 12	1356	303	83	273
Svenson, Nils, Minneapolis, Minn. Horseshoe with removable calks .....	611,717	Oct. 4	225	56	85	46
Swaim, Mary A., St. Joseph, Ill. Steam-cooker .....	607,776	July 19	2275	480	84	476
Swain, Charles C., Stockton, Cal. Mowing-machine .....	616,370	Dec. 20	2147	{ 499 500	{ 85	1864
Swain, Charles F. (See Bush, Martin L., assignor.)						
Swain, Edward A., New York, N. Y. Safety-brake for elevators .....	600,825	Mar. 15	2163	494	82	1670
Swain, Fredrick F., Chicago, Ill. Metallic packing .....	598,123	Feb. 1	87	20	82	619
Swain, Fredrick F., Chicago, Ill. Metallic packing .....	613,734	Nov. 8	918	210	85	811
Swain, Sarah, Los Angeles, Cal. Safety accouchement-chair .....	597,473	Jan. 18	1769	409	82	377
Swan, Alfred F., Bayonne, N. J. Telephone system .....	609,173	Aug. 16	1879	447	84	1047
Swan, Charles, and J. G. Gray, Hillside, Pa. Railway tie and clamp .....	609,848	Aug. 30	3104	723	84	1319
Swan, George E., Beaver Dam, Wis. Heel-spring for boots or shoes .....	604,805	May 31	2891	661	83	1245
Swan, Henry C., Oshkosh, Wis. Spring-shackle for vehicles .....	597,225	Jan. 11	1336	312	82	275



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Swan, Henry C., Oshkosh, Wis. Body-loop for vehicles	597,304	Jan. 11	1453	340	82	299
Swan, Henry C., Oshkosh, Wis. Toe-rail for vehicles	597,568	Jan. 18	1918	446	82	408
Swan, Henry C., Oshkosh, Wis. Spring-shackle for vehicles	597,865	Jan. 25	2434	567	82	523
Swan, Henry C., Oshkosh, Wis. Antirattling device for fifth-wheels	598,397	Feb. 1	552	135	82	707
Swan, Henry C., Oshkosh, Wis. Adjustable step pad	598,398	Feb. 1	553	135	82	707
Swan, Henry C., Oshkosh, Wis. Screw-clamp	600,389	Mar. 8	1398	320	82	1506
Swan, Henry C., Oshkosh, Wis. Adjustable vehicle-iron	604,198	May 17	1786	402	83	997
Swan, Henry C., Oshkosh, Wis. Step-pad	605,357	June 7	576	127	83	1462
Swan, Henry C., Oshkosh, Wis. Spring-shackle	613,480	Nov. 1	497	111	85	710
Swan, Henry C., Oshkosh, Wis. Step for vehicles	613,534	Nov. 1	574	130	85	725
Swan, Henry C., Oshkosh, Wis. King-bolt socket	614,256	Nov. 15	1834	424	85	1008
Swan, James, Topeka, Kans. Journal-bearing	607,576	July 19	1931	401	84	412
Swan, Swan N., Chicago, Ill. Securing apparatus for use in piano construction	616,430	Dec. 20	2255	526	85	1885
Swanger, Homer, Mishawaka, Ind. Folding cigar-box	598,542	Feb. 8	811	194	82	774
Swank, Charles H., Linville, Va. Tongue-support	603,387	May 3	242	55	83	647
Swank, David E. (See Barzee, Emery S., assignor.)						
Swanson, Charles L., Pierre, S. D. Piano-stool	600,812	Mar. 15	2143	490	82	1667
Swanson, Olof W., Tacoma, Wash. Trolley	610,927	Sept. 20	1402	321	84	1747
Swanson, Sven G. (See Wieland, Charles F., assignor.)						
Swanzy, Francis, <i>et al.</i> (See Thame, Henry, assignor.)						
Swart, Lester D. (See Stevens and Swart.)						
Swart, Lester D., assignor to A. W. Stevens & Son, Auburn, N. Y. Self-feeder for corn-husking machines	596,921	Jan. 4	807	191	82	158
Swarth, August C., Chicago, Ill. Washboard	611,529	Sept. 27	2546	588	84	1983
Swartz, Harry E., Reading, Pa. Soap-press	604,436	May 24	2234	501	83	1103
Swartz, Robert E., assignor of one-half to H. E. W. Barnes, Creston, Iowa. Ball-and-socket clamp	605,527	June 14	850	199	83	1536
Swartz, Robert E., assignor of one-half to C. F. Skirvin, Creston, Iowa. Music-leaf turner	606,252	June 28	2277	526	83	1841
Swayze, Caleb L., Mobile, Ala. Packing and lubricating compound	601,180	Mar. 22	2760		82	1797
Swearingen, James A., Milan, Mo. Churn	616,371	Dec. 20	2149	500	85	1865
Swearingen, John T. (See Sanders and Swearingen.)						
Sweeney, Dennis, Belleville, Kans. Railway-track gage	597,305	Jan. 11	1453	341	82	299
Sweeney, Henry G., Chicago, Ill. Machine for vending liquids	611,225	Sept. 20	1963	452	84	1853
Sweeney, Henry G., Chicago, Ill. Vending-machine	611,226	Sept. 20	1964	453	84	1853
Sweeney, James J. (See Kollenberg, Frederick G., assignor.)						
Sweeney, James M., Somerville, Mass. Lock	598,399	Feb. 1	553	135	82	707
Sweeney, John, New York, N. Y. Horseshoe-pad	602,485	Apr. 19	1547	352	83	324
Sweeney, Peter, Toronto, Canada. Window-washer	603,414	May 3	297	66	83	657
Sweeny, Charles, <i>et al.</i> (See Poetz, John C., assignor.)						
Sweet, Arthur J., assignor of one-half to H. P. Glover, Ypsilanti, Mich. Track-drill	601,619	Mar. 29	3523	803	82	1973
Sweet, Benjamin W., Knoxville, Tenn. Gold-separating machine	602,113	Apr. 12	906	196	83	184
Sweet, Frederick D., Elyria, Ohio. Electric railway	604,911	May 31	3082	708	83	1282
Sweet, Frederick D., Elyria, Ohio. Electric railway	612,068	Oct. 11	850	207	85	176
Sweet, Leonard W., <i>et al.</i> (See Howard, William H., assignor.)						
Sweete, Frank. (See Ross, Barney, assignor.)						
Sweeting, James A., assignor of one-half to J. A. Cambridge, New York, N. Y. Combined knife and scoop	605,209	June 7	282	65	83	1403
Sweetland, John B., Lynn, Mass. Size-stick	598,034	Jan. 25	2716	634	82	576
Sweigard, Emanuel W., Chicago, Ill. Photographic-printing frame	603,713	May 10	851	189	83	783
Sweigard, Emanuel W., Chicago, Ill. Combination-tool for bicycles	605,453	June 7	741	168	83	1495
Sweigart, Webster W., York Road, Md. Nut-lock	606,253	June 28	2279	526	83	1842
Sweigart, Webster W., York Road, Md. Nut-lock	614,672	Nov. 22	2592	589	85	1162
Sweitzer, William H., Danville, Ill. Die-stock	603,930	May 10	1250	284	83	859
Swenson, Lorens, Cresco, Iowa, assignor of one-half to L. Barsness, Pekin, Ill. Reciprocating valve	616,275	Dec. 20	1975	460	85	1830
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, New York, N. Y. Mechanism for cleaning seed-cotton	599,575	Feb. 22	2642	619	82	1161
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, New York, N. Y. Cotton-gin	608,729	Aug. 9	1001	229	84	871
Swenson, Magnus, Chicago, Ill., assignor, by mesne assignments, to American Cotton Company, New York, N. Y. Cotton-press	614,186	Nov. 15	1681	387	85	981
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, of New Jersey. Automatic relief-valve	607,491	July 19	1781	371	84	385
Swerer, E. J. (See Sells, Frank H., assignor.)						
Swett, Albert L., Medina, N. Y. Barrel-heading press	610,206	Sept. 6	98	21	84	1459
Swett, Otis D. (See Fogler, George L., assignor.)						
Swickard, Clarence O., Janesville, Ill. Trace-fastener	607,967	July 26	2664	569	84	568
Swickard, Clarence O., Jackson Centre, Ohio. Non-refillable bottle	611,718	Oct. 4	227	56	85	46
Swift, Edwin E., Paterson, N. J. Lunch-box	607,294	July 12	1241	264	84	256
Swift, Frank E., Washington, Iowa. Furnace	606,254	June 28	2281	527	83	1842
Swift, George W., Jr., Bordentown, N. J. Printing-machine	602,277	Apr. 12	1192	262	83	240
Swift, Horace E., Boston, assignor to Watson & Newell Company, Attleborough, Mass. Cuff-button	609,564	Aug. 23	2597	607	84	1206
Swift, Orrin W., New Haven, Conn. Flushing attachment for sink-strainers	601,360	Mar. 29	3104	701	82	1890
Swift, Orrin W., New Haven, Conn. Apparatus for cooling and purifying liquids	605,685	June 14	1151	267	83	1592
Swift, William R., assignor to Gordon-Mitchell Gas Lamp Company, New York, N. Y. Detachable globe-support for lamps	599,877	Mar. 1	385	86	82	1286
Swihart, James, Riota, Ohio. Car-coupling	611,656	Oct. 4	112	28	85	25
Swihart, James, Riota, Ohio. Mail-bag holder	611,801	Oct. 4	359	87	85	72
Swihart, John H., assignor to National Computing Scale Company, Cleveland, Ohio. Computing-scale	597,922	Jan. 25	2522	589	82	538
Swihart, John H., assignor to National Computing Scale Company, Cleveland, Ohio. Scale	603,415	May 3	298	67	83	657
Swihart, John H., assignor to National Computing Scale Company, Cleveland, Ohio. Spring-balance scale	612,069	Oct. 11	852	207	85	177
Swihart, John H., assignor to National Computing Scale Company, Cleveland, Ohio. Computing-scale	616,743	Dec. 27	2858	663	85	2022
Swindle, William, Pittsburg, Pa. Furnace for heating billets, blooms, &c	915,465	Dec. 6	465	109	85	1502
Swinglehurst, Harry, Jr. (See Williams and Swinglehurst.)						
Swink, Charlie E., Chicago, Ill. Medicine-carton	602,668	Apr. 19	1876	426	83	385
Swisher, Charles M., assignor to S. N. Gerber, Medaryville, Ind. Nut-lock	608,162	July 26	3009	647	84	638



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Swisher, John F. (See Stewart and Swisher.)						
Switzer, Arthur H., Springfield, Mass. Bedstead-fastening	616,034	Dec. 13	1487	347 348	85	1716
Switzer, Edmund C., Grayson, Ky. Window-shade bracket	608,236	Aug. 2	118	29	84	677
Swyny, Annie, administratrix (See Swyny and McDonald.)						
Swyny, Henry V., deceased, (A. Swyny, administratrix,) and J. H. McDonald, Butte, Mont. Fire-escape	607,556	July 19	1897	392	84	405
Syburg, Carl A. M., von. (See Hitz and Syburg.)						
Sydenham, Arthur. (See Sydenham, Watkinson, and Sydenham.)						
Sydenham, William C., <i>et al.</i> (See Patton, Oliver C., assignor.)						
Sydenham, William, F. Watkinson, and A. Sydenham, London, England. Driving-gear for motor-cars	606,311	June 28	2379	550 551	83	1862
Sykes, Joshua W., Detroit, Mich. Holder for nursery-bottles. (Reissue)	11,665	May 17	2089	468	83	1055
Sylvén, Walfrid T., Washington, D. C. Marine boiler	606,847	July 5	400	85	84	80
Sylvester, Alonzo H. (See Mehner, Carl H., assignor.)						
Sylvester, Herbert M. (See Sargent, James F., assignor.)						
Sylvester, Richard, Washington, D. C. Device for displaying pictures, &c	605,148	June 7	167	42	83	1382
Sylvester, Richard, Washington, D. C. Device for displaying pictures, advertisements, &c	606,173	June 21	2103	483	83	1787
Symes, Henry, Alexandra South, New Zealand. Mechanism for propelling vehicles	603,518	May 3	512	111 112	83	699
Symes, Henry, Dunedin, New Zealand. Back-pedaling brake	611,154	Sept. 20	1827	421	84	1828
Symes, James E., Bancroft, Mich. Adjustable window screen	599,664	Feb. 22	2821	656	82	1198
Symington, John, Glasgow, Scotland. Combined pumping and winding machinery	611,085	Sept. 20	1696	390	84	1803
Symington, Scott, Sydney, New South Wales. Cuff-button	612,126	Oct. 11	952	230	85	196
Symonds, Clarence M., San Francisco, Cal. Grocer's caddy	607,198	July 12	1051	228	84	220
Symonds, William H., assignor of one-half to E. Jepson, New York, N. Y. Bicycle-gear	616,744	Dec. 27	2861	663	85	2023
Syracuse Handle Bar Company. (See Palmiter, Samuel, assignor.)						
Syssoyeff, Alexis, and L. Braly, Lyons, France. Autoluminous composition	606,693	July 5	106		84	23
Syttle, Nicholas E. (See Hewson, Edward M., assignor.)						
Syverson, Amand, Pleasant Valley, assignor to S. A. and H. Syverson, Dallas, Wis. Lock	616,210	Dec. 20	1840	425	85	1802
Syverson, Henry, <i>et al.</i> (See Syverson, Amand, assignor.)						
Syverson, S. A., <i>et al.</i> (See Syverson, Amand, assignor.)						
Szabó, Avelin, Terre Haute, Ind., assignor to D. J. Moroney, Marshall, Ill. Combined pocket aspersorium and incense-holder	609,308	Aug. 16	2143	508	84	1101
Szenhak, Stanislas, Warsaw, Russia, assignor to J. Witkowski, Yokohama, Japan. Pen-cil-box	613,432 602,486	Nov. 1 Apr. 19	404 1548	92 352	85 83	693 324
Szulezewski, Antoni and J., South Bend, Ind. Pneumatic cushion						
Szulezewski, Joseph. (See Szulezewski, Antoni and J.)						
T. B. Laycock Manufacturing Company. (See Laycock and Lytle, assignors.)						
T. B. Laycock Manufacturing Company. (See Tucker, William, assignor.)						
T. G. Mandt Vehicle Company. (See Mandt, Targe G., assignor.)						
Tabb, Samuel Y., Brooklyn, N. Y. Cigar-tip cutter	599,878	Mar. 1	387	87	82	1286
Tabb, Samuel Y., New York, N. Y. Cigar-tip cutter	599,879	Mar. 1	388	87	82	1286
Taber, Fred C. (See Russ, Hiram P., assignor.)						
Tabler, Frank C. (See Wilcox, Walter H., assignor.)						
Tabler, Frank C., St. Louis, Mo. Awning	611,872	Oct. 4	488	118	85	97
Tabler, John H., Lanham's, Md. Poncho-holder	608,927	Aug. 9	1401	331	84	944
Taccone, Nicholas. (See Catanzano and Taccone.)						
Tachauer, Adolphe, Marseilles, and L. Braly, Lyons, France. Composition for making matches	603,666	May 10	777		83	768
Tachytype Manufacturing Company. (See Johnson, Frank A., assignor.)						
Tackle, Arnold J., Oakland, Cal. Gas-generator	600,298	Mar. 8	1254	286	82	1478
Tackle, Arnold J., Oakland, Cal. Electric igniter for gas-engines	606,312	June 28	2350	552	83	1862
Tauber, Oscar J., La Crosse, Wis. Copying-press	616,745	Dec. 27	2862	663 664	85	2023
Taft, Alison W., Woodstock, Vt. Railway-tie	615,923	Dec. 13	1275	298	85	1673
Taft, George W., Kennett Square, Pa. Tongue-truck connection for reversible road-rollers	601,819	Apr. 5	372	78	83	70
Taft, John B. (See Preston, William C., assignor.)						
Taft, Walter E., assignor to I. W. Sawin, Providence, R. I. Billiard-cushion	599,371	Feb. 22	2245	533	82	1085
Taft, Walter E., assignor to I. W. Sawin, Providence, R. I. Driving mechanism for bicycles	600,752	Mar. 15	2049	468	82	1649
Taft, Walter E., Providence, R. I., assignor to Universal Manufacturing Company, of Maine. Driving mechanism for bicycles	614,999	Nov. 29	3213	739	85	1301
Tager, Joseph. (See Cotter and Tager.)						
Tagliabue, Charles J. (See Papendell, Robert, assignor.)						
Tague, John C., New York, N. Y. Baby-carriage	598,210	Feb. 1	250	55	82	649
Tait, Felix B., Decatur, Ill. Corn-sheller	605,934	June 21	1646	378	83	1703
Talbert, Daniel H., Knightstown, Ind. Coffee or tea pot	597,483	Jan. 18	1788	413	82	381
Talbert, Daniel H., Knightstown, Ind. Burglar and fire alarm	601,181	Mar. 22	2761	633	82	1797
Talbert, Sylvanus D., Ouray, Colo. Can-opener	601,182	Mar. 22	2763	633	82	1797
Talbert, Sylvanus D., Ouray, Colo. Bicycle-lock	601,599	Mar. 29	3493	796	82	1968
Talbot, Benjamin, Pencoyd, Pa. Manufacture of open-hearth steel	599,290	Feb. 15	2073		82	1029
Talbot, William O., Biloxi, Miss. Dental instrument	607,295	July 12	1242	265	84	256
Talcott, Asa. (See Lobdell and Talcott.)						
Talen, Maurice, and G. H. Croft, Geneseo, Ill. Ripping attachment for sewing-machines	603,931	May 10	1252	285	83	859
Taliaferro, John C., Baltimore, Md., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Reducing tin oxid or dross to pure metallic tin	616,161	Dec. 20	1760		85	1787
Taliaferro, Sinclair. (See Campbell, Douglas M., assignor.)						
Talley, Orren P. (See Entwistle, Starr, Talley, and Lorange.)						
Talley, William H., assignor of nine-tenths to G. H. Williams, C. B. Eames, and C. R. Sherrill, Waco, Tex. Rail-bond	610,004	Aug. 30	3392	786	84	1375
Tallmadge, James W., Boston, Mass. Exudation-cap	599,372	Feb. 22	2246	533	82	1085
Tallman, George W., New York, N. Y. Animal-feeding device	599,748	Mar. 1	127	29	82	1240
Tallman, George W., assignor to Changeable Illuminating Indicator Company, New York, N. Y. Car-indicator	614,143	Nov. 15	1611	369	85	968
Tandy, John L., and W. E. Rader, Columbia, Mo. Bunching attachment for mowing-machines	606,902	July 5	479	103 104	84	95
Taneyhill, O. B. (See Kelly, Henry, assignor.)						
Tanner, Albert C., Jersey City, N. J., assignor to F. W. Beardsley, New York, N. Y. Drive and brake mechanism for bicycles	612,790	Oct. 18	2132	506 507	85	433
Tanner, Benjamin, Sturgis, Mich. Hay-rack	608,310	Aug. 2	249	56, 57	84	704
Tanner, George W., Providence, R. I. Cigar-cutting machine	596,728	Jan. 4	487	111	82	94
Tanner, William J., London, England. Folding pedal for cycles	599,978	Mar. 1	556	128	82	1318
Tanner, William J., London, England. Bicycle	609,634	Aug. 23	2756	643	84	1237



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Tanners' and Curriers' Machinery Company. (See Turner, William B., assignor.)						
Tanzer, Sigmund, <i>et al.</i> (See Vail, John, assignor.)						
Tarbell, Reuben J. (See Garr, Horace S., assignor.)						
Tarbox, Edward, Jr., Hancock, N. Y. Antirattler and shaft-coupling	609,375	Aug. 16	2246	531	84	1122
Tarbox, Ubert P., Toronto, Canada. Clothes rack or drier	604,437	May 24	2234	501	83	1103
Tarby, Arthur. (See Edson and Tarby.)						
Tarver, George W., London, England. Bicycle-trainer	602,546	Apr. 19	1650	375	83	343
Tarver, Peyton B., Ardmore, Ind. Ter. Tip-fastener for billiard-cues	601,913	Apr. 5	559	115	83	106
Tashiro, Frank, New York, N. Y. Device for holding sewing materials, &c	607,897	July 26	2544	539	84	546
Tasker, Vernon C. (See Driggs and Tasker.)						
Tasker, Vernon C., Washington, D. C. Breech-loading ordnance	599,482	Feb. 22	2470	581	82	1128
Tassell, George W. (See Gipe, Emanuel C., assignor.)						
Tate, James E., Cincinnati, Ohio. Kitchen-cabinet	603,667	May 10	778	172	83	768
Tate, James E., Baltimore, Md. Kitchen-cabinet	610,102	Aug. 30	3542	821	84	1406
Tatham, George. (See Lee, Elliott, and Tatham.)						
Tatro, Joseph L., New Bedford, Mass. Bicycle	602,609	Apr. 19	1755	400	83	362
Tattersall, Robert F., Salt Lake City, Utah. Non-refillable bottle	597,474	Jan. 18	1770	409	82	378
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Glass-molding apparatus	612,465	Oct. 18	1542	370	85	320
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Jar	615,322	Dec. 6	171	44	85	1446
Täuber, Ernst, Berlin, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Making amidins	596,797	Jan. 4	604		82	116
Taulman, Joseph E., Hubbard City, Tex. Calipers and dividers	607,296	July 12	1244	265	84	257
Taunton Locomotive Manufacturing Company. (See Billings and Collins, assignors.)						
Tawa, Frederick A., New York, N. Y. Knickerbocker trousers	616,506	Dec. 27	2419	560	85	1938
Taylor, Allan, assignor of two-thirds to D. W. Chase, Boston, and M. Chase, Haverhill, Mass. Post-visual reflector	614,673	Nov. 22	2594	589	85	1162
Taylor, Andrew J., Vineland, N. J. Electrical belt	604,806	May 31	2892	661	83	1245
Taylor, Angie E., Kennedy, N. Y. Clasp	607,297	July 12	1245	265	84	257
Taylor, Arthur O., New York, N. Y. Steering-gear	616,211	Dec. 20	1841	425	85	1802
Taylor, Asa, Attica, Kans. Apparatus for cooling water	612,635	Oct. 18	1856	439	85	379
Taylor, Charles, assignor of two-thirds to G. Saunderson, Montreal, and G. P. Magann, Toronto, Canada. Tire	601,763	Apr. 5	273	53	83	52
Taylor, Charles E., Ocala, Fla. Horse-detaching device	609,921	Aug. 30	3227	756	84	1342
Taylor, Charles G., assignor of one-twelfth to C. G. Ainslie, Burlingame, Kans. Rotary engine	615,114	Nov. 29	3427	786	85	1339
Taylor, Charles H., Didsbury, England. Pneumatic tire for wheels	600,656	Mar. 15	1874	428	82	1615
Taylor, Charles J., Shelbyville, Ill. Coin-chute	611,530	Sept. 27	2547	588	84	1983
Taylor, Clarence W., Sioux City, Iowa. Mucilage-holder	610,103	Aug. 30	3544	822	84	1406
Taylor, David W., Washington, D. C., assignor to Yarrow Schlick & Tweedy System, Limited, London, England. Steam-engine	614,674	Nov. 22	2595	589	85	1162
Taylor, Edwin, Birmingham, England. Tool for joining bicycle-tubes	611,802	Oct. 4	360	87	85	73
Taylor, Ezra, assignor of one-half to E. M. Padget, Attica, Kans. Wire stretcher and splicer	610,160	Aug. 30	3633	845	84	1425
Taylor, Frank B. (See Salisbury and Dean, assignors.)						
Taylor, Frank B., E. E. Salisbury, and A. E. Dean, Tacoma, Wash. Signaling device	605,358	June 7	576	127	83	1462
Taylor, Frank H., <i>et al.</i> (See Knudsen, Jacob B., assignor.)						
Taylor, Franklin, Wilmington, Del. Hand-grip for handles	616,746	Dec. 27	2864	664	85	2023
Taylor, Fred. (See Taylor, John and F.)						
Taylor, Frederick W. (See Fairbanks and Taylor.)						
Taylor, Frederick W., assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Weighing-scale	597,697	Jan. 18	2138	499	82	448
Taylor, Freeman B., Warren, Ohio. Clothes-line reel	616,747	Dec. 27	2865	664	85	2023
Taylor, George H., near Rockdale, assignor of two-thirds to R. C. and D. R. Wallis, Rockdale, Tex. Clevis	605,656	June 14	1101	253	83	1582
Taylor, George H., assignor to Kursheedt Manufacturing Company, New York, N. Y. Trimming	615,323	Dec. 6	172	45	85	1446
Taylor, George W., Belton, assignor of one-half to W. A. Breckenridge, Laurens, S. C. Gin-saw sharpener	600,458	Mar. 8	1522	349	82	1528
Taylor, Harrison G., Montreal, Canada. Trolley-base	607,612	July 19	1998	414	84	424
Taylor, Harrison H., Detroit, assignor of one-half to G. Thrall, Grosse Isle, Mich. Sectional boiler	606,313	June 28	2382	552	83	1862
Taylor, Henry H., Bridgeport, Conn. Bustle	601,361	Mar. 29	3107	702	82	1891
Taylor, Hiram, Salem, Ohio. Milk-can	599,153	Feb. 15	1847	438	82	987
Taylor, Hiram, Salem, Ohio. Sash holder and fastener	599,154	Feb. 15	1849	438	82	987
Taylor, Hiram, assignor of one-half to J. F. Tescher, Salem, Ohio. Cattle-stanchion	608,730	Aug. 9	1005	230	84	872
Taylor, Izora. (See Taylor, James H. and I.)						
Taylor, James, Heathercliffe Helsby, England. Telephone-switchboard plug	604,094	May 17	1593	358	83	959
Taylor, James, and J. F. Flad, Philadelphia, Pa. Attachment for knitting-machines	611,951	Oct. 4	618	151	85	121
Taylor, James H., Toledo, Ohio. Washing-machine	599,540	Feb. 22	2571	603	82	1147
Taylor, James H. and I., Philadelphia, Pa. Plaiting-board	601,362	Mar. 29	3108	702	82	1891
Taylor, James W. (See Prichard and Taylor.)						
Taylor, James W., Herndon, Va., assignor to United States Sanitary Company, of Virginia. Dumping-cart	605,029	May 31	3264	749	83	1317
Taylor, Jeremiah C. (See Taylor, Zachary and J. C.)						
Taylor, John. (See Kilby and Taylor.)						
Taylor, John, Troy, N. Y. Railway-car truck	598,449	Feb. 1	650	160	82	727
Taylor, John and F., Leeds, England. Machine for pulling or plucking rabbit-skins	603,235	June 28	2282	527	83	1842
Taylor, John B., Palmyra, Mo. Horse-detacher	611,342	Sept. 27	2192	507	84	1916
Taylor, John D., Chillicothe, Ohio. Railway signaling and switching apparatus	635,359	June 7	580	128	83	1463
Taylor, John D., Chillicothe, Ohio. Railway-crossing signal	615,762	Dec. 13	996	233	85	1620
Taylor, John H., assignor to J. H. Wilson & Co., Cohoes, N. Y. Cutting-machine	601,719	Apr. 5	188	36, 37	83	37
Taylor, John S., assignor to Winsor & Newton, Limited, London, England. Collapsible tube for plastic and liquid materials	607,530	July 19	1845	383	84	397
Taylor, John T., New York, N. Y. Safety device for elevators	640,535	Mar. 29	3400	771	82	1949
Taylor, John T., New York, N. Y. Elevator safety mechanism	601,536	Mar. 29	3402	771	82	1950
Taylor, Joseph B., and H. V. Walker, Brooklyn, N. Y. Process of and apparatus for recovering ammonia and waste products from garbage	603,668	May 10	779	172	83	768
Taylor, Joseph H., Lewisport, Ky. Plow-fender	615,588	Dec. 6	688	158	85	1547
Taylor, Joseph W., Wilkesburg, assignor of one-half to H. W. McIntosh, Pittsburg, Pa. Water-heater	609,596	Aug. 23	2656	621	84	1216
Taylor, Leslie B. (See Deeley and Taylor.)						
Taylor, Percy B., Newark, N. J. Rotary engine	597,793	Jan. 25	2312	539	82	499



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Taylor, Perry D., Watertown, N. Y. Apron-board for paper-making machines	598,400	Feb. 1	557	136	82	708
Taylor, Richard, assignor of one-half to C. W. Miller, Wadena, Minn. Sailing vessel	597,191	Jan. 11	1278	299	82	265
Taylor, Robert, Adelaide, South Australia. Combined reciprocating concentrator and amalgamator	598,543	Feb. 8	812	194	82	774
Taylor, Robert, Jr., and L. Dunkerley, Jr., Oldham, England. Machine for sharpening saws	599,114	Feb. 15	1780	423 424 425	82	975
Taylor, Scott & Co. (See Keesee, Frank P., assignor.)						
Taylor, W. E., <i>et al.</i> (See Downa, James R., assignor.)						
Taylor, Walter, Brisbane, Queensland. Hand driving-gear for cycles	605,559	June 14	906	211 212	83	1548
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Combination-lock	600,900	Mar. 22	2296	523	82	1708
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Latch-operating mechanism	608,489	Aug. 2	568	127	84	768
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock and latch	611,155	Sept. 20	1829	421	84	1828
Taylor-Wells Co. (See Wells, Edward J., assignor.)						
Taylor, William, Union City, Tenn. Reversible rotary engine	599,665	Feb. 22	2823	656	82	1198
Taylor, William, Edinburgh, Scotland. Apparatus for heating air for therapeutic or other purposes	608,928	Aug. 9	1402	331	84	945
Taylor, William, Ballarat, Victoria. Bicycle-brake	610,104	Aug. 30	3546	822	84	1406
Taylor, William L. (See Weddel, Jewett, Taylor, and Bellis.)						
Taylor, William O. (See Tree, Eber B., assignor.)						
Taylor, William R., Racine, Wis. Faucet	614,517	Nov. 22	2309	529	85	1111
Taylor, William R., Rochester, England. Aluminium cask	616,563	Dec. 27	2514	581 582	85	1955
Taylor, Zachary and J. C., La Porte, Ind. Fence	598,754	Feb. 8	1174	282	82	842
Taylor, Zane B., Orbisonia, Pa. Folding crate	616,162	Dec. 20	1761	407 408	85	1787
Teamer, James M., Palestine, Tex. Protected rail-joint	602,782	Apr. 19	2053	466	83	420
Tebbetts, Charles F., Boston, Mass. Grinding-machine	597,033	Jan. 11	1003	236	82	211
Tebbetts, Charles F., Boston, Mass., assignor to Tebbetts Labelling Machine Company, of West Virginia. Pneumatic labeling-machine	603,669	May 10	782	172 173	83	768
Tebbetts Labelling Machine Company. (See Tebbetts, Charles F., assignor.)						
Tebbutt, Elizabeth G., Albany, N. Y. Pad-holder	597,034	Jan. 11	1003	237	82	211
Tebbutt, Elizabeth G., Albany, N. Y. Pad-holder	597,035	Jan. 11	1005	237	82	212
Tee, Harry, Liverpool, England. Salt-pan	609,128	Aug. 16	1802	429	84	1033
Teed, Frank L. (See Sulman and Teed.)						
Teehan, John F., Worcester, Mass., assignor of one-half to J. H. Shedd, Providence, R. I. Last	609,244	Aug. 16	2020	479	84	1077
Teehan, Michael, New York, N. Y. Beer or ale pipe cleaner	609,635	Aug. 23	2757	643	84	1237
Teel, John, Atlanta, Ga. Placket-fastener	600,957	Mar. 22	2386	544	82	1726
Teetor, Charles N. (See Deardorff and Teetor.)						
Teetor, Charles N., Hagerstown, Ind. Railway-velocipede	598,450	Feb. 1	652	161	82	727
Tegart, William M., Yorkton, Canada. Carrier for bicycles, &c	606,367	June 28	2485	577	83	1881
Telephone Manufacturing Company. (See Mason, Charles T., assignor.)						
Telford, Samuel W., Little Rock, Ark. Nut-lock	601,688	Apr. 5	118	23	83	25
Tellefsen, Theodore J. (See Crosby and Tellefsen.)						
Tellefsen, Theodore J., Newark, N. J., assignor to Hyatt Roller Bearing Company, of New Jersey. Guide-frame for loose rolls in journal-bearings	604,572	May 24	2491	567	83	1149
Temperley, Joseph, London, England. Means for supporting ropes of elevated carriers	615,370	Dec. 6	280	64, 65	85	1467
Temple, Ansel F., Muskegon, Mich. Bicycle-frame	609,952	Aug. 30	3286	766	84	1354
Temple, Frederic L., St. John, Canada. Electric-light switch	606,746	July 5	210	45	84	43
Temple, Morris D., Chicago, Ill. Pump	597,155	Jan. 11	1220	287	82	253
Temple, Oscar, Jefferson City, Mo. Bicycle-pump	597,226	Jan. 11	1336	312	82	275
Temple, William C., Pittsburg, Pa. Steam-boiler	613,332	Nov. 1	197	43, 44	85	655
Temple, William C., Pittsburg, Pa. Steam-boiler	615,644	Dec. 6	790	183	85	1569
Templeman, Robert L., Tackett's Mills, Va. Shipping-crate	603,888	May 3	244	55	83	647
Templeton, John S., Glasgow, Scotland. Chenille and chenille fabric	616,748	Dec. 27	2867	664	85	2024
Templin, Joseph H., assignor to Diamond Drill and Machine Company, Incorporated, of Birdsborough, Pa. Wire-coil machine	608,805	Aug. 9	1144	265 266	84	898
Ten Winkel, Herman, Denver, Colo., assignor of one-half to D. Linn, Grosse Isle, Mich. Oil-extractor	612,791	Oct. 18	2137	507	85	434
Tengvall, Andreas, Helsingborg, Sweden. Letter-file	615,115	Nov. 29	3429	787	85	1339
Tenney, Frank M., Decatur, Ill. Scoop-board	604,807	May 31	2895	662	83	1246
Tenny, Herbert D., Milford, Mich. Electric time-alarm	612,441	Oct. 18	1500	362	85	313
Tenny, John W., and R. T. McCracken, New Orleans, La. Dental plugger	611,531	Sept. 27	2549	588	84	1983
Tepel, Christian, Bennett, Pa. Electric-arc lamp	599,880	Mar. 1	390	87	82	1287
Tepel, Christian, Bennett, Pa., assignor to Aurora Arc Lamp Manufacturing Company, of Pennsylvania. Electric-arc lamp	599,305	Feb. 15	2100	497 498	82	1034
Terramorse, Frank, San Francisco, Cal. Convertible garment and tent	608,351	Aug. 2	334	73	84	722
Terrell, Albert C., and S. McClure, Oskaloosa, Iowa. Stove	606,694	July 5	107	23	84	24
Terrell, George J., Meriden, Conn. Smoke, soot, and spark destroyer	600,048	Mar. 1	765	174	82	1363
Terrell, John S., Marshall, Mo. Paddle-wheel	611,293	Sept. 27	2107	485	84	1901
Terrell, Thomas, London, England. Bicycle-brake	600,459	Mar. 8	1528	350	82	1529
Terrill, Alfred M., Picton, Canada. Fruit-picker	598,401	Feb. 1	559	136	82	708
Terrot, Charles, Cannstadt, Germany, assignor to M. Boas, St. Hyacinthe, Canada. Knitting-machine	605,065	May 31	3323	763 764	83	1328
Terry, Charles A., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Current-collecting means for electric-railway vehicles	597,306	Jan. 11	1455	341	82	300
Terry, Charles A., New York, N. Y., and H. P. Davis, assignors to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Contact device for electric railways	606,825	July 5	356	75	84	71
Terry, Charles A., New York, N. Y., and H. P. Davis, assignors to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Current-collecting apparatus for electric railways	606,826	July 5	359	76	84	72
Terry, Charles A., New York, N. Y., and H. P. Davis, assignors to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Overhead construction for electric railways	606,827	July 5	362	76	84	72
Terry, Edward F., New York, N. Y. Stiff-leg or guy derrick	614,518	Nov. 22	2310	529	85	1111
Terry, Joseph W., Brewton, Ala. Planter and fertilizer-distributor	601,537	Mar. 29	3403	772	82	1950
Tersling, Hilmar, assignor to J. Caroe, N. Schmidth, and E. Schiemann, Copenhagen, Denmark. Fire-alarm	609,309	Aug. 16	2144	508	84	1102
Terstegen, Fred, Elizabeth, N. J. Stem winding and setting watch	599,459	Feb. 22	2425	571	82	1120
Tesch, Charles H., Milwaukee, Wis. Fastener	601,289	Mar. 29	2985	674	82	1868



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Teschler, John F. (See Taylor, Hiram, assignor.)						
Teske, Charles L., Hartford, Conn. Winding mechanism for timepieces	607,144	July 12	955	207 208	84	202
Teske, Charles L., Hartford, Conn. Winding mechanism for timepieces	607,145	July 12	959	208	84	203
Tesla, Nikola, New York, N. Y. Electrical-circuit controller	609,245	Aug. 16	2021	479	84	1078
Tesla, Nikola, New York, N. Y. Electric-circuit controller	609,246	Aug. 16	2024	480	84	1078
Tesla, Nikola, New York, N. Y. Electric-circuit controller	609,247	Aug. 16	2026	480	84	1079
Tesla, Nikola, New York, N. Y. Electric-circuit controller	609,248	Aug. 16	2028	480	84	1079
Tesla, Nikola, New York, N. Y. Electric-circuit controller	609,249	Aug. 16	2030	480	84	1079
Tesla, Nikola, New York, N. Y. Electrical igniter for gas-engines	609,250	Aug. 16	2032	481	84	1080
Tesla, Nikola, New York, N. Y. Electric-circuit controller	609,251	Aug. 16	2033	481	84	1080
Tesla, Nikola, New York, N. Y. Electrical-circuit controller	611,719	Oct. 4	228	56	85	47
Tesla, Nikola, New York, N. Y. Electric-circuit controller	613,735	Nov. 8	921	211	85	812
Tesla, Nikola, New York, N. Y. Method of and apparatus for controlling mechanism of moving vessels or vehicles	613,809	Nov. 8	1052	239 240	85	837
Tesseyman, Henry, assignor to Barney & Smith Car Company, Dayton, Ohio. Car-truck	598,258	Feb. 1	330	76	82	664
Tesseyman, Henry, and J. Kirby, Jr., Dayton, Ohio; said Tesseyman assignor to said Kirby. Car-seat	610,289	Sept. 6	287	62	84	1497
Teti, Ettore. (See Travaglini and Teti.)						
Texas Implement and Machine Company. (See Schofield, James D., assignor.)						
Thacher, Francis, Chicago, Ill. Meat-hook support	607,096	July 12	872	188	84	187
Thacher, George H., et al. (See Bergh, Jefferson L., assignor.)						
Thackary, George J. (See Fales, Thomas, assignor.)						
Thackeray, Richard, Fall River, Mass. Picker-check for looms	597,192	Jan. 11	1279	299	82	265
Thame, Henry, assignor to F. Swanzy and W. Cleaver, London, England. Manufacture of pulpware	610,567	Sept. 13	794	181	84	1607
Thane, George, Mount Vernon, Mo. Sulky-plow	601,600	Mar. 29	3495	797	82	1968
Tharp, Frank, Elkin, N. C. Stovepipe-joint	605,263	June 7	397	89	83	1427
Tharp, William R. E., Glidden, Iowa. Fire-kindler	604,438	May 24	2235	502	83	1103
Thatcher, John T., Frankfort, Ind. Automatic valve mechanism for tanks	600,972	Mar. 22	2407	550	82	1730
Thau, William, Gnadenfeld, Germany. Tool-holder for boring and shaping machines	603,748	May 10	912	202	83	794
Thayer, Aaron G., Kensington, Kans. Strap or rope clamp and tightener	610,105	Aug. 30	3547	822	84	1406
Thayer, Alfred L., Newark, N. J. Equalizing appliance for bicycles	607,667	July 19	2101	438	84	443
Thayer, Andrew H. (See Morrison, George L., assignor.)						
Thayer, Attila L., and C. B. Roland, Chandler's Valley, Pa. Automatic railway-frog	599,155	Feb. 15	1850	438	82	987
Thayer, Elmer A. (See Pierce and Thayer.)						
Thayer, George L. (See Hunt, Marshall E., assignor.)						
Thayer, Julius W., assignor of two-thirds to H. H. and I. W. Cooper, Milton, Iowa. Cream-separator	608,311	Aug. 2	250	57	84	704
Thayer, Russel A., and E. Everett, Allentown, Pa. Oscillating meter	606,601	June 28	2910	673	83	1965
Theisen, Joseph P., assignor of one-half to J. F. Wilcox, Minneapolis, Minn. Belt-tightener	613,736	Nov. 8	923	211	85	812
Theleen, Charles G., Kenosha, Wis. Bow-guard for vessels	607,298	July 12	1245	265	84	257
Theobald, William H. (See Withrow, John M., assignor.)						
Theobald, William M., McKeesport, Pa. Finishing sheet iron and steel plates	608,432	Aug. 2	477	-----	84	750
Theodore A. Kochs Company. (See Fischer and Rollert, assignors.)						
Theodore A. Kochs Company. (See Rollert, Anton J., assignor.)						
Therien, Nelson, assignor of one-half to C. Kroscher, South Chicago, Ill. Tire for vehicle-wheels	606,848	July 5	402	85	84	80
Thexton, Henry A., St. Thomas, N. D. Envelop moistener and sealer	611,873	Oct. 4	489	118	85	98
Thiele, Gustav, Sand Town, Tex. Compound for treating seeds	608,627	Aug. 9	824	-----	84	836
Thiele, Henry, deceased, Milwaukee, Wis.; J. Thiele, administratrix. Hammock	597,227	Jan. 11	1337	312	82	275
Thiele, Johanna, administratrix. (See Thiele, Henry.)						
Thielens, Alexis B., Peoria, assignor to Emerson Manufacturing Company, Rockford, Ill. Disk harrow	613,092	Oct. 25	2655	627	85	554
Thiell, William H., Chicago, Ill. Portable bath-room and water heater	607,791	July 19	2303	486	84	481
Thierry, Charles V., et al. (See Thierry, Michel C. P., assignor.)						
Thierry, Michel C. P., assignor of three-fourths to C. V. Thierry, G. D. Sturrock, and F. H. L. Mennons, Paris, France. Roller-bearing	609,526	Aug. 23	2532	592 593 594	84	1194
Thies, Carl W., Minneapolis, Minn. Overalls	600,936	Mar. 22	2356	535	82	1720
Thill, William J., Waukon, Iowa. Pneumatic display-last	605,239	June 7	335	77	83	1414
Thoens, Burchard, New Orleans, La. Steam-trap	603,980	May 10	1322	303	83	873
Thoens, Burchard, New Orleans, La. Cane-crusher	615,590	Dec. 6	690	159	85	1547
Thoens, Burchard, New Orleans, La. Housing for cane-mills	615,591	Dec. 6	691	159	85	1548
Thom, David M., Watford, Canada. Combined feed-cutter and blower	608,014	July 26	2769	588	84	592
Thom, John, Glasgow, Scotland. Steam-engine	615,371	Dec. 6	283	65, 66	85	1468
Thom, John, Glasgow, Scotland. Boiler feed-water-heating apparatus	616,431	Dec. 20	2256	526 527	85	1886
Thoma, Julius L., assignor of seventeen-twentieths to A. M. L. Miller, C. P. Brod, L. V. Panhoff, and J. Potzner, Kansas City, Mo. Electric motor	616,035	Dec. 13	1489	348	85	1717
Thomas, A. A., et al. (See Lynch and Hough, assignors.)						
Thomas, Addison C., and C. M. Hamilton, Chicago, Ill., assignors to G. W. Cummings, New York, N. Y. Rotary stenciling-machine	604,506	May 24	2368	537 538	83	1126
Thomas, Almer B., Hardwick, Vt. Paper-bag fastener	612,998	Oct. 25	2498	595	85	524
Thomas, Charles H., assignor of one-third to L. E. Thomas, Cleveland, Ohio. Chainless bicycle	615,763	Dec. 13	1000	233	85	1621
Thomas, Clarence L., et al. (See Hendrickson and Read, assignors.)						
Thomas & Co., Chauncey. (See Lawrence, Joseph L., assignor.)						
Thomas, Eddy T., assignor to H. Binney, trustee, New York, N. Y. Forming integral metallic coatings upon surfaces	610,954	Sept. 20	1454	333	84	1757
Thomas, Edward P., Brooklyn, N. Y. Marker	598,666	Feb. 8	1029	248	82	815
Thomas, Evalena S., Lindenwold, N. J. Tile	611,763	Oct. 4	293	70	85	60
Thomas, Evalena S., Lindenwold, N. J. Tile	613,333	Nov. 1	198	44	85	655
Thomas, Fred J., Cairo, Ill. Jeweler's clamp	598,825	Feb. 8	1279	309	82	862
Thomas, Frederick, Aurora, Ill. Lifting-jack	599,026	Feb. 15	1643	389	82	949
Thomas, George, Philadelphia, Pa. Attachment for spectacles or eyeglasses	606,747	July 5	211	45	84	44
Thomas, George E., Quincy, Mass. Hose-clamp	597,443	Jan. 18	1717	396	82	367
Thomas Glover & Company. (See Stag, William, assignor.)						
Thomas, Harold L., Brooklyn, N. Y., assignor to S. T. Dunham, of New York. Smoke-consumer	604,240	May 17	1858	416	83	1010
Thomas, Harris E., et al. (See Van Wagoner, Charles H., assignor.)						
Thomas, Harry L., and W. C. Nusser, assignors of one-third to E. E. Marvin, Findlay, Ohio. Stop-cock replacer	607,492	July 19	1783	371	84	385
Thomas, James B., St. Louis, Mo. Rotary engine	600,460	Mar. 8	1530	351	82	1530
Thomas, James B., St. Louis, Mo. Combined automatic car and air-brake coupling	603,823	May 10	1051	235	83	822



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Thomas, James B., St. Louis, Mo. Automatic combined car and air-brake coupling .....	603,824	May 10	1053	235	83	822
Thomas, James E. (See Gosnell and Thomas.)						
Thomas, Jesse B., assignor of one-half to A. J. Knight, Boston, Mass. Chemical fire-extinguisher .....	598,826	Feb. 8	1279	310	82	862
Thomas, John F. (See Gros and Thomas.)						
Thomas, John G., Lima, Ohio. Fastener for wire-stays .....	602,783	Apr. 19	2055	466	83	420
Thomas, John J. (See Williams, Thomas, and Richards.)						
Thomas, John L., Osceola, Mo. Cross-clevis .....	599,204	Feb. 15	1923	455	82	1000
Thomas, John S., Cambria, Va. Lamp-reflector .....	597,307	Jan. 11	1456	<sup>341</sup> 342	82	300
Thomas, John W., Jr., Nashville, Tenn. Railway switch and signal mechanism .....	606,602	June 28	2911	674	83	1965
Thomas, John W., Jr., Nashville, Tenn. Railway switch and lock apparatus .....	610,419	Sept. 6	527	115	84	1540
Thomas, John W., Jr., Nashville, Tenn. Mechanism for operating railway-switches .....	610,420	Sept. 6	528	<sup>115</sup> 116	84	1540
Thomas, Joseph, and J. M. Truby, Starke, Fla. Refrigerator-car .....	608,086	July 26	2883	<sup>617</sup> 618	84	615
Thomas, Joseph N., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Magnetic closer .....	599,881	Mar. 1	392	87, 88	82	1287
Thomas, Joseph N., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Electric contact-box .....	600,937	Mar. 22	2357	535	82	1720
Thomas, Joseph N., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Electric system of distribution .....	612,146	Oct. 11	979	237	85	201
Thomas, Joseph N., assignor to Steel Motor Company, Johnstown, Pa. Safety device for suspended conductors .....	613,177	Oct. 25	2781	656	85	580
Thomas, Joseph N., and W. M. Brown, Johnstown, Pa., assignors to Johnson Company, of Ohio. Electric contact-box .....	612,880	Oct. 25	2319	552	85	487
Thomas, Levi H. (See Hyde, Walter H., assignor.)						
Thomas, Levi H., Chicago, Ill. Stopper and pour-out for bottles .....	599,460	Feb. 22	2433	572	82	1121
Thomas, Levi H., Chicago, Ill. Attachment for mucilage-bottles .....	599,461	Feb. 22	2434	572	82	1121
Thomas, Lincoln N., Madisonville, Ohio. Penholder .....	599,749	Mar. 1	128	29	82	1240
Thomas, Lois E. (See Thomas, Charles H., assignor.)						
Thomas, Lorenzo R., et al. (See Elliott, Thomas, assignor.)						
Thomas Manufacturing Company. (See Fay, Rimmon C., assignor.)						
Thomas Manufacturing Company. (See Fordyce, John R., assignor.)						
Thomas, Martin E., Cassaday, assignor of three-fourths to W. F. Toops and H. L. Hendrick, Bowling Green, Ky. Electric locomotive .....	615,592	Dec. 6	693	<sup>159</sup> 160	85	1548
Thomas, Mary A. L., Springfield, Tenn. Thread holder and cutter for spools .....	603,389	May 3	246	55	83	648
Thomas, Olivia. (See Smith, John L., assignor.)						
Thomas, Percival E. (See Thomas, William J. and P. E.)						
Thomas Phillips Company. (See Dana, Frederick I., assignor.)						
Thomas, Richard, and E. Prevost, Crefeld, Germany. Mercerizing under tension .....	600,826	Mar. 15	2165	-----	82	1670
Thomas, Richard, and E. Prevost, Crefeld, Germany. Mercerizing under tension .....	600,827	Mar. 15	2167	494	82	1671
Thomas Roberts Stevenson Company. (See Roberts, Clarence V., assignor.)						
Thomas, Samuel D., et al. (See Martz, Randolph N., assignor.)						
Thomas, Theodore G., Lamarque, Tex. Sash-fastener .....	601,310	Mar. 29	3030	682	82	1876
Thomas, Willard J., Westfield, N. Y. Clutch .....	607,531	July 19	1846	384	84	397
Thomas, William D., Allegheny, Pa. Rotary engine .....	601,914	Apr. 5	560	<sup>115</sup> 116	83	106
Thomas, William H. (See Campbell, Milton T., assignor.)						
Thomas, William H., Indianapolis, Ind. Bicycle-seat .....	606,314	June 28	2385	552	83	1863
Thomas, William J. and P. E., Inglewood, Cal. Potato-planter .....	612,683	Oct. 18	1938	<sup>458</sup> 459	85	395
Thomassen, Hermanus, and J. Krop, Amsterdam, Netherlands. Cornish boiler .....	605,149	June 7	169	42	83	1383
Thomasson, Henry A., assignor of one-half to W. A. Snyder, Mount Hope, W. Va. Nut-lock .....	603,347	May 3	181	41	83	637
Thomforde, Ernest A., Englewood, N. J. Gripping device .....	605,454	June 7	743	169	83	1496
Thomlinson, Arthur, Little Rock, Ark. Crane .....	615,924	Dec. 13	1276	298	85	1673
Thompson, Burchard D., Cyclone, Pa. Oil-well fishing-tool .....	615,589	Dec. 6	689	158	85	1547
Thompson, Carl G., and C. D. Rush, assignors to A. C. Weyburn, Marion, Ind. Coupling-iron for shafts or thills .....	615,645	Dec. 6	791	183	85	1569
Thompson, Charles A. (See Wine and Thompson.)						
Thompson, Charles A., assignor to M. J. Wine, Washington, D. C. Stamp-money and letter packet .....	603,118	Apr. 26	2649	602	83	548
Thompson, Charles H. (See Angel, Henry R., assignor.)						
Thompson, Christopher C., Grayson, Ky. Saw-oiler .....	598,965	Feb. 15	1534	365	82	927
Thompson, Christopher C., Grayson, Ky. Boot or shoe stretcher .....	599,951	Mar. 1	514	116	82	1310
Thompson, Courtenay W., London, England. Valve mechanism for engines .....	605,030	May 31	3265	<sup>750</sup> 751	83	1317
Thompson, David M., Providence, R. I. Steam-generator .....	601,485	Mar. 29	3313	749	82	1930
Thompson, David M., Providence, R. I. Steam-generator .....	601,486	Mar. 29	3315	750	82	1931
Thompson, David M., Providence, R. I. Steam-generator .....	601,487	Mar. 29	3319	<sup>750</sup> 751	82	1931
Thompson, David M., Providence, R. I. Steam-generator and furnace .....	601,488	Mar. 29	3322	751	82	1932
Thompson, Edward D., Lawrence, Kans. Bicycle .....	598,186	Feb. 1	201	46	82	640
Thompson, Edward D., Lawrence, Kans. Bicycle .....	598,234	Feb. 1	238	65	82	656
Thompson, Edward L., Washington, D. C. Axle for artillery or gun carriages .....	612,147	Oct. 11	982	238	85	202
Thompson, Elias H., Newark, Cal. Wind-wheel .....	603,119	Apr. 26	2650	602	83	548
Thompson, Elton H., Drake's Mills, Pa. Needle .....	609,712	Aug. 23	2879	673	84	1260
Thompson, Elwin L., assignor to Allen-Thompson-Whitney Company, Baldwinville, Mass. Convertible chair .....	612,792	Oct. 18	2139	508	85	434
Thompson, Frank, assignor to Common Sense Bolster Company, Chicago, Ill. Combined ventilating and refrigerator car .....	608,237	Aug. 2	119	29	84	677
Thompson, Frank E., assignor to Pratt & Whitney Company, Hartford, Conn. Weighing-machine .....	616,851	Dec. 27	3041	<sup>707</sup> 708	85	2060
Thompson, Fred A., Eureka, Wis. Calipers .....	600,049	Mar. 1	765	174	82	1363
Thompson, Fred C., Burton, Wash. Mechanism for converting motion .....	612,442	Oct. 18	1502	362	85	313
Thompson, Frederick. (See Rogers and Thompson.)						
Thompson, Freeman, Dover, N. H. Portable sawmill .....	616,163	Dec. 20	1762	408	85	1787
Thompson, George C., Salinas, Cal. Roof-framing tool .....	614,144	Nov. 15	1613	369	85	968
Thompson, George C., San Antonio, Tex. Car-coupling .....	615,925	Dec. 13	1279	298	85	1673
Thompson, George F., Omaha, Nebr. Removable head or cover for barrels, &c .....	603,348	May 3	182	41	83	637
Thompson, George W. (See Hasbrouck, Robert M., assignor.)						
Thompson, George W., et al. (See Dillahay, John G., assignor.)						
Thompson, Henry G., assignor of one-half to J. Dottinger, Hollister, Cal. Combination paint-bucket .....	606,100	June 21	1972	453	83	1763
Thompson, Horace, Concord, N. H. Broom .....	610,290	Sept. 6	292	63	84	1498



## Alphabetical list of patentees—Continued.

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Thompson, James, <i>et al.</i> (See Russell, William, assignor.)						
Thompson, James S. (See Forsyth and Thompson.)						
Thompson, James S. (See Heilman, Charles S., assignor.)						
Thompson, Jefferson D., Washington, D. C. Waste-chute for apartment-houses	596,686	Jan. 4	403	91	82	80
Thompson, John. (See Marsh, William Z., assignor.)						
Thompson, John T., Baltimore, Md. Sash-fastener	606,101	June 21	1973	453	83	1763
Thompson, Joseph D. and W., assignors to W. W. Greener, Birmingham, England. Single-trigger double-barrel gun	610,569	Sept. 13	796	181	84	1608
Thompson, Joseph F., assignor of one-half to S. Aslet, Marietta, Ohio. Sash-cord guide	612,684	Oct. 18	1941	459	85	396
Thompson, Joseph T., Hatton, N. D. Steam flue-cleaner	604,551	May 24	2452	557	83	1140
Thompson, Joseph W., Salem, Ohio. Riveting-machine	609,479	Aug. 23	2463	574	84	1181
Thompson, Lewis C., Indianapolis, Ind. Combination-lock	602,114	Apr. 12	908	197 198	83	184
Thompson, Oron B., Bay Mills, Mich., assignor to H. Shuart, Buffalo, N. Y. Cash-regis- ter	598,584	Feb. 8	882	211 212	82	788
Thompson, Martin, Latrobe, Tasmania. Collapsible handle for saucepans, pots, &c	613,611	Nov. 1	700	162	85	750
Thompson, Matt R., Olympia, Wash. Sleeping-harness for infants	613,334	Nov. 1	199	44	85	655
Thompson, Ralph F., Alexandria, La., assignor of one-half to E. J. Sullivan. Electric railway conduit system	597,036	Jan. 11	1007	237	82	212
Thompson, Reinert, Colesburg, Iowa. Oil-can and support	599,027	Feb. 15	1644	389	82	949
Thompson, Richard, assignor of one-half to J. F. Wolgast, Buffalo, N. Y. Bicycle driv- ing mechanism	607,968	July 26	2666	569	84	569
Thompson, Richard, assignor of one-half to J. Young, London, Canada. Steam or water cock	616,036	Dec. 13	1491	349	85	1717
Thompson, Robert (See Thompson, William H. and R.)						
Thompson, Robert J., Grandin, Mo. Handle for pruning-shears	608,490	Aug. 2	569	127	84	768
Thompson, Robert J., Grandin, Mo. Handle for pruning-shears	608,491	Aug. 2	570	127	84	768
Thompson, Robert P. (See Thompson, William P. and R. P.)						
Thompson, Robert R., Bloomington, Ill. Box-lounge	602,487	Apr. 19	1549	352 353	83	324
Thompson, Robert R., Bloomington, Ill. Mattress-stuffing machine	611,294	Sept. 27	2108	485 486	84	1901
Thompson, Samuel A., Rocky Comfort, Ark. Flooring and ceiling set combined	610,568	Sept. 13	795	181	84	1607
Thompson, Samuel R., Liverpool, England. Composition for pipe-joints or the like	615,000	Nov. 29	3214		85	1301
Thompson & Son, Henry G. (See Luke, Charles, assignor.)						
Thompson & Son, Henry G. (See Mower, Samuel E., assignor.)						
Thompson, Walter. (See Thompson, Joseph D. and W.)						
Thompson, Walter M., and C. Nuhring, Cincinnati, Ohio. Apparatus for extinguishing fire and distributing disinfectants	604,439	May 24	2237	502	83	1103
Thompson, Walter N., St. Louis, Mo. Indicator for bottles, &c	599,156	Feb. 15	1851	439	82	987
Thompson, William, assignor to Buck's Stove and Range Company, St. Louis, Mo. Stove	615,415	Dec. 6	378	89	85	1486
Thompson, William H., East Stroudsburg, Pa. Cigar-cutter and match-igniter	598,718	Feb. 8	1122	270 271	82	832
Thompson, William H., assignor of three-fourths to H. E. Carlton, O. H. Dishong, and W. A. Hendry, Arcadia, Fla. Alarm-lock	597,207	Jan. 11	1306	305	82	269
Thompson, William H. and R., London, England. Lubricator	604,132	May 17	1662	373 374	83	972
Thompson, William J., Haw River, N. C. Picker-staff clamp	596,922	Jan. 4	809	192	82	158
Thompson, William J., Haw River, N. C. Steam-cooker	608,806	Aug. 9	1147	266	84	898
Thompson, William P. (See Van Gelder, Pieter, assignor.)						
Thompson, William P. and R. P., Philadelphia, Pa. Radiator for heating air	608,352	Aug. 2	335	73, 74	84	722
Thompson, William P. and R. P., Philadelphia, Pa. Fluid-pressure-regulating valve	613,737	Nov. 8	925	211 212	85	813
Thompson, William S., Jr., Woodside, Md. Tooth-powder receptacle	610,775	Sept. 13	1144	263	84	1680
Thomson, Thomas S. (See Nielsen and Thomson.)						
Thomson, Bessie W. (See Weston, Henry B., assignor.)						
Thomson, Daniel K. (See Adkins, James E., assignor.)						
Thomson, David D. (See Davis, Granville, assignor.)						
Thomson, David D. (See Davis, Granville and J. M., assignors.)						
Thomson, David P. (See Anderson and Thomson.)						
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electric-arc lamp	602,922	Apr. 26	2313	527	83	284
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electrostatic measuring instrument	610,928	Sept. 20	1405	321 322	84	1748
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Con- necticut. Distribution of electric currents	602,963	Apr. 26	2387	544	83	498
Thomson, Eliza, London, England. Shoulder-brace	597,127	Jan. 11	1181	277	82	246
Thomson, George H., Rochdale, and W. Thomson, Shaw, England. Ring-spinning and doubling frame	610,106	Aug. 30	3548	822	84	1407
Thomson, Herbert G., New York, N. Y. Anchor for fence-posts	616,038	Dec. 13	1493	349	85	1717
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson-Houston Electric Company. (See Van Depoele, Charles J., assignor.)						
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Jersey City, N. J. Mechanism for controlling actions of oscillating disks	602,376	Apr. 12	1358	304	83	274
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Newark, N. J. Apparatus for preventing damage to water-meters	602,377	Apr. 12	1360	304	83	274
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Jersey City, N. J. Water-meter	602,378	Apr. 12	1361	304	83	274
Thomson, John, and G. Gibb, Portobello, Scotland. Non-puncturable cycle-tire	600,340	Mar. 8	1321	302	82	1491
Thomson, Thomas, Scranton, Pa. Smoke-generator	606,315	June 28	2386	553	83	1863
Thomson, Thomas, Scranton, Pa. Pressure-gage	611,657	Oct. 4	113	28	85	25
Thomson, William. (See Meldrum and Thomson.)						
Thomson, William. (See Thomson, George H. and W.)						
Thomson, William, Manchester, England. Tile	610,776	Sept. 13	1146	263	84	1680
Thomson, William B., assignor to Gem Fibre Package Company, Detroit, Mich. Box or package	600,562	Mar. 15	1731	395	82	1588
Thomson, William B., assignor to Gem Fibre Package Company, Detroit, Mich. Sealed package	616,037	Dec. 13	1492	349	85	1717
Thorburn, Edwin B., Hightstown, N. J. Governor for steam-engines	612,443	Oct. 18	1503	362	85	313
Thorens, Hermann, St. Croix, Switzerland. Mechanical musical toy	610,291	Sept. 6	292	63	84	1498
Thorn, Ernst B., Stockholm, Sweden. Transposing action for organs	606,748	July 5	212	45, 46	84	44
Thorn, Frederick S., and C. Hoddle, London, England. Apparatus for generating acety- lene gas	604,199	May 17	1787	403	83	998
Thorn, Henry A. A., London, England. Single-trigger mechanism for guns	602,610	Apr. 19	1756	401	83	362
Thorn, John W., Mechanicsburg, Va. Safety-stirrup	606,368	June 28	2487	578	83	1882



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Thorn, Thomas F. (See Dennis and Thorn.)						
Thornburgh Coupler Attachments Company. (See Thornburgh, William, assignor.)						
Thornburgh, William, Shelby, Ohio, assignor to Thornburgh Coupler Attachments Company, Limited, Detroit, Mich. Coupling attachment for railway-cars	606,102	June 21	1974	453 454	83	1763
Thornburgh, William, Shelby, Ohio, assignor to Thornburgh Coupler Attachments Company, Limited, Detroit, Mich. Spring-protecting device for railway coupling attachments	606,316	June 28	2388	553	83	1864
Thorne, Levi E., New York, N. Y. Sound-locating instrument	605,031	May 31	3269	751	83	1318
Thorne, Richard H., El Paso, Tex. Burial apparatus	605,360	June 7	586	130 131	83	1463
Thorne Typesetting Machine Company. (See Linke, Emil F., assignor.)						
Thorne Typesetting Machine Company. (See Linke and Willey, assignors.)						
Thornton, Charles P., and W. H. Moody, Magnolia, assignors to said Thornton, J. R. Le Bosquet, and L. Roth, Pine Bluff, Ark. Wagon-step	599,666	Feb. 22	2825	657	82	1198
Thornton, Henry H. (See Le Baron, Leonard, assignor.)						
Thornton, Henry H. (See Smith, Belon B., assignor.)						
Thornton, James A., Baltimore, Md., assignor to E. E. Gold, New York, N. Y. Heat-storage steam-radiator	610,292	Sept. 6	294	63	84	1498
Thornton, Wilber R., Berthoud, Colo. Head-gate	616,212	Dec. 20	1843	426	85	1803
Thornton, William A. (See Scarth and Thornton.)						
Thornycroft, John E. (See Thornycroft, John I. and J. E.)						
Thornycroft, John I., London, England. Steam-generator	603,800	May 10	1004	224 225	83	812
Thornycroft, John I. and J. E., London, England. Steam-trap	615,764	Dec. 13	1001	233	85	1621
Thorp, George W., and A. Leddy, Conway Springs, Kans. Wire-stretcher	611,658	Oct. 4	114	28	85	25
Thorp, Henry. (See Reid and Thorp.)						
Thorp, Thomas J., Forest Grove, Oreg., assignor of one-eighth to B. L. Hurd, Chicago, Ill. School-desk	598,685	Feb. 8	1068	257 258	82	822
Thorp, William N., and F. G. Normart, Fresno, Cal. Coupling for broom-handles	612,685	Oct. 18	1942	459	85	396
Thorsen, William R., <i>et al.</i> (See Davis, Orin C., assignor.)						
Thorson, Thomas, Brownstown, Wis. Spark-arrester	614,586	Nov. 22	2427	554	85	1133
Thowless, Orlando M., Newark, N. J. Illuminant for incandescent electric lamps and making	616,276	Dec. 20	1976	460	85	1830
Thrall, George. (See Taylor, Harrison H., assignor.)						
Thum, Friedrich A., Newark, N. J. Electrolytic apparatus	614,633	Nov. 22	2522	575	85	1149
Thum, Hugo. (See Thum, William and H.)						
Thum, Hugo, Grand Rapids, Mich. Fly-catching device	601,183	Mar. 22	2763	634	82	1797
Thum, Hugo, Grand Rapids, Mich. Sticky fly-paper	603,981	May 10	1324	303 304	83	874
Thum, Otto, Grand Rapids, Mich. Sticky fly-paper	610,109	Aug. 30	3551	823	84	1407
Thum, William, Grand Rapids, Mich. Sticky fly-paper	601,184	Mar. 22	2765	634	82	1797
Thum, William, Grand Rapids, Mich. Package of sticky fly-paper	610,107	Aug. 30	3549	823	84	1407
Thum, William, Grand Rapids, Mich. Sticky fly-paper	610,108	Aug. 30	3550	823	84	1407
Thum, William and H., Grand Rapids, Mich. Sticky fly-paper	612,686	Oct. 18	1943	460	85	396
Thun, Karl, Barmen, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Green alizarin dye	608,238	Aug. 2	120	-----	84	678
Thunborg, Jacob, Cœur d'Alene, Idaho. Runner for vehicles	608,433	Aug. 2	478	107	84	750
Thunderbolt, Edward, Carlton, Victoria. Clutch-gear	602,568	Apr. 19	1685	383	83	349
Thunderbolt, Edward, Carlton, Victoria. Governor for engines	610,250	Sept. 6	195	44	84	1480
Thumma, Emanuel B., <i>et al.</i> (See White, Warren E., assignor.)						
Thurber, Charles F., assignor of three-fourths to O. F. Carley, F. L. Gleason, W. M., Jr., and L. J. Abrams, Olean, N. Y. Punch and shear machine	608,562	Aug. 2	694	158	84	794
Thurber, Charles H. (See Harrison and Thurber.)						
Thurell, John, assignor of one-half to J. B. Keany, North Adams, Mass. Furnace-grate	601,601	Mar. 29	3496	797	82	1968
Thursson, Andrew, Boston, Mass. Switch operating and locking mechanism	607,299	July 12	1246	266	84	257
Thurlow, Edward, Albert Park, and P. N. Hignett, assignors to G. J. Betts and F. T. Bower, St. Kilda, Victoria. Composition for closing punctures in pneumatic tires	609,636	Aug. 23	2759	-----	84	1237
Thurman, John L. (See Moore and Thurman.)						
Thurman, John S., St. Louis, Mo. Locomotive-headlight	615,372	Dec. 6	285	66	85	1468
Thurmend, John R., Denver, Colo. Nut-lock	601,915	Apr. 5	562	116	83	107
Thurner, Michael. (See Weber and Thurner.)						
Thurston, Charles H., Worcester, Mass. Bicycle-support	616,749	Dec. 27	2868	665	85	2024
Thurston, George S., Santa Rosa, Cal. Bicycle-support	609,174	Aug. 16	1882	447	84	1047
Thurston, Spencer D., Camden, N. J. Steam-boiler	600,461	Mar. 8	1531	351 352	82	1530
Tibbetts, Urvile D., <i>et al.</i> (See Hitchcock, Charles F., assignor.)						
Tibbitts, Frank R. (See Allen and Tibbitts.)						
Tice, Levi. (See Tice, Wilson M. and L.)						
Tice, Wilson M. and L., Bethlehem, Pa. Filter for rainwater	602,488	Apr. 19	1550	353	83	325
Tickner, George L. (See Tickner, John H. and G. L.)						
Tickner, John H. and G. L., Syracuse, N. Y.; said John H. Tickner assignor to said G. L. Tickner. Game	611,086	Sept. 20	1697	390	84	1803
Tidemann, Henry G. (See Meier and Tidemann.)						
Tidler, S. C. (See Tidler, Washington E., assignor.)						
Tidler, Washington E., assignor of one-half to S. C. Tidler, Cicero, Ind. Animal-catcher	611,744	Oct. 4	269	64	85	55
Tidmarsh, Harry E., Sandy Hill, N. Y. Screen for paper-pulp	613,948	Nov. 8	1276	289	85	880
Tiefel, Leonard C., assignor to G. Mattison, Rochester N. Y. Ladder	607,808	July 19	2356	498	84	492
Tiefel, Leonard C., assignor of one-half to G. Mattison, Rochester, N. Y. Combined extension and step ladder	608,929	Aug. 9	1403	331	84	945
Tiesing, Edward J. (See Warren and Tiesing.)						
Tiffany, Albert R., assignor of one-half to F. H. Bissell, Dayton, Ohio. Knockdown basket	613,335	Nov. 1	200	44, 45	85	655
Tigges, Hermann. (See Jacobson and Tigges.)						
Tilby, James T., and J. H. Blackmore, London, England. Gear-case for velocipedes	611,824	Oct. 4	408	98	85	81
Tilden, Douglas, Oakland, Cal. Fruit or flower stem cutter and holding attachment	608,807	Aug. 9	1148	266	84	899
Tilden, James A., Hyde Park, assignor to Hersey Manufacturing Company, Boston, Mass. Pneumatic malting-drum	602,528	Apr. 19	1619	370	83	337
Tilden, Marshall, Willimantic, Conn. Spool	611,343	Sept. 27	2193	507	84	1917
Tilghman, Merrill H., Norfolk, Va. Barrel	611,532	Sept. 27	2550	588	84	1983
Tillar, T. Frank. (See Sumner, John A., assignor.)						
Tilley, John B. (See Tilley, Joseph B., J. B., and L. F.)						
Tilley, Joseph B., J. B., and L. F., Keighley, Kans. Kafir-corn header	601,764	Apr. 5	275	54	83	53
Tilley, Licaneory F. (See Tilley, Joseph B., J. B., and L. F.)						
Tillinghast, Frederick. (See Van Guysling, Walter F., assignor.)						
Tillinghast, Henry A., Providence, R. I. Guiding device	609,059	Aug. 16	1664	396	84	1010
Tillinghast, William R., Providence, R. I. Cloth-clip	600,184	Mar. 8	1066	241	82	1442



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Tillison, Hosea R., and C. W. H. Blood, assignors to S. A. Woods Machine Company, Boston, Mass. Planing machinery	596,555	Jan. 4	163	37, 38	82	33
Tillman, William M., Salt Lake City, Utah. Blowpipe	605,935	June 21	1647	378	83	1703
Tilson, William H., Quincy, Ill. Overshoe-holder	607,493	July 19	1784	371	84	386
Tilsner, Wilhelm, assignor to H. J. Frank, Philadelphia, Pa. Vehicle-wheel	612,368	Oct. 11	1375	333	85	276
Tilton, Stephen S., San Francisco, Cal. Automatic gate for flushing sewers	614,675	Nov. 22	2598	590	85	1163
Tim & Co. (See Tim, Louis, assignor.)						
Tim, Louis, assignor to Tim & Co., New York, N. Y. Shirt	601,489	Mar. 29	3323	752	82	1932
Timberlake, John B., Jackson, Mich. Lamp-bracket	608,138	July 26	2962	635 636	84	630
Timberlake, John B., Jackson, Mich. Lamp-bracket	608,139	July 26	2965	636	84	630
Timberlake, Orville A., Norwood, Ohio. Vehicle-spring	602,591	Apr. 19	1723	392	83	356
Timewell, Arthur T., assignor to A. Dickinson, Chicago, Ill. Sack filling and sewing machine	597,075	Jan. 11	1086	256 257 258 259	82	227
Timewell, Arthur T., assignor to A. Dickinson, Chicago, Ill. Machine for transferring and sewing filled sacks	607,809	July 19	2357	498 499 500	84	492
Timewell, Arthur T., assignor to A. Dickinson, Chicago, Ill. Filled-sack-sewing machine	607,810	July 19	2362	500 501	84	494
Timewell, Arthur T., assignor to A. Dickinson, Chicago, Ill. Machine for sewing filled sacks	607,811	July 19	2365	501	84	495
Timken, Henry, and R. Heinzelman, assignors of one-half to W. R. and H. H. Timken, St. Louis, Mo. Roller-bearing for vehicles	606,635	June 28	2968	689	83	1976
Timken, Henry, and R. Heinzelman, assignors of one-half to W. R. and H. H. Timken, St. Louis, Mo. Roller-bearing	606,636	June 28	2970	690	83	1976
Timken, Henry H., <i>et al.</i> (See Timken and Heinzelman, assignors.)						
Timken, William R., <i>et al.</i> (See Timken and Heinzelman, assignors.)						
Timmis, William, assignor of one-half to F. W. Bailey and C. B. Pier, Pittsburg, Pa. Combined track and wheel brake	598,966	Feb. 15	1536	365	82	927
Timms, James, assignor to Buckeye Malleable Iron and Coupler Company, Columbus, Ohio. Car-coupling	606,603	June 28	2914	674 675	83	1965
Timms, James, assignor to Buckeye Malleable Iron and Coupler Company, Columbus, Ohio. Car-coupling	612,285	Oct. 11	1241	297 298	85	250
Timpe, Adolf. (See Deacon and Timpe.)						
Tindal, Henry. (See Van der Sleen and Schneller, assignors.)						
Tingley, Melvin. (See Tingley, Nelson, assignor.)						
Tingley, Nelson, Scranton, assignor to M. Tingley, Kingsley, Pa. Mail-bag catching, receiving, and delivering apparatus	610,872	Sept. 13	1315	302	84	1715
Tinker, George M., assignor to American Waltham Manufacturing Company, Waltham, Mass. Ball-bearing	597,444	Jan. 18	1718	396	82	367
Tinkham, Francis M., Springfield, Mass. Bedstead	604,947	May 31	3128	719	83	1291
Tinkham, Howard A., Norton, assignor to White Warner Company, Taunton, Mass. Hot-air furnace	604,552	May 24	2453	557 558	83	1141
Tinkham, Howard A., Norton, assignor to White Warner Company, Taunton, Mass. Grate-bar hanger and connections	607,969	July 26	2667	569 570	84	569
Tinklepaugh, Ziba H. (See Conwell, Tinklepaugh, and Sherdan.)						
Tinsley, Grace M., Cleveland, Ohio. Hat holder or packer for trunks	615,593	Dec. 6	695	160	85	1549
Tinsley, Joseph B., Anthony, Kans. Windmill	607,668	July 19	2102	438 439	84	443
Tipton, Andrew J., <i>et al.</i> (See Gray, Isaac C., assignor.)						
Tipton, Commodore P. and D. B., Commerce, Tex. Feed-valve for compensating for leakage in train-pipes	601,602	Mar. 29	3497	797	82	1968
Tipton, David B. (See Tipton, Commodore P. and D. B.)						
Tipton, George W., Howard, Pa. Post-driver	607,577	July 19	1932	401	84	412
Tirot, Adolphe F., Bruyères de Sèvres, and A. Guyot, Sevres, France. Time-fuse	616,039	Dec. 13	1494	349 350	85	1718
Tirrell, Jacob P. (See Kendall and Tirrell.)						
Tirrell, Jacob P., Boston, Mass., assignor to American Automatic Banjo Company, of New Jersey. Sectional pneumatic action for musical instruments	612,597	Oct. 18	1770	418	85	363
Tirrill, Allen A., Whitefield, and P. S. Tirrill, Groveton, N. H. Automatic potential-regulator for dynamos	596,923	Jan. 4	811	192	82	158
Tirrill, Phill S. (See Tirrill, Allen A. and P. S.)						
Tisch, Emil. (See Tisch, Julius and E.)						
Tisch, Julius and E., Grand Rapids, Mich. Tobacco-press	608,532	Aug. 2	639	144	84	781
Titus, Ivor R., and J. W. Ensign, assignors to Ensign Manufacturing Company, Huntington, W. Va. Self-oiling wheel	602,379	Apr. 12	1363	305	83	274
Titus, James M., assignor of one-half to A. B. Wood, Petersburg, Va. Manufacturing excelsior	615,416	Dec. 6	379	90	85	1486
Titus, John. (See Hicks and Titus.)						
Titus, John C., assignor to Farmers Manufacturing Company, Norfolk, Va. Box-former	597,624	Jan. 18	2008	468	82	426
Titus, John F., Boone county, Ind. Nut-lock	603,670	May 10	787	173	83	770
Titus, Silas W., Brooklyn, assignor to Pneumatic Engineering Company, New York, N. Y. Tube well	602,547	Apr. 19	1652	376	83	343
Titus, Silas W., New York, N. Y., assignor to Pneumatic Engineering Company, of West Virginia. Apparatus for using compressed air to elevate water. (Reissue)	11,675	June 28	2978	691	83	1978
Tjossem, John, Paullina, Iowa. Corn harvester and husker	608,492	Aug. 2	570	127 128	84	769
Toback, Leopold, Brooklyn, N. Y., assignor to Water Overflow Preventive Company, of New York. Lock	598,211	Feb. 1	252	56	82	650
Tobacco Warehousing and Trading Company. (See Palethorpe, James A., assignor.)						
Tobey, Fred W., Grand Rapids, Mich. Mirror pivot and adjuster	597,308	Jan. 11	1457	342	82	300
Tobey, Fred W., Grand Rapids, Mich. Combined desk-lid hinge and support	597,309	Jan. 11	1458	342	82	300
Tobey, Fred W., Grand Rapids, Mich. Lock	604,672	May 24	2656	609	83	1182
Tobias, Georg, Berlin, Germany. Making pyrotechnin	607,494	July 19	1785		84	386
Todd, Albert M. (See Abbey, Orra E., assignor.)						
Todd, Albert V., Oelwein, Iowa. Burglar-alarm	605,589	June 14	965	224	83	1558
Todd, Alfred M., Bordeaux, France. Toy	604,180	May 17	1757	396	83	992
Todd, Baxter, <i>et al.</i> (See Van Fleet, Charles G., assignor.)						
Todd, Jared A., and H. G. Smith, Titusville, Pa. Fluid-distilling apparatus	616,277	Dec. 20	1978	460	85	1831
Todd, Marquis J., assignor to Pitts Agricultural Works, Buffalo, N. Y. Horse hay-rake	613,738	Nov. 8	926	212 213	85	813
Todd, Richard, Heaton Chapel, and J. A. Stott, Manchester, England. Apparatus for spinning textile fibers	603,068	Apr. 26	2558	581	83	530



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Todd, Richard, Heaton Chapel, and J. A. Stott, Manchester, England. Spinning apparatus	614,145	Nov. 15	1615	370	85	968
Todd, S. E., Jr. (See Hoard, Milo C., assignor.)						
Todd, Vernon C., assignor of one-half to E. H. Ehrler, St. Louis, Mo. Micrometer-gage	607,898	July 26	2545	540	84	546
Toepfer, Antoinette, administratrix. (See Toepfer, William G.)						
Toepfer, Frank, Milwaukee, Wis. Truck	613,336	Nov. 1	201	45	85	655
Toepfer, William G., deceased, (A. Toepfer, administratrix,) assignor to himself and E. M. Sanger, New York, N. Y. Bicycle-bell	605,936	June 21	1648	378	83	1704
Toffelmier, Lance J., and A. Heiron, San Leandro, Cal. Advertising device	614,037	Nov. 8	1417	324	85	909
Tofft, Peter A., New York, N. Y. Knockdown house	604,277	May 17	1927	431	83	1024
Toland, Charles M., Wilmington, Del. Support-bracket for lamps, gas-burners, or the like	604,133	May 17	1666	374	83	972
Toledo Glass Company. (See Owens, Michael J., assignor.) (Reissue.)						
Toles, Wilford C., Chicago, Ill. Bench-vise	613,535	Nov. 1	575	130	85	725
Tollner, Charles, Jr. (See Dillenbeck, Jacob J., assignor.)						
Tolly, Charles. (See Moll, Tolly, and Sims.)						
Tolman, James P., Newton, and H. D. Martin, Shirley, assignors to Samson Cordage Works, Boston, Mass. Spinning-frame	608,731	Aug. 9	1007	230 231	84	872
Tolman, Scott H., Boston, Mass. Trousers-stretcher	596,764	Jan. 4	550	126	82	106
Tolsma, Alexander S. (See Mather, Frank T., assignor.)						
Tombs, Charles C., assignor to T. J. Fearl and R. Ferguson, Johnstown, Pa. Folding chair	606,103	June 21	1976	454	83	1764
Tomkins, Silas P., Tilly Foster, N. Y. Tide-motor	609,637	Aug. 23	2759	643	84	1237
Tomlins, Herbert, assignor to Electric Fog-Signal Syndicate, Limited, London, England. Fog signaling apparatus for railways	605,361	June 7	592	131 132	83	1464
Tomlinson, Charlie E., Talleyrand, Iowa. Trough-valve	616,164	Dec. 20	1785	409	85	1788
Tomlinson, Elizabeth, et al. (See Tomlinson, James, assignor.)						
Tomlinson, James, assignor to E. Tomlinson and W. C. Duffus, Detroit, Mich. Storing-package for liquids	603,240	Apr. 26	2852	650	83	586
Tomlinson, William F. (See Wilmot, William F., assignor.)						
Tommarchi, Paolo, Ameglia, Italy. Apparatus for setting saw-teeth	600,325	Mar. 8	1296	296	82	1486
Tompkins Brothers. (See Smith, Henry V. H., assignor.)						
Tompkins, Caroline, New York, N. Y. Wire rack	614,778	Nov. 22	2773	633	85	1199
Tong, George F., assignor of one-half to M. K. Barrett, Sacramento, Cal. Adjustable portable pipe-vise bench	600,100	Mar. 1	868	200	82	1384
Tonge, James. (See Gass and Tonge.)						
Tonkin, John J., Oswego, N. Y., assignor to J. Eaton, Pittsburg, Pa. Steam-boiler	601,216	Mar. 22	2822	645	82	1808
Tonner, William E. (See Lindsay and Tonner.)						
Toof, Edwin J., New Haven, Conn. Regulator-valve	597,445	Jan. 18	1719	397	82	367
Toohy, Cornelius, San Francisco, Cal. Convertible shipping-package and grocer's caddy	615,324	Dec. 6	172	45	85	1446
Tooker, George W., New York, N. Y. Gilding china, earthenware, or porcelain articles	603,296	May 3	87	-----	83	618
Toomer, William M. (See Baskin, William H., assignor.)						
Toone, Benjamin, et al. (See Adcock, Arthur, assignor.)						
Toops, W. F., et al. (See Thomas, Martin E., assignor.)						
Topham, Charles F. (See Stearn and Topham.)						
Topp, John. (See Heagle and Topp.)						
Toquet, Benjamin H., Westport, Conn. Pencil	605,657	June 14	1102	254	83	1582
Toquet, Benjamin L. (See Bassett, Norman C., assignor.)						
Toquet, Benjamin L., Westport, Conn. Cover for power-transmitting chains	614,038	Nov. 8	1418	325	85	909
Toren, Jacob, Grand Rapids, Mich. Bicycle-tire	606,604	June 28	2915	675	83	1966
Torkelson, Reinhard T., Worcester, Mass. Breech-loading firearm	601,820	Apr. 5	374	79	83	70
Tormay, Patrick J., Trotter, Pa. Oiler	613,337	Nov. 1	203	45	85	656
Torney, John H., assignor of one-half to R. W. Cornwell, Washington, D. C. Signal device for lamps	609,849	Aug. 30	3105	724	84	1319
Toronto Steel Clad Bath and Metal Company. (See Booth, George, assignor.)						
Torrance, William A., et al. (See Choquette, Joseph, assignor.)						
Torrey, Augustus. (See Susemihl and Torrey.)						
Torrey, Bates, Weymouth, Mass. Keyboard for type-writers	606,903	July 5	482	104	84	95
Torrey, Edward S., et al. (See McAlpine, John, assignor.)						
Torrey Roller Bushing Works. (See Lester, Allen H., assignor.)						
Totham, James, New Haven, Conn. Filter	598,719	Feb. 8	1124	271	82	832
Totten, George. (See Haywood and Totten.)						
Totzauer, Peregrin. (See Mugrauer and Totzauer.)						
Touchet, Louis P., Watertown, N. Y. Expandible horseshoe	607,199	July 12	1053	228	84	220
Tourtet, John, London, England. Gas-meter	597,484	Jan. 18	1789	414	82	381
Tourville, Charles B., assignor of one-half to M. Tully, St. Louis, Mo. Heating-drum	608,386	Aug. 2	389	86	84	732
Toussaint, Winand W. J., Brookline, Mass. Boiler	598,686	Feb. 8	1070	258	82	822
Toward, Charles P., Worcester, Mass., assignor of one-half to E. D. Merrill and F. D. Folsom. Combination cutter, connector, and pliers	603,349	May 3	133	42	83	637
Tower, Clinton A., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling	601,847	Apr. 5	445	90	83	83
Tower, Daniel W., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Roller attachment for sliding doors	597,310	Jan. 11	1459	342	82	300
Tower, John J. (See Le Roy and Converse, assignors.)						
Tower, Wallace G., et al. (See Young, Harland H., assignor.)						
Towers, Edmund, Yonkers, assignor of three-fourths to J. Gibney and J. C. S. Weills, Sing Sing, N. Y. Bottle	603,350	May 3	184	42	83	637
Towle, Charles S., and A. Tschinkel, New York, N. Y., assignor to F. C. Meislahn, Arlington, N. J. Toy	614,354	Nov. 15	2013	464	85	1043
Towle, William J., St. Paul, Minn. Automatic liquid measuring and filling apparatus	598,035	Jan. 25	2719	635	82	577
Towles, Henry O. (See Walquist, Nelson, and Gronquist, assignors.)						
Towne, Carroll M., Milwaukee, Wis. Box-fastener	611,295	Sept. 27	2111	486	84	1901
Towne, Nathan P., Philadelphia, Pa. Gun turret	606,038	June 21	1853	427 428	83	1739
Towne, Nathan P., Philadelphia, Pa. Turret-driving mechanism	606,039	June 21	1856	428	83	1739
Townes, William A., Milan, Tenn. Currycomb	606,849	July 5	403	86	84	80
Townsend, Elvin E., Capitola, Cal. Seat trip mechanism for flushing-tanks of water-closets	605,150	June 7	170	42	83	1383
Townsend, Emory L. (See Davis and Townsend.)						
Townsend, George A., assignor of one-half to F. P. Baker, Utica, N. Y. Fire-alarm	597,128	Jan. 11	1181	277	82	246
Townsend, Henry C., trustee. (See Kapp, Gisbert, assignor.)						
Toy, Elias L., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Cushion-tire	600,185	Mar. 8	1068	241	82	1443
Tozer, Horace A., Little Falls, N. Y. Embalming and cooling board	616,691	Dec. 27	2770	644	85	2003



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Tozer, John. (See Hall, William H., assignor.)						
Tozier, C. B. (See Arnold, Thomas E., assignor.)						
Tracy, Andrew, assignor of one-half to M. W. Logan, Richland, Iowa. Sash-fastener	610,207	Sept. 6	99	21	81	1459
Tracy, Christopher C., Brooklyn, N. Y. Came	598,827	Feb. 8	1282	310	82	863
Tracy, Harlin J., Salamanca, N. Y. Machine for drawing together ends of surface rods.	598,165	Feb. 1	154	36	82	632
Tracy, Harlin J., Salamanca, N. Y. Windlass and connection	598,166	Feb. 1	155	36, 37	82	632
Tracy, Harriet R., New York, N. Y. Sewing-machine	597,338	Jan. 11	1515	351 355	82	312
Tracy, Harriet R., New York, N. Y. Sewing-machine	613,536	Nov. 1	576	131 132	85	725
Tracy, Harriet R., New York, N. Y. Sewing-machine	613,537	Nov. 1	578	132 133	85	726
Tracy, John D., and J. F. Platt, deceased, Sterling, Ill.; J. W. Platt, administrator. Corn-planter	602,148	Apr. 12	973	212 213 214	83	196
Tracy, John E. (See Morrison and Tracy.)						
Tramm, William F., Beecher, Ill. Wire-stretcher	614,519	Nov. 22	2312	530	85	1111
Trammell, John W., Chattahoochee, Fla. Governor and safety attachment for elevators.	608,981	Aug. 9	1406	332	84	945
Trapp, Charles C. and F., assignors of one-half to J. M. Morgan, Port Washington, Wis. Revolving chair	602,489	Apr. 19	1552	353	83	325
Trapp, Charles C. (See Trapp, Fredrick C., assignor.)						
Trapp, Charles C. and F., Milwaukee, Wis. Chair-iron	612,509	Oct. 18	1609	384	85	333
Trapp, Earl J. and L. M., Virgil, N. Y. Cow-tail holder	611,156	Sept. 20	1830	422	84	1828
Trapp, Edward A., New York, N. Y. Bicycle-support	602,669	Apr. 19	1877	426 427	83	386
Trapp, Edward A., New York, N. Y. Bicycle-support	602,670	Apr. 19	1879	427	83	386
Trapp, Edward A., New York, N. Y. Bicycle-support	602,784	Apr. 19	2056	466 467	83	420
Trapp, Edward A., New York, N. Y. Elevator	610,929	Sept. 20	1408	322	84	1749
Trapp, Edward A., New York, N. Y. Transportation-car	615,373	Dec. 6	287	66, 67	85	1469
Trapp, Frank. (See Trapp, Charles C. and F.)						
Trapp, Fredrick C., assignor to C. C. Trapp, Port Washington, Wis. Revolving chair	597,866	Jan. 25	2435	567	82	523
Trapp, Lee M. (See Trapp, Earl J. and L. M.)						
Traut & Hine Manufacturing Company. (See Adams, George E., assignor.)						
Trautner, Charles, Terre Haute, Ind. Device for temporarily disabling bicycles	605,981	June 21	1741	400	83	1720
Travaglini, Antonio, and E. Teti, Philadelphia, Pa. Car signal and indicator	597,490	Jan. 18	1798	417	82	383
Traver, Eugene. (See Traver, William A., assignor.)						
Traver, William A., assignor of one-half to E. Traver, Weedsport, N. Y. Press	606,695	July 5	108	23	84	24
Travers, Fergus J. (See Jackson and Travers.)						
Travers, Vincent P. (See Efros, Charles, assignor.)						
Travis, James, Jr., Cascade, Mont. Grain-drill	611,582	Sept. 27	2660	612 613	84	2003
Travis, James, Jr., Cascade, Mont. Combined sod-cutter, harrow, and seed-planter	611,583	Sept. 27	2662	613	84	2003
Traynor, William J. H., et al. (See Crane and Esch, assignors.)						
Treat, Lincoln A., assignor to Ohio Steel Company, Youngstown, Ohio. Bar-piling mechanism	610,749	Sept. 13	1088	249	84	1668
Tredwell, Charles A., assignor to Bristol Bell Company, Bristol, Conn. Bicycle-bell	598,259	Feb. 1	333	77	82	665
Tree, Eber B., Woodstock, assignor to W. O. Taylor, Princeton, Canada. Rotary engine	616,643	Dec. 27	2065	617 618	85	1983
Trefethen, Charles N., et al. (See Nesmith, Frederick P., assignor.)						
Trefethen, Ervin T., Boston, Mass., assignor of one-half to A. O. Norton, Coaticook, Canada. Double-action jack	613,949	Nov. 8	1277	290	85	880
Trefethen, Melville W., et al. (See Nesmith, Frederick P., assignor.)						
Tregurtha, George E., Malden, Mass. Device for reversing motion of propeller-wheels, &c.	611,187	Sept. 20	1880	434	84	1838
Tremaine, Edward G. (See Lorillard and Tremaine.)						
Tremaine, Edward G., Brooklyn, and P. Lorillard, Jr., Tuxedo, N. Y., assignors to P. Lorillard Company, Jersey City, N. J. Pressing-machine	606,478	June 28	2684	618 619	83	1921
Trembath, Dionysius W., New York, N. Y. Cover for stationary washtubs	614,217	Nov. 15	1744	401	85	993
Tremearne, John, Creswick, Victoria. Desk attachment for chairs, &c.	599,069	Feb. 15	1704	404	82	961
Trench, John T., Kenmare, Ireland. Pneumatic-tired wheel	602,671	Apr. 19	1882	428	83	386
Trench, John T., Kenmare, Ireland, assignor to Trench Tubeless Tyre Company, Limited, London, England. Pneumatic tire	611,584	Sept. 27	2664	613	84	2004
Trench Tubeless Tyre Company. (See Trench, John T., assignor.)						
Tresenreiter, Max, Munich, Germany. Attaching tooth-crowns	616,815	Dec. 27	2976	694	85	2046
Tresidder, Tolmie J., Sheffield, England. Apparatus for applying heat to surfaces of armor-plates, &c.	607,777	July 19	2276	481	84	477
Tressel, Joseph J. (See Vedder and Tressel.)						
Trethewey, William G., Vancouver, Canada. Can-labeling machine	598,277	Feb. 1	367	85, 86	82	671
Trevessick, William J., Glen Campbell, Pa. Car-coupling	610,666	Sept. 13	947	219	84	1640
Triance, John C., Rochester, Pa. Paste-mold glass-blowing machine	611,157	Sept. 20	1831	422	84	1829
Tribune Association. (See Horgan, Stephen H., assignor.)						
Tribuzio, Catello, assignor of one-half to Bender & Martiny, Turin, Italy. Valve for pneumatic tires	616,750	Dec. 27	2869	665	85	2024
Trick, Christopher, Dayton, Ohio. Bone-cutting machine	610,335	Sept. 6	377	79	84	1512
Trieb, August. (See Speckenbach, Otto, assignor.)						
Triggs, George A., Elgin, Ill. Fire-pot for tinnern's use	597,550	Jan. 18	1886	437	82	401
Trimble, Frank, Greensburg, Ind. Mop-wringing attachment for pails	605,362	June 7	596	132	83	1465
Trimble, John A., Interior, S. D. Non-refillable bottle	606,256	June 28	2283	528	83	1842
Trimont Manufacturing Company. (See Childs, Eugene, assignor.)						
Trimpi, William W., East Orange, assignor to Newark Rivet Works, Newark, N. J. Self-closing umbrella	598,828	Feb. 8	1283	310	82	863
Trinder, Henry, Worcester, Mass. Shoe-fastening	616,040	Dec. 13	1498	350	85	1718
Triplett, Claiborne W., Leland, Oreg. Rotary engine	601,916	Apr. 5	563	116	83	107
Tripp, Edward A., Chicago, Ill. Ash-sifter	596,924	Jan. 4	812	192	82	159
Tripp, Frank F. (See Benham and Barlow, assignors.)						
Tripp, Jacob W., New York, N. Y. Adjustable stop-templet	600,390	Mar. 8	1398	320	82	1506
Tripp, James, New York, N. Y., assignor to Chicago Sewing Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines	612,881	Oct. 25	2321	552	85	487
Tripp, John W. (See Lanyon and Tripp.)						
Tripp, Willard F. (See Smith and Tripp.)						
Tripp, William J., New York, N. Y. Ball-bearing	598,402	Feb. 1	560	137	82	709
Tripp, Fred H. (See Camp, Harry F., assignor.)						
Trippett, Wesley H., Redlands, Cal. Magazine-pistol	606,493	June 28	2707	624	83	1926
Trisler, Early C., Home City, Ohio. Gathering attachment for lawn-mowers	601,008	Mar. 22	2482	564	82	1743
Trisler, John, Jamaica, Ill. Gate	607,300	July 12	1248	266	84	257
Troehler, Rudolph, Cincinnati, Ohio. Barrel-washing machine	607,097	July 12	874	188	84	188



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Trojan Car Coupler Company. (See Foster, Charles E., assignor.)						
Tromblee, Andrew, Port Henry, N. Y. Wood-pulp-grinding machine	597,208	Jan. 11	1307	305	82	270
Tron, William (See Ganon, Henry F., assignor.)						
Trossin, Otto, Hamburg, Germany. Steam-turbine	604,507	May 24	2370	538 539	83	1126
Trott, George V., assignor of one-half to E. M. Cozens, Chicago, Ill. Telegraphy	608,932	Aug. 9	1408	333	84	946
Trotter, Charles W., Rochester, N. Y. Furnace	605,240	June 7	336	78	83	1415
Trotter, George, <i>et al.</i> (See Brown, Herbert C., assignor.)						
Trotter, Walter F., Marshalltown, Iowa. Oil or gas engine	603,297	May 3	88	22	83	618
Troutt, James W., Elkton, Ky. Spark-arrester	605,363	June 7	598	133	83	1465
Troutt, Thomas E., Hopewell, Mo. Animal-trap	608,493	Aug. 2	573	128	84	769
Troubetzkoy, Luigi, Milan, Italy. Apparatus for generating acetylene gas	614,906	Nov. 29	3019	691	85	1260
Troup, Edward L., Deshler, Ohio. Plow-point	612,444	Oct. 18	1505	362	85	314
Trowbridge, Henry, <i>et al.</i> (See Brengman, John, assignor.)						
Troy, Edward, Lacey, Iowa. Hay-rack	612,533	Oct. 18	1648	392	85	340
Troy Laundry Machinery Company. (See Buell, Edward W., assignor.)						
Troy Laundry Machinery Company. (See Moe, Buell, Roberts, and Conkling, assignors.)						
Truax, Earnest A. (See Truax, George E. and E. A.)						
Truax, George E., Denver, Colo. Ore-car	601,203	Mar. 22	2799	640	82	1804
Truax, George E., Denver, Colo. Ore-car	607,785	July 19	2293	484	84	480
Truax, George E. and E. A., Denver, Colo. Hand-hoist or windlass	600,973	Mar. 22	2408	550	82	1730
Truax, Joseph, Oakwood, Ill. Wire fence	611,659	Oct. 4	116	29	85	25
Truba, Edward L., Detroit, Mich. Ball-bearing	606,040	June 21	1858	428	83	1740
Truby, Jacob M. (See Thomas and Truby.)						
Trudeau, Adelard, Hartford, Conn. Non-refillable bottle	615,001	Nov. 29	3214	739	85	1301
True, Charles E., Muskegon, Mich. Fastening device for scarf-pins, hat-pins, &c.	610,617	Sept. 13	874	200	84	1625
Trueblood, Hezekiah L., Indianapolis, Ind. Combination saw-tool	603,491	May 3	463	103	83	689
Trueblood, Samuel L., Richmond, Va. Grain-car door	612,445	Oct. 18	1505	363	85	314
Truesdell, Charles P., Chicago, Ill. Dumping-car	612,555	Oct. 18	1691	402	85	349
Truex, William S., Trenton, N. J. Odorless cooking utensil	609,480	Aug. 23	2464	575	84	1181
Trull, John M., Trull, Colo. Wire-fence stretcher	611,660	Oct. 4	117	29	85	26
Truman, Jonathan G., Lemon City, Fla. Electric motor	606,605	June 28	2916	675	83	1966
Trumpler, Fred, Hoople, N. D. Shoe-scraper	598,451	Feb. 1	656	162	82	728
Trunk, Benjamin W., St. Joseph, Mo. Triangle	605,763	June 14	1275	295	83	1616
Trusler, Charles L., Indianapolis, Ind. Triturator	605,302	June 7	469	105 106	83	1441
Trussell, Emory A., assignor to Sieber & Trussell Manufacturing Co., St. Louis, Mo. Combined clip-board and bookbinder	601,027	Mar. 22	2508	570 571	82	1748
Trussell, Emory A., assignor to Sieber & Trussell Manufacturing Co., St. Louis, Mo. Order-holder	604,095	May 17	1594	358	83	959
Tryon, D. W., <i>et al.</i> (See Parsons, Willard T., assignor.)						
Tryon, Edward E., East Hartford, Conn. Bicycle-lock	601,290	Mar. 29	2986	675	82	1868
Tschantz, David L., Orrville, Ohio. Hay-carrier	601,291	Mar. 29	2988	675	82	1869
Tschinkel, Alfred. (See Towle and Tschinkel.)						
Tschopp, Henry M., Pickerington, Ohio. Dish-drainer	611,533	Sept. 27	2551	589	84	1983
Tubbs, George W., assignor of one-half to C. E. Cotton, Cleveland, Ohio. Cushion-tire for bicycles	609,922	Aug. 30	3228	756	84	1342
Tubbs, Nelson J., Knoxville, Tenn. Churn	601,387	Mar. 29	3149	711	82	1898
Tubbs, Watson E., South Haven, Mich. Pan-handle	606,904	July 5	483	104	84	96
Tucek, Marie, New York, N. Y. Garment-drafting pattern	600,050	Mar. 1	766	174 175	82	1364
Tuchscherer, Louis, Chicago, Ill. Bicycle brake and support	601,185	Mar. 22	2766	634	82	1798
Tuck, Josiah H. L., San Francisco, Cal. Apparatus for softening and excavating frozen earth	612,919	Oct. 25	2374	565	85	497
Tucker, Benjamin W., Newark, N. J. Car-truck	598,651	Feb. 8	999	241	82	809
Tucker, Benjamin W., Newark, N. J. Car-truck	599,882	Mar. 1	394	88	82	1288
Tucker, Benjamin W., assignor to Automatic Rotary Stoking Grate Company, Newark, N. J. Furnace for steam-boilers	611,661	Oct. 4	120	29 30 31	85	26
Tucker, Benjamin W., and W. S. Corwin, Newark, N. J. Elevator-bucket	598,829	Feb. 8	1284	311	82	863
Tucker, Benjamin W., and W. S. Corwin, Newark, N. J. Elevator	601,490	Mar. 29	3324	752	82	1933
Tucker, Charles H. (See Facer, Wilson E., assignor.)						
Tucker & Dorsey Manufacturing Company. (See Dorsey, Robert L., assignor.)						
Tucker, Frank. (See Gilman, Charles A., assignor.)						
Tucker, Frank P., Somerville, Mass. Carton	601,884	Apr. 5	507	104	83	95
Tucker, George V. (See Stretch, Joseph, assignor.)						
Tucker, Joseph S., Chicago, Ill. Electric rail-bond	609,252	Aug. 16	2036	481	84	1081
Tucker, Perry F., Geneva, N. Y. Spoke-socket for vehicle-wheels	599,271	Feb. 15	2033	482	82	1022
Tucker, Reuben G., La Grande, Oreg. Bicycle-brake	614,676	Nov. 22	2600	590	85	1163
Tucker, Richard N., West Hoboken, N. J. Repairing plug and patch for pneumatic tires	598,650	Feb. 8	998	241	82	809
Tucker, Sarah, Handsworth, England. Paper-fastener	614,520	Nov. 22	2314	530	85	1112
Tucker, Smith, assignor of one-half to G. Arnold, Medina, N. Y. Truss-pad	603,932	May 10	1253	285	83	860
Tucker, William, assignor to T. B. Laycock Manufacturing Company, Indianapolis, Ind. Machine for stuffing mattresses	597,446	Jan. 18	1721	397 398	82	368
Tucker, William W. (See Goodrich, Clarence L., assignor.)						
Tucker, William W., Hartford, Conn. Oil-cup	596,639	Jan. 4	321	69	82	63
Tucker, William W., Hartford, Conn. Ball-bearing for cycles or velocipedes	601,821	Apr. 5	377	79	83	71
Tucker, William W., and C. L. Goodrich, Hartford, Conn. Driving mechanism for velocipedes	597,209	Jan. 11	1309	305	82	270
Tuckerman, Albert W., Wakefield, Mass. Gas-cock	602,202	Apr. 12	1071	235	83	216
Tuckfield, George A., Salt Lake City, Utah. Trunk-fastening	612,286	Oct. 11	1241	298	85	250
Tucman, Albertus. (See Mazzanovich, Anton, assignor.)						
Tuell, Lydia A., Chicago, Ill. Compartment baking-pan	608,930	Aug. 9	1405	332	84	945
Tuer, George S. (See Fowler and Tuer.)						
Tuerk, Albert. (See Blessing, John G., assignor.)						
Tullis, Amos E., Fargo, N. D. Artificial leg	598,452	Feb. 1	657	162	82	728
Tully, Michael. (See Tourville, Charles B., assignor.)						
Tumney, Patrick J. F. (See Barrett, Lyons, and Tumney.)						
Tunnah, James, Little Rock, Ark. Printer's chase	603,214	Apr. 26	2799	639	83	577
Tunnell, Wilbur F., <i>et al.</i> (See Bennum, George W., assignor.)						
Tunzelmann, George W., de London, England. Carbon for electric welding	616,165	Dec. 20	1766	409	85	1788
Tupper, Silas R., <i>et al.</i> (See McClair, Charles A., assignor.)						
Tupper, Silas R., <i>et al.</i> (See Smallwood, Robert, assignor.)						
Turbeville, John B., Dublin, Tex. Cook-stove	608,533	Aug. 2	640	144	84	782
Turbeville, John B., and M. F. Higgs, Lingleville, Tex. Washing-machine	601,740	Apr. 5	229	45	83	44



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Turck, Frederick M., assignor of one-half to P. Hano, New York, N. Y. Manifold- register	608,534	Aug. 2	642	145	84	782
Turk, John W., and W. T. Harris, Bardwell, Ky. Automatic safety car-coupling	599,883	Mar. 1	396	88	82	1288
Turnbull, David H., Florence, Ala. Running-gear for wagons	610,979	Sept. 20	1498	341	84	1765
Turnbull, George A., assignor of one-half to C. A. Whyland, Chicago, Ill. Vehicle-tire	601,620	Mar. 29	3525	804	82	1973
Turnbull, George A., assignor to R. E. Turnbull, Chicago, Ill. Lath	609,481	Aug. 23	2465	575	84	1181
Turnbull, Rosella E. (See Turnbull, George A., assignor.)						
Turnbull, Thomas D. (See George, Turnbull, and Coyle.)						
Turner, Albert, <i>et al.</i> (See Clarke, George R., assignor.)						
Turner, Alexander, assignor of one-half to J. D. Adams, Indianapolis, Ind. Voting-ma- chine	613,338	Nov. 1	205	46, 47	85	656
Turner, Allen, Kansas City, Mo. Automatic elevator-gate	611,662	Oct. 4	126	31	85	27
Turner, Caleb R., Brooklyn, N. Y. Fifth-wheel	596,640	Jan. 4	322	70	82	63
Turner, Collatinus A. (See O'Connor and Turner.)						
Turner, Donald L., Wellington, New Zealand. Releasing device	602,569	Apr. 19	1686	384	83	349
Turner, E. J., <i>et al.</i> (See Lynch and Hough, assignors.)						
Turner, Emerson P., Norwich, Conn. Dress-guard for bicycles	597,867	Jan. 25	2436	567	82	523
Turner, Frank B., <i>et al.</i> (See Osborne, William W., assignor.)						
Turner, Frederick E., Kansas City, Mo. Elevator	605,937	June 21	1651	379	83	1704
Turner, George, and J. M. H. Venour, London, England. Permutation-tire	611,296	Sept. 27	2112	487	84	1902
Turner, George W., and J. A. Wiles, assignors of one-third to F. Bundy, Dayton, Ohio. Combined match-safe and advertising device	612,936	Oct. 25	2402	572	85	504
Turner, George W., and A. F. W. Leslie, assignors, by mesne assignments, of one-third to G. H. Backus, New York, N. Y. Composite printing-plate and apparatus for making same	613,786	Nov. 8	1003	229	85	828
Turner, Henry H., <i>et al.</i> (See Clarke, George R., assignor.)						
Turner, Herbert C. (See Reynolds and Turner.)						
Turner, Herbert C., assignor to American Indicator Company, San Francisco, Cal. Sta- tion-indicator	605,938	June 21	1653	379	83	1705
Turner, Herbert C., assignor to American Indicator Company, San Francisco, Cal. Sta- tion-indicator	607,098	July 12	876	189	84	188
Turner, James, Paterson, N. J., assignor to Kearney & Foot Company, New York, N. Y. } Machine for cutting rasps	598,585	Feb. 8	887	{ 212 213 }	{ 82 82 }	{ 789 789 }
Turner, James, Paterson, N. J., assignor to Kearney & Foot Company, New York, N. Y. } Rasp-punching machine	610,618	Sept. 13	875	{ 200 201 }	{ 84 84 }	{ 1625 1625 }
Turner, James B., Coudersport, Pa. Picture-frame hanger	606,816	July 5	340	72	84	68
Turner, James S., Chelmsford, Mass. Machine for covering rolls with leather	609,597	Aug. 23	2658	621	84	1218
Turner, Joseph, Tillery, N. C. Railway transfer-table	607,146	July 12	962	208	84	203
Turner, Mate K., Cedar Rapids, Iowa. Audiphone	597,037	Jan. 11	1008	238	82	212
Turner, Oscar. (See Leach and Turner.)						
Turner, Robert, Des Moines, Iowa. Type-writing machine	597,038	Jan. 11	1009	{ 238 239 }	{ 82 82 }	{ 212 212 }
Turner & Seymour Manufacturing Company. (See Atkins, George H., assignor.)						
Turner, Thomas L., McAlester, assignor of one-fourth to W. Lewis, Krebs, Ind. Ter. Bi- cycle	599,048	Feb. 15	1673	396	82	956
Turner, Thomas R., San Francisco, Cal. Convertible berth and settee for ships	610,421	Sept. 6	530	{ 116 117 }	{ 84 84 }	{ 1540 1540 }
Turner, Tom N. (See Roberts and Davis, assignors.)						
Turner, Vaughn & Taylor Company. (See Hawkins, John W., assignor.)						
Turner, William, assignor of one-half to J. Henderson, Wenatchee, Wash. Water-mo- tor	611,874	Oct. 4	490	118	85	98
Turner, William A. (See Reynolds and Turner.)						
Turner, William A., assignor to American Indicator Company, San Francisco, Cal. Sta- tion-indicator	604,483	May 24	2328	528	83	1119
Turner, William A., assignor to American Indicator Company, San Francisco, Cal. Sta- tion-indicator	607,200	July 12	1054	{ 228 229 }	{ 84 84 }	{ 220 220 }
Turner, William B., assignor to S. Insull, Chicago, Ill. Apparatus for cleaning waste	599,070	Feb. 15	1706	{ 404 405 }	{ 82 82 }	{ 962 962 }
Turner, William B., Somerville, assignor to Tanners' and Curriers' Machinery Company, } Boston, Mass. Machine for working hides or skins	615,656	Dec. 6	812	{ 188 189 }	{ 85 85 }	{ 1572 1572 }
Turney, Edward, assignor of one-half to Smith & Watson Iron Works, Portland, Oreg. Friction-clutch	607,557	July 19	1898	392	84	405
Turney, Frederick N., Nottingham, England. Apparatus for extracting oil	614,039	Nov. 8	1419	325	85	909
Turpin, David R., Fairmount, Ill. Trestle	603,351	May 3	185	42	83	637
Turpin, Perry B., administrator. (See Fortuño, Manuel.)						
Turri, George G. (See Boddam, Edmond M. T., assignor.)						
Turri, George G. (See Stephen, George, assignor.)						
Tust, Paul. (See Schmidt and Tust.)						
Tustison, Frank A., Montana, Kans. Combined chair, crib, cradle, bed, and walker	604,341	May 17	2057	{ 460 461 }	{ 83 83 }	{ 1049 1049 }
Tuthill, Victor M., <i>et al.</i> (See Bolton, Orrin B., assignor.)						
Tuttle, Beeri W., deceased, Shullsburg, Wis.; J. L. Tuttle, administrator. Stock-wa- terer	607,301	July 12	1248	266	84	258
Tuttle, Calvin B., trustee. (See Beede and Cannon, assignors.)						
Tuttle, Calvin B., trustee. (See Cannon, Alexander G. and E. W., assignors.)						
Tuttle, Daniel M., Oneida, N. Y. Gas-engine	604,241	May 17	1860	{ 416 417 }	{ 83 83 }	{ 1010 1010 }
Tuttle, George H., assignor of one-third to F. H. Willard, Cambridge, Mass. Inhaler	609,923	Aug. 30	3229	756	84	1343
Tuttle, Gutie H., Montgomery, Ala., assignor of nine-tenths to W. W. Buford, Donald sonville, La. Rotary engine	600,753	Mar. 15	2050	469	82	1650
Tuttle, Henry A., Stamford, Conn. Tapping-machine	610,208	Sept. 6	101	21	84	1460
Tuttle, Hiram H., Washington, D. C. Dish-washer	616,372	Dec. 20	2150	{ 500 501 }	{ 85 85 }	{ 1865 1865 }
Tuttle, Jerome L., administrator. (See Tuttle, Beeri W.)						
Tuttle, Luther T. (See Hosford, William J., assignor.)						
Tuttle, Willard S., Brooklyn, N. Y. Metallic-frame joint	599,541	Feb. 22	2573	603	82	1148
Tweedale, Frederick N., <i>et al.</i> (See Hancock and Scholes, assignors.)						
Twitchell, Walter E., St. Helena, Cal. Motor-carriage	610,503	Sept. 6	682	153	84	1570
Twining, Charles, Halifax, Canada. Vessel and sail and rigging therefor	606,104	June 21	1977	{ 454 455 }	{ 83 83 }	{ 1764 1764 }
Twining, William S., assignor to Union Traction Company, Philadelphia, Pa. Street sprinkler	596,669	Jan. 4	372	83	82	74
Twist, Joseph F., assignor of one-half to L. D. Radgesky, San Francisco, Cal. Bicycle- saddle	605,151	June 7	171	43	83	1383
Twist, Levi, Albert Lea, Minn. Combined scoop and hand-truck	609,129	Aug. 16	1803	429	84	1033



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Twisted Wire Box Strap Company. (See Gardner, Augustus H., assignor.)						
Twisted Wire Box Strap Company. (See Mitchell, Charles W., assignor.)						
Twitchell, Ernst, Cincinnati, Ohio. Decomposing fats or oils into fatty acids and glycerin	601,303	Mar. 29	3499		82	1969
Twitchell, Selden, Philadelphia, Pa. Filtering apparatus	605,152	June 7	173	43	83	1384
Twomey, James P., and R. C. Mills, Anaheim, Cal. Subsoil attachment for riding-plows	609,850	Aug. 30	3107	724	84	1319
Tyack, Richard. (See Hopkinson and Tyack.)						
Tyack, William, Chicago, Ill. Pipe-wrench	615,926	Dec. 13	1280	299	85	1674
Tyberg, Oluf, Brooklyn, N. Y. Milling-machine	596,670	Jan. 4	374	83, 84	82	74
Tyden, Emil, Chicago, Ill. Seal	610,955	Sept. 20	1456	333	84	1757
Tyden, Emil, Chicago, Ill. Seal	614,634	Nov. 22	2524	575	85	1150
Tyden, Emil, Chicago, Ill. Carrier for die-presses	616,213	Dec. 20	1845	427	85	1803
Tyden, Emil, assignor to Metropolitan Filter Company, Chicago, Ill. Water-filter	602,883	Apr. 26	2234	506	83	469
Tyer Rubber Company. (See McTernan, Andrew, assignor.)						
Tyler, Aaron J., Passaic, N. J. Domestic water-service	607,778	July 19	2279	481	84	477
Tyler, Abel D., Jr., Brockton, Mass. Shoe-treeing machine	609,130	Aug. 16	1804	430	84	1033
Tyler, Abel D., Jr., Brockton, Mass. Combined boot or shoe tree and top-stretcher	615,002	Nov. 29	3215	739	85	1301
Tyler, Abel D., Jr., assignor of one-half to S. Mawhinney, Worcester, Mass. Last	601,621	Mar. 29	3525	804	82	1974
Tyler, Abel D., Jr., assignor of one-half to S. Mawhinney, Worcester, Mass. Last	601,622	Mar. 29	3528	804	82	1974
Tyler, Charles C., and C. L. Grohmann, Hartford, Conn. Milling-machine	612,466	Oct. 18	1543	370 371	85	321
Tyler, Charles R., Brooklyn, N. Y. Portable water-heater	601,452	Mar. 29	3263	738	82	1920
Tyler, Charles R., and C. F. Pries; said Tyler assignor to C. F. Walther, Brooklyn, N. Y. Water-heater	602,040	Apr. 5	782	169 170	83	148
Tyler, Elias M., Auburn, Cal. Reversible ratchet-wrench	603,159	Apr. 26	2716	617	83	562
Tyler, Francis M. and W. W., Auburndale, Mass. Switch-operating mechanism for street-railways	606,433	June 28	2615	603	83	1908
Tyler, Hiram. (See Ohmer and Tyler.)						
Tyler, Hiram. (See Ohmer and Tyler.) (Reissue.)						
Tyler, Lorin C., Alexandria, Ohio. Gate	610,422	Sept. 6	533	117	84	1541
Tyler, Waldo H. (See Crocker, George W., Jr., assignor.)						
Tyler, William E., assignor of three-fourths to H. B. Hutchison, Aldie, J. A. Nicol, and F. E. Ransdell, Manassas, Va. Lifting-jack	605,210	June 7	282	65	83	1403
Tyler, William H., deceased, David City, Nebr.; C. O. Crosthwait, administrator. Husking-pin	608,808	Aug. 9	1148	266	84	899
Tyler, William H. D. (See Hann, Bromley, Price, Smith, and Radcliffe, assignors.)						
Tyler, William W. (See Tyler, Francis M. and W. W.)						
Tymeson, Eugene, assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Loom for weaving tufted fabrics	609,638	Aug. 23	2761	644	84	1237
Tyner, Margaret, Evansville, Ind. Clothes-drainer	601,066	Mar. 22	2570	586	82	1761
Tyng, James A., Short Hills, N. J. Game apparatus	596,556	Jan. 4	165	38	82	34
Tyrell, Alfred D., assignor of one-third to H. Gurney, New York, N. Y. Propelling mechanism for vessels	612,534	Oct. 18	1651	392	85	341
Tyson, William G., Philadelphia, Pa., assignor to M. H. Frank, I. Steinhart, and E. E. Ries, New York, N. Y. Blow-off device for boilers	613,093	Oct. 25	2656	628	85	555
Tytus-Gardner Paper and Manufacturing Company. (See Crist, Charles V., assignor.)						
Ubil, Zachariah T., Ogontz, Pa. Propelling mechanism for bicycles or similar vehicles	610,956	Sept. 20	1460	334	84	1758
Udden, John A., Rock Island, Ill. Toy	612,467	Oct. 18	1551	371	85	322
Udell, C. E., trustee. (See Borlinghaus, August and L., assignors.)						
Udstad, Sigvald, assignor to St. Charles Car Company, St. Charles, Mo. Car-seat	596,925	Jan. 4	813	193	82	159
Uebelacker, Charles F., Newark, N. J. Journal-bearing	600,938	Mar. 22	2359	585	82	1721
Uebelacker, Charles F., Kingston, N. Y. Photographic color-screen	612,937	Oct. 25	2403	572	85	504
Uebelacker, Charles F., assignor to Peckham Motor Truck and Wheel Company, Kingston, N. Y. Maximum-traction truck	598,403	Feb. 1	561	137	82	709
Uehling, Edward A., Newark, N. J. Calorimeter or heat-measuring apparatus	606,749	July 5	214	46, 47	84	44
Uehling, Edward A., Newark, N. J. Traction-dynamometer	614,240	Nov. 15	1802	416	85	1002
Uehling, Edward A., Newark, N. J. Pyrometer	614,241	Nov. 15	1805	416	85	1003
Ufford, Frank M., Norwich, Conn. Luggage-carrier for bicycles	606,796	July 5	303	63	84	60
Uhlig, Karl G. A., Leitelsheim, Germany. Rail and railway-track	608,732	Aug. 9	1014	232	84	873
Uhlmann, Christian F., Limbach, Germany. Fastening device	613,829	Nov. 8	1084	247	85	843
Uhlmann, Ernst, Dobbs Ferry, N. Y., assignor to Non-Intoxicant Beverage Company, of New York. Manufacture of non-intoxicating beverages	613,915	Nov. 8	1220		85	869
Uhri, Jacob, assignor to Wire Bound Box Company, Chicago, Ill. Machine for making box-blanks	608,809	Aug. 9	1150	267 268 269 270 271 272 273	84	899
Ulbrich, Richard C., assignor to W. Firth, Boston, Mass. Humidifier	607,970	July 26	2668	570	84	569
Ullman, Peter, Stafford, Ohio. Car-coupling	603,298	May 3	91	22, 23	83	619
Ulmer, Amos M. (See Fowler and Ulmer.)						
Ulrich, Fritz, Holzminden, Germany. Chair	598,720	Feb. 8	1126	271	82	833
Ulrich, Moritz. (See Bammann and Ulrich.)						
Ulrich, Moritz, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Orange dye and making same	611,663	Oct. 4	129		85	28
Ulrich, Moritz, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Blue dye and making same	611,664	Oct. 4	130		85	28
Ulrich, Wilhelm, assignor to F. Krupp, Essen, Germany. Smokeless-powder cartridge	614,635	Nov. 22	2527	575	85	1150
Umstead, William L., Washingtonville, Pa. Vehicle thill or pole coupling	611,665	Oct. 4	131	32	85	28
Umsted, Clifton T., Fort Scott, Kans. Power mechanism for bicycles	607,532	July 19	1847	384	84	397
Unangst, John T., Braddock, Pa. Overshoe-holder	614,040	Nov. 8	1421	325	85	910
Unbehend, Jacob J., Syracuse, N. Y. Rotary engine	606,606	June 28	2917	675 676	83	1966
Uncapher, Joseph W., assignor of one-fourth to E. E. Wilson, Coffeyville, Kans. Attachment for vehicle-seats	601,186	Mar. 22	2767	634	82	1798
Underhill, Andrew J., 2d, assignor of one-half to H. Schnorr, Gasport, N. Y. Barrel-press	610,592	Sept. 13	840	192	84	1618
Underwood, Franklin, Burr's Mills, N. Y. Fire-escape	604,096	May 17	1596	359	83	960
Underwood, Herman M., assignor to L. M. Cole, Chicago, Ill. Electric-lamp guard	612,999	Oct. 25	2499	595	85	524
Underwood, John T. (See Robertson, William T., assignor.)						
Underwood, John T., New York, N. Y. Type-writer ribbon	614,187	Nov. 15	1635	387	85	982
Underwood, Robert L., Fostoria, Ohio. Ventilating-damper	607,669	July 19	2104	439	84	443
Underwood, Walter H., Hutchinson, Kans. Evaporating apparatus	603,543	May 3	557	123	83	708
Underwood, Walter H., Denver, Colo. Hair-clipper	616,214	Dec. 20	1850	427	85	1804
Ungaro, Jenny, New York, N. Y. Mail-distributing device	611,803	Oct. 4	361	87	85	73



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Ungemach, Julio. (See Guerrero and Ungemach.)						
Unger, Ernest. (See Krug, Philip F., assignor.)						
Unger, Ernest, and P. F. Krug, New York, N. Y. Kinetographic camera.....	596,687	Jan. 4	405	91, 92	82	80
Unger, John W. (See Wilson, Unger, Muma, Brosius, and Kuchel.)						
Unger, John W. (See Wilson, Muma, Unger, Schneekloth, Brosius, and Kuchel.)						
Union Boiler Tube Cleaner Company. (See Forsyth and Bell, assignors.)						
Union Button Sewing Machine Company. (See Lyons, Robert L., assignor.)						
Union Eyelet Company. (See Smith, Stephen N., assignor.)						
Union Granite Company. (See Conway, John, assignor.)						
Union Iron Works. (See Binckley, George S., assignor.)						
Union Iron Works. (See Dickie, George W., assignor.)						
Union Iron Works. (See Rowe, Willard C., assignor.)						
Union Special Sewing Machine Company. (See Hart, William T., assignor.)						
Union Special Sewing Machine Company. (See McNeil, Chester, assignor.)						
Union Special Sewing Machine Company. (See Muther, Lorenz, assignor.)						
Union Special Sewing Machine Company. (See Muther and Holland, assignors.)						
Union Special Sewing Machine Company. (See Woodward, Russel G., assignor.)						
Union Special Sewing Machine Company. (See Woodward and McNeil, assignors.)						
Union Steam Pump Company. (See Moore, Ila N., assignor.)						
Union Switch and Signal Company. (See Chalmers, James, Jr., assignor.)						
Union Switch and Signal Company. (See Coleman, John P., assignor.)						
Union Switch and Signal Company. (See Jones, Joseph R., assignor.)						
Union Switch and Signal Company. (See Schreuder, Jens G., assignor.)						
Union Switch and Signal Company. (See Spicer, Vibe K., assignor.)						
Union Switch and Signal Company. (See Struble, Jacob B., assignor.)						
Union Switch and Signal Company. (See Stupakoff, Simon H., assignor.)						
Union Traction Company. (See Twining, William S., assignor.)						
United Typewriter Company. (See Brooks, Byron A., assignor.)						
United Alkali Company. (See Clarke, William R., assignor.)						
United Alkali Company. (See Driffield, Carey, and Wright, assignors.)						
United Alkali Company. (See Duff, Edward J., assignor.)						
United Alkali Company. (See Luxton, William G., assignor.)						
United Alkali Company. (See Wylde and Kynaston, assignors.)						
United Coke and Gas Company. (See Hilgenstock, Gustav, assignor.)						
United Gas Improvement Company. (See Gartley, Alonzo, assignor.)						
United Hame Company. (See Wiedrich, Charles L., assignor.)						
United Indurated Fibre Company. (See Ormiston, Cyrus D., assignor.)						
United Indurated Fibre Company. (See Peterson, Jesse, assignor.)						
United Mill and Furnace Company. (See Storer, Martin, and Eaton, assignors.)						
United Smoke and Vapor Condensing Company. (See Griffiths, Amos E., assignor.)						
United States Counter Seat Supply Company. (See Prentiss, Junius P., assignor.)						
United States Electrical Leather Process Company. (See Burton, George D., assignor.)						
United States Flax Fibre Company. (See Miller, Mahlon D., assignor.)						
United States Glass Company. (See Altenbaugh, William F., assignor.)						
United States Gramophone Company. (See Clark, Alfred C., assignor.)						
United States Head-Light Company. (See Kirby, John, Jr., assignor.)						
United States Headlight Company. (See Wagenhals, William G., assignor.)						
United States Heater Company. (See Rathbone, John A., assignor.)						
United States Metallic Packing Company. (See Longstreth, Charles, assignor.)						
United States Nomatch Light Company. (See Killing, Carl, assignor.)						
United States Nomatch Light Company. (See Simonini, Angelo, assignor.)						
United States Playing Card Company. (See Bisler, Gustav A., assignor.)						
United States Pneumatic Despatch Company. (See Pike, Charles F., assignor.)						
United States Sanitary Company. (See Taylor, James W., assignor.)						
United States Standard Machine Company. (See Robinson, Hanson, assignor.)						
United States Voting Machine Company. (See Cooper, Henry C. H., assignor.)						
Universal Advertising Machine Company. (See Manley, Horace A., assignor.)						
Universal Buckle Company. (See Rosenkranz, John C., assignor.)						
Universal Calculator Company. (See McCaskey, Alfred S., assignor.)						
Universal Car Bearing Company. (See Fritz, Harry A., assignor.)						
Universal Car Bearing Company. (See Nulsen, Frank E., assignor.)						
Universal Electric Clock Company. (See Richard, Frederic, assignor.)						
Universal Fire Alarm Company. (See Rowand, Lewis G., assignor.)						
Universal Food and Liquid Improving Company. (See Dolley and Rehfuß, assignors.)						
Universal Loom Company. (See Emery, Abram D., assignor.)						
Universal Manufacturing Company. (See Taft, Walter E., assignor.)						
Universal Sander Company. (See Perry, James L., assignor.)						
Universal Surface Electric Railway Company. (See Lawrence, William, assignor.)						
Universal Winding Company. (See Wardwell, Simon W., Jr., assignor.)						
Unterbrink, Ignatius L., Botkins, assignor of one-half to C. A. Layton, Wapakoneta, Ohio. Cabinet.....	613,094	Oct. 25	2657	628	85	555
Unwin, John, London, England. Carving and molding machinery for wood.....	612,882	Oct. 25	2322	553	85	487
Unz, Henry H., Philadelphia, Pa. Type-writing-machine ribbon-spool.....	605,032	May 31	3271	751	83	1318
Unz, Henry H., Philadelphia, Pa., assignor to National Type Writer Company, of Pennsylvania. Type-writer.....	613,178	Oct. 25	2782	656	85	581
Updegraff, Daniel F., Irwin, Pa. Potato-separator.....	615,325	Dec. 6	174	45, 46	85	1447
Updegrave, Jacob D. (See Sprigel, Marcus J., assignor.)						
Updike, David. (See Updike, Nathaniel B. and D.)						
Updike, Nathaniel B. and D., Chestnut Forks, Va. Registering device for poultry-crates.	611,720	Oct. 4	231	56	85	47
Upham, Burt F. (See Humphrey and Upham.)						
Upham, Fred E., Leominster, Mass. Folding stool.....	600,462	Mar. 8	1533	352	82	1530
Uppercu, Inglis M., Brooklyn, N. Y. Bathing-shirt.....	599,408	Feb. 22	2325	549	82	1101
Upshaw, Foy, assignor of one-half to M. L. Bush, Van Alstyne, Tex. Stalk-chopper.....	607,971	July 26	2669	570	84	569
Updegrave, Frank A., Caney, Kans. Lifting-jack.....	604,808	May 31	2896	662	83	1246
Upton, Samuel, Somerville, Mass., assignor to Consolidated Fastener Company, Portland, Me. Button-setting machine.....	608,933	Aug. 9	1412	333	84	947
Upton, William B., Washington, D. C. Mortar-making machine.....	616,373	Dec. 20	2152	501 502 506	85	1865
Urban, Anton, Vienna, Austria-Hungary, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Machine for milling variable grooves in screw-dies.....	602,884	Apr. 26	2236	507 508 225	83	470
Urbanek, Joseph, assignor of two-thirds to T. E. Molacek and M. Palmer, Schuyler, Nebr. Corn-planter.....	603,801	May 10	1007	226	83	813
Uri, Joseph N., Steinauer, Nebr. Fire-escape.....	598,544	Feb. 8	814	195	82	775
Urie, James. (See Campbell and Urie.)						
Urmson, William G., New Brunswick, N. J. Valve.....	604,809	May 31	2898	663	83	1246



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Urmston, Sarah, Indianapolis, Ind. Window-washer	603,581	May 3	609	136	83	719
Urquhart, David, and F. Wynne, London, England. Supply system for electric rail-ways	600,101	Mar. 1	870	200	82	1384
Uschakoff, Ivan, Åbo, Finland. Card-exhibitor	613,339	Nov. 1	211	48	85	657
Usedom, Hellmuth. (See Röhl and Usedom.)						
Usher, Thomas S., Brantford, Canada. Box-hinge	611,423	Sept. 27	2367	543	84	1947
Ussery, John J., Europa, Miss. Harrow	616,166	Dec. 20	1767	409	85	1788
Uster, John, Paterson, N. J. Keyhole-guide	598,297	Feb. 1	407	96	82	679
Utt, Lincoln, Lexington, Mo. Bridge for stringed instruments	615,053	Nov. 29	3318	763	85	1319
Uthes, John E. F. (See Bossert, Frederick, assignor.)						
Vacheron, Eugene F., et al. (See Bourne, Philip, assignor.)						
Vacuum Ale Lift Company. (See McCallum, William A. F., assignor.)						
Vacuum Drier Company. (See Colby, Frank A., assignor.)						
Vacuum Drier Company. (See Parker and Fairbanks, assignors.)						
Vagt, Fritz H., Mandsbeck, Germany. Driving mechanism for cycles with adjustable gearing	611,210	Sept. 20	1918	443	84	1845
Vail, Edward M., and G. Potter, Kewanee, Ill. Postmarking and stamp-canceling machine	606,257	June 28	2284	529	83	1842
Vail, George L. (See Sowers, Vail, and Petitdidier.)						
Vail, J. H., et al. (See Pugh, William J., assignor.)						
Vail, James B., assignor of one-half to W. C. Smith, Weston, Mich. Device for tightening wire	606,178	June 21	2109	485	83	1788
Vail, John, Frostburg, assignor to S. Tanzer and P. J. Sullivan, Cumberland, Md. Single-delivery match-safe	606,750	July 5	217	47	84	45
Vail, Jonathan H., Philadelphia, Pa. System for insulation of electric-conductor wires	612,535	Oct. 18	1652	393	85	341
Vail, Willis W., Quakertown, N. J. Support for hats, coats, &c	611,721	Oct. 4	233	57	85	47
Valdettaro, Louis A., New York, N. Y. Puzzle	601,406	Mar. 29	3184	719	82	1905
Valentine, Evan M. (See Robertson, James U., assignor.)						
Valentine, Joseph D. (See Buck and Valentine.)						
Valentine, Leland U., Greenriver, Utah. Ditching attachment for plows	615,374	Dec. 6	293	68	85	1470
Valiquet, Anna L. (See Valiquet and Sueur, assignors.)						
Valiquet, Louis P., Hoboken, N. J. Operating mechanism for music-boxes	615,765	Dec. 13	1004	234	85	1622
Valiquet, Louis P., Hoboken, and A. Sueur, Jersey City, N. J., assignors to A. L. Valiquet. Music-box	610,504	Sept. 6	685	154	84	1570
Vallenius, Hanna, Moline, Ill. Skirt-supporting belt	613,739	Nov. 8	931	213	85	814
Valley, Gustaf, assignor to Steel Motor Company, Johnstown, Pa. Electric trolley device	597,516	Jan. 18	1837	425	82	391
Van Allen, Lucas H., et al. (See Richardson, Julius C., assignor.)						
Van Alstyne, Charles H., Manchester, Iowa. Self-measuring milk-can	616,594	Dec. 27	2560	592	85	1963
Van Bogaert, Peter, New Decatur, Ala. Lubricator	612,512	Oct. 18	1613	385	85	334
Van Brunt, James K., New York, N. Y. Lamp-bracket and brake for bicycles, &c	612,536	Oct. 18	1654	393	85	342
Van Buren, Jafew S., assignor to Rathbone, Sard & Company, Albany, N. Y. Stove and grate	602,529	Apr. 19	1621	370	83	338
Van Buskirk, Charles L., Lodi, Cal. Conveyer for endless-rope railways	603,215	Apr. 26	2800	640	83	577
Van Buskirk, George, New Lisbon, Ind. Gate	601,991	Apr. 5	701	149	83	132
Van Camp, Benjamin F., Claypool, Ind. Burial-vault	597,625	Jan. 18	2010	469	82	426
Van Camp, George, Indianapolis, Ind. Can-soldering machine	611,462	Sept. 27	2431	558	84	1960
Van Cleve, Frank H. (See Marble, Webster L., assignor.)						
Van Dame, John R., Grand Rapids, Mich. Tailor's square	613,095	Oct. 25	2659	628	85	555
Van den Berghe, Peter. (See McNulty and Van den Berghe.)						
Van den Bosch, Emma. (See Van den Bosch, Frederick, assignor.)						
Van den Bosch, Frederick, assignor to E. Van den Bosch, Parker's Landing, Pa. Packing for pump-pistons	612,687	Oct. 13	1944	460	85	396
Van Depoele, Charles J., deceased, Lynn; C. A. Coffin and A. Wahl, administrators, assignors to Thomson-Houston Electric Company, Boston, Mass. Electric railway-motor	597,156	Jan. 11	1223	287	82	254
Van Derveer, William. (See Wheeler, Elton S., assignor.)						
Van der Sleen, Nicolaas, Haarlem, and A. Schneller, Alfen, assignors to H. Tindal, Amsterdam, Netherlands. Apparatus for sterilizing and purifying water	596,917	Jan. 4	800	189	82	156
Van der Vygh, Albert H., H., and G., Amsterdam, Netherlands. Construction of fire-proof buildings	597,039	Jan. 11	1015	239	82	214
Van der Vygh, Albert H., H., and G., Amsterdam, Netherlands. Composition of matter for fireproof wall-plates, &c	597,129	Jan. 11	1182		82	246
Van der Vygh, Gerhard. (See Van der Vygh, Albert H., H., and G.)						
Van der Vygh, Hendrik. (See Van der Vygh, Albert H., H., and G.)						
Van Deusen, Henry B. (See Melrose and Van Deusen.)						
Van Devanter, Decatur H., Waterford, Va. Ventilated auxiliary seat for chairs	612,620	Oct. 18	1830	434	85	375
Van Develde, John, assignor of one-half to H. H. Hyman, Cleveland, Ohio. Bottle	610,695	Sept. 13	996	231	84	1650
Van Develde, John, assignor of one-half to H. H. Hyman, Cleveland, Ohio. Paper barrel	614,218	Nov. 15	1745	401	85	993
Van Deventer, Christopher, New York, N. Y. Incandescent-electric-lamp socket and base	616,507	Dec. 27	2420	560	85	1938
Van Dorn, Dwight B. (See Van Dorn and Whitehouse.)						
Van Dorn Iron Works. (See Van Dorn and Whitehouse, assignors.)						
Van Dorn, James H. and D. B., and J. T. Whitehouse, assignors to Van Dorn Iron Works Company, Cleveland, Ohio. Locking and indicating mechanism for cell-doors	612,758	Oct. 18	2070	490	85	420
Van Dorn, William T., Chicago, Ill. Draw-bar for railway-cars	606,105	June 21	1984	455	83	1765
Van Dorn, William T., Chicago, Ill. Draft appliance for railway-cars	609,482	Aug. 23	2466	575	84	1182
Van Duijl, Jozua C. H., Kralingsche-Veer, Netherlands. Adjustable spanner or wrench	600,813	Mar. 15	2145	490	82	1667
Van Dyk, Meindert. (See Van Vliet and Gardener, assignors.)						
Van Dyke, Colin I. (See Reich and Van Dyke.)						
Van Dyke, William J. (See Brooks and Van Dyke.)						
Van Fleet, Charles G., assignor to B. Todd and H. W. Mills, Los Angeles, Cal. Composition of matter for manufacturing glass	607,003	July 5	656		84	130
Van Gaasbeek, Washington, New York, N. Y. Chimney-protector	613,740	Nov. 8	932	214	85	814
Van Gelder, Pieter, Sowerby Bridge, assignor to W. P. Thompson, Liverpool, England. Machine for separating dust from air	602,964	Apr. 26	2388	544	83	499
Van Guysling, Walter F., assignor of three-fifths to F. Tillinghast, Albany, N. Y. Lubricator	597,898	Jan. 18	2139	500	82	449
Van Heumen, Hieronimus, Hof van Delft-by-Delft, Netherlands. Means for regenerating steam as a working fluid	607,717	July 19	2177	459	84	458
Van Hoesen, Frederick T. (See Smith, Amos H., assignor.)						
Van Hoesen, Theodore W., Troy, N. Y. Machine for grinding glass tubes	601,720	Apr. 5	191	37	83	38
Van Hoevenbergh, Henry, New York, N. Y. Trolley for electric railways	607,387	July 12	1408	301	84	289



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Van Hoevenbergh, Henry, assignor to N. C. Rogers, New York, N. Y. Electric locomotion	607,302	July 12	1250	266 267	84	258
Van Hoevenbergh, Henry, assignor to N. C. Rogers, New York, N. Y. Electric locomotion	609,851	Aug. 30	3108	724 725	84	1319
Van Hohenhoff, Richard W., Brooklyn, N. Y. Advertising-sign	596,835	Jan. 4	669	154	82	130
Van Horn, William C., Hoopeston, Ill. Non-refillable bottle	612,288	Oct. 11	1244	299	85	250
Van Horne, Victor P. (See Burger, Leopold F., assignor.)						
Van Hosen, Frederick T. (See Smith, Amos H., assignor.)						
Van Look, Martin, Cologne, Germany. Station-indicator	596,521	Jan. 4	108	24	82	22
Van Marter, James G., Lyons, N. Y. Coffee apparatus	612,883	Oct. 25	2324	553	85	488
Van Mater, Paul R., et al. (See Dinsmore, Robert, assignor.)						
Van Melick, Joseph, Cleveland, Ohio. Combination chair, washbench, &c	603,614	May 3	688	153	83	734
Van Olst, Lammert, Orange City, Iowa. Gate latch mechanism	608,353	Aug. 2	336	74	84	722
Van Ommeren, John, Evanston, Ill. Screw	610,423	Sept. 6	534	117	84	1541
Van Orden, Charles, Lawrence, Tex. Apparatus for cleansing and preparing cotton for ginning and baling	599,272	Feb. 15	2034	482	82	1022
Van Orden, John M., Cedar Grove, N. J. Skirt	596,557	Jan. 4	169	38	82	34
Van Pelt, Charles A. (See King, James M., assignor.)						
Van Pelt, Harmon, New Athens, Ill. Corn-shock compressor	603,582	May 3	610	136	83	719
Van Praag, Leonidas A., New York, N. Y. Glove	606,399	June 28	2546	590	83	1892
Van Ripper, Abram H., Nutley, N. J. Fire-extinguisher	605,033	May 31	3272	752	83	1318
Van Ruymbeke, Joseph. (See Jobbins, William F., assignor.)						
Van Schaik, Willem C. L., Rotterdam, Netherlands. Means for controlling flow of liquids	599,462	Feb. 22	2434	572	82	1121
Van Schoick, George R., assignor of one-half to F. W. Stewart, Coldwater, Mich. Wrench	606,317	June 28	2391	553	83	1864
Van Sickle, Edward J., New York, N. Y. Slide for bands	599,542	Feb. 22	2574	604	82	1148
Van Steeter, John H., and G. N. Dow, Salt Lake City, Utah. Running-gear	603,241	Apr. 26	2853	651	83	586
Van Tine, David W., et al. (See Fraley, George B., assignor.)						
Van Vliet, Arie, and J. Gardinier, assignors of one-third to M. Van Dyk, Paterson, N. J. Railway-spike	607,670	July 19	2105	439	84	443
Van Vriesland, Adolphe I., Paris, France. Carbureter	604,948	May 31	3129	719 720	83	1291
Van Voast, Albert B., et al. (See McManus, John B., assignor.)						
Van Voast, Horace S., et al. (See McManus, John B., assignor.)						
Van Wagner, Abraham, assignor of part to W. Van Wagner, New York, N. Y., and C. W. Van Wagner, Hackensack, N. J. Mortising or gang-drilling machine	615,116	Nov. 29	3430	787 788	85	1340
Van Wagner, Charles W., et al. (See Van Wagner, Abraham, assignor.)						
Van Wagner, William, et al. (See Van Wagner, Abraham, assignor.)						
Van Wagoner, Charles H., assignor of three-fourths to H. E. Thomas, I. A. Harper, Lansing, and F. H. Stone, Detroit, Mich. Sleigh-runner	616,215	Dec. 20	1853	428	85	1804
Van Wagoner, William, Syracuse, N. Y. Drilling-machine	596,558	Jan. 4	169	39	82	34
Van Wie, Elmer E., Kenosha, Wis. Building-tile	607,812	July 19	2366	502	84	495
Van Wie, Peter G., assignor to Favorite Stove and Range Company, Piqua, Ohio. Gas-stove	602,041	Apr. 5	784	170	83	148
Van Wormer, Frank E. (See Malone, Glenn C., assignor.)						
Van Zandt, Edwin G., assignor to F. E. Niesen, trustee, St. Louis, Mo. Pneumatic tire	597,569	Jan. 18	1918	447	82	408
Vanande, William E., Hoytville, Mich. Folding crate	612,287	Oct. 11	1242	298	85	250
Vanarsdell, James C. (See Cozine, Charles G., assignor.)						
Vanasselt, Jacob H., Seattle, Wash. Trolley-switch	605,211	June 7	284	66	83	1404
Vance, Alpheus J., Grand Junction, Colo. Water-lifting machine	604,242	May 17	1863	418	83	1011
Vance, Charles G., assignor of two-thirds to J. B. Vance and L. S. Goff, Spencer, W. Va. Rotary engine	602,530	Apr. 19	1623	370 371	83	338
Vance, Emery J., Bay City, and J. M. Leaver, Bay Mills, Mich. Carrier for eggs, fruit, &c	598,755	Feb. 8	1176	282 283	82	842
Vance, J. B., et al. (See Vance, Charles G., assignor.)						
Vance, James H., Pittsburg, Pa. Seal-lock	597,923	Jan. 25	2523	590	82	539
Vandegrift, Andrew J., St. Louis, Mo. Wheel	602,999	Apr. 26	2445	558	83	508
Vandegrift, John H., Allenport, Pa. Rotary engine	609,310	Aug. 16	2147	508 509	84	1103
Vanderbeck, Alexis, Scammon, Kans. Electric brake mechanism	601,992	Apr. 5	703	149	83	133
Vanderlinda, Peter J., Grand Rapids, Mich. Chocolate-coating machine	601,217	Mar. 22	2824	645 646	82	1809
Vanderman, William, Willimantic, Conn. Shower-bath apparatus	603,299	May 3	92	23	83	619
Vandorn, William, Ute, Iowa. Anti-cow-kicker	616,374	Dec. 20	2158	502	85	1866
Vanduzen, Benjamin C., Winton Place, assignor to Vanduzen Gas and Gasoline Engine Company, Cincinnati, Ohio. Gas-engine	600,754	Mar. 15	2051	469 470 482 483	82	1650
Vanduzen, Benjamin C., Winton Place, assignor to Vanduzen Gas and Gasoline Engine Company, Cincinnati, Ohio. Traction-engine	609,253	Aug. 16	2037	484 485 486	84	1081
Vanduzen Gas and Gasoline Engine Company. (See Vanduzen, Benjamin C., assignor.)						
Vanorman, Oliver, assignor of one-half to J. M. Johnston, Los Angeles, Cal. Sash balance and lock	614,779	Nov. 22	2774	634 234	85	1199
Vansickle, Alexander A., assignor of two-thirds to T. M. Defrees, Indianapolis, Ind. Gas-engine	615,766	Dec. 13	1007	235 154	85	1622
Vanstone, Enoch C., Cambria, Wyo. Car-door operating and locking mechanism	610,505	Sept. 6	687	155	84	1571
Vantrees, William, et al. (See Gray, Isaac C., assignor.)						
Vantuyt, Thomas, Nichols, Iowa. Handle-bar	603,671	May 10	788	173	83	771
Varley, Thomas W., New York, assignor to himself, C. P. and R. A. Lenk, Brooklyn, N. Y. Current-indicator	606,369	June 28	2488	578	83	1882
Varney, Almon C., et al. (See Boss, Addy A., assignor.)						
Varney, Alvin W., et al. (See Boss, Addy A., assignor.)						
Varney, Cynthia E., Hemlock, Wis. Device for handling general-delivery letters	613,538	Nov. 1	580	133	85	726
Varney, Joseph T., Lynn, Mass., assignor to Superior Toe-Calk Company, of Maine. Machine for making toe-calks for horseshoes	599,952	Mar. 1	515	117	82	1310
Vaucamps, Valentin, Paris, France. Producing photographs in colors	608,934	Aug. 9	1413	-----	84	947
Vaucher, Charles. (See De La Harpe and Vaucher.)						
Vauchlain, Samuel M., et al. (See Austin, William L., assignor.)						
Vauchlain, Samuel M., Philadelphia, Pa. Steam-boiler	613,539	Nov. 1	580	133	85	726
Vauchlain, Samuel M., Philadelphia, Pa. Compressed-air locomotive	614,041	Nov. 8	1421	326	85	910
Vauchlain, Samuel M., Philadelphia, Pa. Electric locomotive and truck	615,594	Dec. 6	696	160	85	1549
Vauchlain, Samuel M., assignor to himself, G. Burnham, E. H. Williams, W. P. Henszey, J. H. Converse, W. L. Austin, A. B. Johnson, and G. Burnham, Jr., Philadelphia, Pa. Valve-motion	615,202	Nov. 29	3617	831 832	85	1378
Vauchlain, Samuel M., Philadelphia, and J. Y. McConnell, Darby, Pa. Locomotive	600,102	Mar. 1	874	201	82	1385



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Vaughan, Charles W., assignor of one-fourth to J. R. Sutton, Hillsdale, Mich. Brake-pipe connection	597,040	Jan. 11	1016	240	82	214
Vaughan, Charles W., assignor of one-fourth to J. R. Sutton, Hillsdale, Mich. Brake-pipe connection. (Reissue)	11,673	June 28	2975	690	83	1977
Vaughan, Charles W., assignor of one-fourth to J. R. Sutton, Hillsdale, Mich. Swivel pipe-coupling	611,442	Sept. 27	2397	549	84	1952
Vaughan, Harry B., Little Rock, Ark. Car-fan	600,814	Mar. 15	2146	490	82	1667
Vaughan, Henry H. (See Fuhrmann and Nelson, assignors.)						
Vaughan, Henry H., and J. O. Pattee, St. Paul, Minn. Ball-joint for brake-couplings or other uses	605,939	June 21	1656	380	83	1706
Vaughan Lumber Company. (See Handshy, Henry M., assignor.)						
Vaughn, Calvin W., Cuyahoga Falls, Ohio. Sewer-pipe delivering and inverting apparatus	613,741	Nov. 8	934	214 215	85	814
Vaughn, Charles A., Vineland, N. J. Power-hammer	606,370	June 28	2489	578 579	83	1882
Vaughn, Frank B. (See Blanchard and Vaughn.)						
Vaughn, James R., and M. Jenkins, Walnut Shade, Tenn. Folding hay-rake	605,034	May 31	3273	752	83	1318
Vaughn Machine Company. (See Coombs, Thomas P., assignor.)						
Vaughn Machine Company. (See Jones, Albert F., assignor.)						
Vaughn, Preston. (See Galley, Felix, assignor.)						
Vaught, James C. H., Winston, Mont. Vehicle-wheel	612,468	Oct. 18	1552	372	85	322
Vause, Arthur J., Sydney, New South Wales. Sterilizing apparatus	599,205	Feb. 15	1924	455 456	82	1000
Vedder, Elihu, Rome, Italy. Advertising device	616,508	Dec. 27	2422	560 561	85	1938
Vedder, Irving S., Schenectady, N. Y. Egg-tester	602,115	Apr. 12	910	198	83	184
Vedder, Joseph R., and J. J. Tressel, Cincinnati, Ohio. Lock	616,751	Dec. 27	2870	665	85	2024
Veeder, Curtis H., assignor to Veeder Manufacturing Company, Hartford, Conn. Machine for printing index-rings	602,412	Apr. 12	1420	321	83	286
Veeder Manufacturing Company. (See Veeder, Curtis H., assignor.)						
Veit, Henry E., Chicago, Ill. Binder for sheet-music, &c	606,434	June 28	2618	603	83	1909
Veith, Jacob, <i>et al.</i> (See Wascinski, Alexander, assignor.)						
Veith, Jacob, Kansas City, Kans. Pocket cigarette-former	603,714	May 10	853	189	83	783
Velasko, Adolph G., Syracuse, N. Y. Undergarment	604,163	May 17	1715	386	83	983
Venable, Edgar W. (See Bridges, James T., assignor.)						
Venable, Joseph G., Broadwell, Ky. Nut and bolt lock	610,777	Sept. 13	1148	263	84	1680
Venable, Vernon D., Farmville, Va. Unicycle	611,534	Sept. 27	2552	589	84	1983
Venables, Joseph, Bennington, Vt. Spinning-mule	599,813	Mar. 1	261	58	82	1262
Venetian Iron Company. (See Stewart, Theodore L., assignor.)						
Venner, John F., Brownsville, Oreg. Vehicle-propeller	614,907	Nov. 29	3022	691 692	85	1261
Venour, James M. H. (See Turner and Venour.)						
Venter, Conrad H., Cobb, Mo. Mustache-protector	615,003	Nov. 29	3216	740	85	1301
Veon, Andrew E., Brainerd, assignor of one-half to E. W. Lynch, Crow Wing county, Minn. Vapor-lamp	596,765	Jan. 4	552	126	82	106
Verburg, Edwin, Grand Rapids, Mich. Boat	597,595	Jan. 18	1965	457	82	418
Verdier, Mary E., Easton, Pa. Attachment for musical instruments	602,248	Apr. 12	1146	251	83	230
Vérel, Alphonso A., Glasgow, Scotland. Apparatus for applying and removing wheel-tires	601,088	Mar. 22	2599	593	82	1767
Verlenden, Enos. (See Lord, Simeon, assignor.)						
Verley, Albert, Paris, France. Apparatus for producing ozone or ozonized air	597,517	Jan. 18	1838	425	82	392
Vermehren, Johannes, Hellerup, Denmark. Automatic apparatus for preventing collisions on railways	607,303	July 12	1253	267	84	259
Vermilyea, Eugene, assignor of one-half to S. Snyder and J. Metcalf, Waterford, N. Y. Knitting-machine cylinder	604,440	May 24	2238	502	83	1104
Vermilyea, Le Roy. (See Buck, James A., assignor.)						
Vernay, Jean B., Paris, France. Machine for manufacturing bottles, &c	610,931	Sept. 20	1412	323 324 325	84	1750
Vernay, Jean B., Paris, France. Machine for manufacturing bottles, &c	613,096	Oct. 25	2660	628 629	85	555
Vernier, Charles P., Butler, Ind. Heating-drum	608,935	Aug. 9	1415	333	84	947
Vernon, Frederick R., New York, N. Y. Ribbon-reel	613,742	Nov. 8	936	215	85	815
Vernon, Thomas B., Wallington, England. Apparatus for keeping letters or other documents	602,116	Apr. 12	912	198 199	83	185
Verpillier, Emil, and C. W. Graves, Newark, N. J. Doll	604,243	May 17	1865	418	83	1012
Veru Bicycle and Rubber Company. (See Nettleton, Frederick W., assignor.)						
Vessieriat, Frank L. (See Bleakly and Vessieriat.)						
Vetere, Nicolas F., Buenos Ayres, Argentina. Lock	609,852	Aug. 30	3110	726	84	1319
Vetere, Nicolas F., Buenos Ayres, Argentina. Lock	610,932	Sept. 20	1418	325 326	84	1750
Vetter, Alexander F., Long Island City, N. Y., assignor, by mesne assignments, to Meyrowitz Manufacturing Company, Ridgefield, N. J. Apparatus for reducing electric currents and voltage	602,709	Apr. 19	1943	441	83	398
Vezin, Oscar, New York, N. Y. Multiple-cylinder steam-engine	600,958	Mar. 22	2387	544	82	1726
Vicars, John, Sr., Boot, T. and J. Vicars, Jr., Liverpool, England. Mechanical stoker	606,607	June 28	2918	677	83	1966
Vicars, Thomas. (See Vicars, John, Sr., T., and J., Jr.)						
Vicary, C. N., <i>et al.</i> (See Deal, Josiah J., assignor.)						
Vickers, Douglas, and G. T. Buckham, assignors to Vickers Sons & Co., Limited, Sheffield, England. Breech-loading ordnance	602,785	Apr. 19	2061	467 468	83	421
Vickers, Douglas, A. T. Dawson, and G. T. Buckham, assignors to Vickers Sons & Co., Limited, Sheffield, England. Firing mechanism for breech-loading ordnance	610,110	Aug. 30	3552	823 824	84	1407
Vickers, Douglas, A. T. Dawson, and G. T. Buckham, assignors to Vickers Sons & Co., Limited, Sheffield, England. Charge-support for breech-loading guns	613,179	Oct. 25	2784	656	85	581
Vickers, Douglas, A. T. Dawson, and G. T. Buckham, assignors to Vickers Sons & Co., Sheffield, England. Bearing for trunnions of heavy guns	614,042	Nov. 8	1423	326	85	910
Vickers Sons & Co. (See Hawkins, Frank W., assignor.)						
Vickers Sons & Co. (See Vickers and Buckham, assignors.)						
Vickers Sons & Co. (See Vickers, Dawson, and Buckham, assignors.)						
Vickers Sons & Company. (See Dawson and Buckham, assignors.)						
Vickers, Sons & Maxim. (See Dawson and Buckham, assignors.)						
Victor, Jacob. (See Lindsey, Dudley A., assignor.)						
Vidal, Henri R., Paris, France. Making cyanids	596,641	Jan. 4	323	-----	82	63
Vidal, Henri R., Paris, France. Thiazin dye	601,363	Mar. 29	3109	-----	82	1891
Vidal, Henri R., Paris, France. Obtaining dyes from sulfanilic acid	601,364	Mar. 29	3110	-----	82	1892
Vidal, Henri R., Paris, France. Black dye	601,365	Mar. 29	3111	-----	82	1892



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Vidal, Henri R., Paris, France. Making carboxylated products of triphenylmethane.....	603,300	May 3	93	-----	83	619
Vidal, Henri R., Paris, France. Making violet dyes.....	608,354	Aug. 2	338	-----	84	723
Vidal, Henri R., Paris, France. Brown-black sulfur dye.....	608,355	Aug. 2	338	-----	84	723
Vidal, Henri R., Paris, France. Red dye and making same.....	609,598	Aug. 23	2659	-----	84	1218
Vidal, Henri R., Paris, France. Obtaining triphenylmethane derivatives.....	609,599	Aug. 23	2659	-----	84	1218
Vidal, Maurice, Paris, France. Coin-freed apparatus for generating X-rays.....	616,375	Dec. 20	2159	503	85	1867
Vidal, Raymond, Paris, France. Black dye and making same. (Reissue).....	11,659	Apr. 5	797	-----	83	151
Vidler, Louis R., Cramer's Hill, N. J., assignor of two-thirds to S. and A. Greenebaum, Philadelphia, Pa. Ironing-board.....	614,188	Nov. 15	1686	387	85	982
Vieregg, Henry, Grand Island, Nebr. Fire-escape.....	614,043	Nov. 8	1423	326	85	910
Vietor, Alwin, Wiesbaden, assignor to Ausführungen für Eisenbahn-Oberbau-Abtheilung Stossfangschiene Siegm Eppenstein, Berlin, Germany. Railway-rail joint.....	609,853	Aug. 30	3110	726	84	1320
Vignal, Leon, Paris, France. Driving-gear for bicycles.....	607,972	July 26	2671	570	84	570
Vigneron, Adolph T., Providence, R. I. Puzzle.....	600,755	Mar. 15	2057	471	82	1650
Vigreux, Charles A., and L. V. Brillié, Levallois-Perret, France. Electric-arc lamp.....	612,556	Oct. 18	1694	402	85	349
Vile, Albion, Cardiff, England. Gage-glass mounting.....	604,441	May 24	2240	502	83	1104
Viles, Joseph W., Goodson, Mo. Plow.....	597,626	Jan. 18	2011	469	82	426
Villard, John, and J. P. Henderson, Bonham, Tex. Match-safe.....	603,301	May 3	94	23	83	619
Villard, Richard H., Atlanta, Ga. Wheeled scraper.....	608,535	Aug. 2	645	145 } 146 }	84	782
Villejean, Eugène G., and H. J. J. Frossard, Paris, France. Apparatus for generating acetylene gas.....	600,563	Mar. 15	1732	395 } 396 }	82	1588
Villepigue, Auguste D. F. de. (See Bonardi and Villepigue.)						
Villon, Aime M., deceased; F. R. Coudert, Jr., New York, N. Y., administrator. Manufacturing ethylic alcohol.....	608,652	Aug. 9	870	200	84	846
Vincent, Hilaire, assignor of one-half to N. Daigle, Manchester, N. H. Lock.....	606,883	July 5	455	97	84	90
Vincent, Joseph A. (See Jones, Joseph W., assignor.)						
Vincent, Joseph A. (See Sivan, Casimir, assignor.)						
Vincent, Joseph A., Philadelphia, Pa. Combined clock and gramophone.....	602,490	Apr. 19	1553	354	83	325
Vincent, Joseph A., Philadelphia, Pa. Burner for acetylene gas, &c.....	614,636	Nov. 22	2528	576	85	1151
Vincent, Joseph A., Philadelphia, Pa., assignor to Electro Gas Company, of West Virginia. Apparatus for generating acetylene gas.....	602,189	Apr. 12	1053	230	83	212
Vincent, Robert G. (See Knechtel and Vincent.)						
Vincett, George H. (See Haugh and Vincett.) (Reissue.)						
Vine, George, Ansonia, Conn. Instrument for measuring diameters.....	601,721	Apr. 5	192	37, 38	83	38
Vining, Robert W., London, England. Automatic apparatus for taking photographs.....	606,318	June 28	2392	553 } 554 }	83	1865
Vinson, J. T., et al. (See Bowen, Shelby, assignor.)						
Visscher, Fred F., et al. (See Le Bron, Adolphe W., assignor.)						
Visser, Henry, Overisel, Mich. Automatic gate for railway-crossings.....	610,837	Sept. 13	1250	288 } 289 }	84	1702
Vitte, Ferdinand, Sr., Pittsburg, Pa. Apparatus for making sheet-glass.....	600,403	Mar. 8	1535	352	82	1331
Vittner, Frank, Chicago, Ill. Window.....	602,885	Apr. 26	2240	508 } 509 }	83	470
Vive Camera Company. (See Atwater, John L., assignor.)						
Voelker, Alfred, Philadelphia, Pa. Bottle-stopper.....	600,901	Mar. 22	2299	524	82	1709
Voelker, Richard J., St. Louis, Mo. Fire-truck.....	598,453	Feb. 1	658	162	82	728
Vogel & Brothers, William. (See Edwards, Harry M., assignor.)						
Vogeler, Henry, San Francisco, Cal. Bicycle-trainer.....	604,200	May 17	1790	403	83	998
Vogler, Herman J., and A. Flores, San Antonio, Tex.; said Flores assignor to said Vogler. Trolley-guard.....	596,926	Jan. 4	815	193	82	159
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Padlock.....	600,627	Mar. 15	1832	420	82	1607
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Latch.....	602,886	Apr. 26	2242	509	83	470
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sash-fastener.....	610,209	Sept. 6	102	22	84	1460
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Padlock.....	614,312	Nov. 15	1917	442	85	1025
Voigtlander, Oscar, Trenton, N. J. Door-spring.....	611,024	Sept. 20	1584	363	84	1781
Voigtmann, Frank, Chicago, Ill. Fireproof window.....	600,186	Mar. 8	1069	242	82	1443
Voigtmann, Frank, Chicago, Ill. Fireproof window.....	609,854	Aug. 30	3111	727	84	1320
Voith, Firm of J. M. (See Priem, Paul, assignor.)						
Volk, Frederick, Jr., New York, N. Y. Wire-stretcher.....	611,297	Sept. 27	2113	487	84	1902
Volk, John A., New Point, Ind. Threshing-machine.....	607,671	July 19	2106	439	84	444
Volkmann, John H., New York, N. Y. Vending-machine.....	598,545	Feb. 8	816	195	82	775
Volkman, John H., New York, N. Y. Coin-tester for coin-controlled apparatus.....	611,825	Oct. 4	410	98	85	81
Vollath, George, assignor to himself, D. Bauman, Farmington, and O. H. Picher, Joplin, Mo. Bit for diamond drills.....	613,340	Nov. 1	212	48	85	657
Vollmer, Charles, New York, N. Y. Roundabout.....	616,041	Dec. 13	1499	350	85	1719
Vollmer, John C., Jr., Kingston, Ill. Milk-pail rest.....	602,531	Apr. 19	1626	71	83	339
Vollrath, Louis F., San Antonio, Tex. Expanding hub.....	604,278	May 17	1930	432	83	1025
Volsinkler, Adalbert, San Francisco, Cal. Spirit-level.....	600,756	Mar. 15	2058	471	82	1651
Volz, Christian. (See Liebreich, Hans, assignor.)						
Von Chevalier, H. P. de, Uccle, Belgium. Speed-regulator for explosive-engines.....	614,753	Nov. 22	2731	624	85	1191
Von, Henri P. de, Brussels, Belgium. Baby-carriage.....	609,520	Aug. 23	2522	590	84	1192
Von Stege, Charles E. (See Kindt, Gustave F., assignor.)						
Voncanon, William A., Indianapolis, Ind. Combined pad-moistener and letter-press.....	608,733	Aug. 9	1014	232	84	873
Vonderlehr, Frederick. (See Emmerich and Vonderlehr.)						
Vonhausen, August E. F., Wiesbaden, Germany. Driving and guiding mechanism for bicycles.....	614,146	Nov. 15	1616	370 } 371 }	85	969
Voorhees, Jeremiah F., Philadelphia, Pa. Air-brake for railway-trains.....	615,326	Dec. 6	176	46	85	1447
Vorck, John F., New York, N. Y. Fur trimming for ladies' hats.....	611,875	Oct. 4	491	119	85	98
Vorpe, James J., et al. (See Stewart, Robert A., assignor.)						
Vose, Ambrose S. (See Jackson, John, assignor.)						
Vosper, Charles W., Barnstaple, assignor to P. J. Liddell, Exeter, England. Driving-gear for velocipedes.....	613,097	Oct. 25	2662	629	85	556
Voss, Detlef C., Boston, Mass. Making filaments for electric lighting.....	599,306	Feb. 15	2102	-----	82	1034
Vought, Milton I., La Crosse, Wis. Drop-light.....	613,098	Oct. 25	2661	629	85	556
Vredenburg, Frank C., and C. F. Lathrop, Atlantic, Iowa. Plumb-level.....	603,368	May 3	208	47	83	641
Vreeland, Aaron, East Orange, N. J. Protector for pneumatic tires.....	598,330	Feb. 1	454	108	82	688
Vreeland, Aaron, East Orange, N. J. Bicycle-tire.....	609,254	Aug. 16	2049	486	84	1083
Vuilleumier, Olivier. (See Claret and Vuilleumier.)						
Vulcan Iron Works. (See McDermid, Hugh, assignor.)						
Vyne, Leonard, Wilkesborough, N. C. Device for forming belt-lacings.....	612,070	Oct. 11	855	208	85	177



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W. & E. T. Fitch Company. (See Hubbard, George M., assignor.)						
W. S. Hill Electric Company. (See Hill, Warren S., assignor.)						
W. W. Dickinson Hardware Company. (See Rice, Charles E., assignor.)						
W. W. Kimball Company. (See Hedgeland, Frederick W., assignor.)						
Wache, Arnold, Breslau, Germany. Carving-machine	602,887	Apr. 26	2243	509 510	83	471
Wachsmann, Julius, Indianapolis, Ind. Violin	599,814	Mar. 1	263	59	82	1262
Wachter, Wilhelm, Ilmenau, assignor to C. Flemming, Glogau, Germany. Transferring metachromotypes under glaze upon ceramic objects	597,339	Jan. 11	1524		82	313
Waddell, C. E., <i>et al.</i> (See Hudgepeth, James L., assignor.)						
Waddell, John A. L., Kansas City, Mo. Automatic jetty for deepening tidal ways	604,810	May 31	2900	663	83	1247
Waddell, John A. L., and I. G. Hedrick, Kansas City, Mo. Suspension-bridge	605,153	June 7	176	43, 44	83	1384
Waddell, Montgomery, New York, N. Y. Drawbridge	598,167	Feb. 1	157	37, 38	82	633
Waddell, Montgomery, New York, N. Y. Drawbridge	598,168	Feb. 1	160	38	82	633
Wade, Harry, <i>et al.</i> (See Davis, John A., assignor.)						
Wade, James B., Little Rock, Ark. Expansion steam-joint	615,767	Dec. 13	1010	235	85	1623
Wade, James J., Chicago, Ill. Hand-basin or sink	615,466	Dec. 6	467	110	85	1502
Wade, John J., Dolores, assignor of one-third to W. Roesler, Mancos, Colo. Sash-fastener	599,667	Feb. 22	2826	657	82	1198
Wade, Richard A., Brooklyn, N. Y. Shade for handles of bicycles	598,546	Feb. 8	819	196	82	776
Wadell, Frank B., <i>et al.</i> (See Sams, Walter, assignor.)						
Wadleigh, William M., Milks Grove, Ill. Attachment for harvesters	607,099	July 12	879	189	84	189
Wadleigh, William M., Milks Grove, Ill. Harvester, reaper, &c.	607,100	July 12	881	189	84	189
Wadman, Frank J., Onondaga, N. Y. Bicycle	608,936	Aug. 9	1416	334	84	947
Wadsworth, David D., Escondido, Cal. Necktie-holder	600,815	Mar. 15	2147	490	82	1667
Wadsworth, John E. (See Yergin and Wadsworth.)						
Wafford, William P. (See Acre and Wafford.)						
Wagenblast, Franz, New York, N. Y. Holder for hats, coats, umbrellas, &c.	603,544	May 3	559	123	83	709
Wagener, Otto E., assignor of one-half to E. E. Boland and C. H. Lloyd, Pittsburg, Pa. Adjustable curtain-pole support	598,036	Jan. 25	2720	635	82	577
Wagenhals, William G., Dayton, Ohio, assignor to United States Headlight Company, Utica, N. Y. Electric-arc headlight	615,927	Dec. 13	1281	299	85	1674
Waggoner, Albert B., assignor of one-half to W. Waggoner, Arkansas City, Kans. Spring-wheel for vehicles	607,201	July 12	1057	229	84	221
Waggoner, William. (See Waggoner, Albert B., assignor.)						
Wagner, Albert, Chicago, Ill. Pedal attachment for bicycles	615,595	Dec. 6	697	161	85	1549
Wagner, Charles J., Alma, Mo. Carpet-stretcher	611,344	Sept. 27	2195	507	84	1917
Wagner, Edward, St. Louis, Mo. Beer-pasteurizing apparatus	607,304	July 12	1255	268	84	259
Wagner, Frank B., Cleveland, Ohio. Fare box and register	614,147	Nov. 15	1618	371	85	969
Wagner, Frank B., and A. W. Foote, Cleveland, Ohio. Rail-joint bridge	603,352	May 3	186	42	83	637
Wagner, Franz X., New York, N. Y. Velocipede	610,111	Aug. 30	3554	824	84	1408
Wagner, George, assignor to himself and H. J. Hadlich, St. Paul, Minn. Truing device	607,718	July 19	2178	459	84	458
Wagner, Hubert, Buffalo, N. D. Farrier's pincers	601,917	Apr. 5	565	117	83	107
Wagner, Isaac L., assignor of one-half to D. J. Farthing and W. A. McQueen, Butler, Tenn. Wagon-brake	602,786	Apr. 19	2062	468	83	421
Wagner, John W., Oshkosh, Wis. Bicycle-frame	615,768	Dec. 13	1012	235 236	85	1623
Wagner Typewriter Company. (See Manning, Edward J., assignor.)						
Wagner, William F., Philadelphia, Pa. Cheval-glass	615,928	Dec. 13	1288	299	85	1675
Wagner, William F., and O. B. Olin, Hartford, Conn. Boot-cleaner	609,217	Aug. 16	1964	466	84	1065
Wagoner, John N., Sparta, Wis. Hoisting-machine	610,933	Sept. 20	1419	326	84	1750
Wagor, Philo R. (See Wheaton and Wagor.)						
Wahl, Albert, <i>et al.</i> , administrators. (See Van Depoele, Charles J.)						
Wahl, Frederick, Sr., <i>et al.</i> (See Huxley, Charles E., assignor.)						
Wahrer, Maurice. (See Doyle, Thomas M., assignor.)						
Wahtola, Nestor A., Ironwood, Mich. Diaphragm-pump	598,830	Feb. 8	1286	311	82	864
Wahtola, Nestor A., Ironwood, Mich. Diaphragm-pump	599,273	Feb. 15	2035	482 483	82	1023
Waide, Horace M., New York, N. Y. Producing relief-photographs	607,147	July 12	964	208	84	203
Wainwright, Henry H., Philadelphia, Pa. Concrete curb and gutter work	614,587	Nov. 22	2430	554	85	1133
Wainwright, Jacob T., Chicago, Ill. Machine for exhausting molten metal	598,037	Jan. 25	2722	635	82	577
Wainwright, Jacob T., Chicago, Ill. Machine for exhausting molten metal. (Reissue)	11,671	June 21	2116	486	83	1790
Wait, Henry H. (See Warner and Wait.)						
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Varipolar motor or dynamo	599,815	Mar. 1	264	59	82	1262
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Instrument-wind- ing device	605,154	June 7	177	44	83	1384
Waite, Fred, Otley, and J. Saville, Bradford, England. Machine for folding and wrap- ping newspapers	601,741	Apr. 5	230	45, 46	83	44
Waite, Gilman. (See Washburn, Theodore W., assignor.)						
Waite, Guy B., Hoboken, N. J. Beam construction for buildings	606,696	July 5	109	24	84	24
Waite, Henry E., Newton, Mass. Mail-marking machine	599,463	Feb. 22	2435	572 573	82	1121
Waite, Henry E., Newton, Mass. Mail-marking machine	599,464	Feb. 22	2440	573 574	82	1122
Waite, Henry E., Newton, Mass. Mail-marking machine	599,483	Feb. 22	2475	582	82	1129
Waite, Arthur M., Cleveland, Ohio. Car-buffer	604,442	May 24	2241	503	83	1104
Waite, Arthur M., and H. F. Ball, Cleveland, Ohio. Wedge or key for car journal-boxes	601,292	Mar. 29	2990	676	82	1869
Waitzfelder, Albert S., assignor to Kursheedt Manufacturing Company, New York, N. Y. Brush skirt-binding	606,983	July 5	602	131	84	119
Waitzfelder, Albert S., assignor to Kursheedt Manufacturing Company, New York, N. Y. Dress-weight	614,189	Nov. 15	1687	388	85	982
Wakefield, Arthur, London, England. Sanitary or other pipe	608,239	Aug. 2	122	30	84	678
Wakefield, Calvin P., Livingston, Cal. Plow-wheel box	609,713	Aug. 23	2480	673	84	1261
Wakefield, Charles C., London, England. Sight-feed lubricator	611,666	Oct. 4	132	32	85	29
Wakely, Thomas A., Jacksonville, Ill. Rail-joint	612,446	Oct. 18	1510	363	85	315
Walden, Joseph, Orange, N. J. Vamp-stay for shoes	608,734	Aug. 9	1016	233	84	874
Walder, Jacob, deceased, Paterson, N. J.; M. Walder, executrix. Loom	602,491	Apr. 19	1556	354	83	326
Walder, Mary, executrix. (See Walder, Jacob.)						
Waldron, William H., New York, N. Y. Axle	609,255	Aug. 16	2050	487	84	1083
Waldron, William H., New Brunswick, N. J. Color-printing machine	615,596	Dec. 6	698	161	85	1549
Waldron, William H., New Brunswick, N. J. Attachment for paper-coating machines	615,929	Dec. 13	1290	300	85	1676
Waldstein, Martin E., assignor of two-thirds to J. R. De La Mar, New York, N. Y. Re- covering precious metals from their solutions	607,719	July 19	2179		84	458
Walenta, Frank, Yonkers, N. Y. Bicycle-support	610,005	Aug. 30	3394	787	84	1375
Wales, Joshua R., Marlborough, Mass. Bookbinding	605,364	June 7	599	133	83	1465



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Wales, Thomas C., Jr., Boston, and F. L. Rhodes, Winchester, assignors to American Bell Telephone Company, Boston, Mass. Switchboard apparatus, signal, and circuit.	614,677	Nov. 22	2602	591	85	1163
Walkden, Charles, Cape Town, South African Republic. Sweeping-machine.	612,688	Oct. 18	1945	460	85	397
Walker, A. M., <i>et al.</i> (See Mason, William R., assignor.)						
Walker, Albert H., trustee. (See Claussen, Edward E., assignor.)						
Walker, Arthur L., Baltimore, Md. Apparatus for casting metals.	597,367	Jan. 11	1569	365 366	82	322
Walker, Arthur W., Malden, Mass. Cooking-stove.	605,303	June 7	472	106	83	1441
Walker, Benjamin. (See Sargent, Coupe, and Walker.)						
Walker, Byron A., Erie, Pa. Bearing.	605,940	June 21	1659	380 381	83	1706
Walker, Charles E. (See La Poer and Walker.)						
Walker, Charles F., Chicago, Ill. Bicycle-lamp attachment.	599,409	Feb. 22	2325	550	82	1101
Walker Company. (See Black, Charles N., assignor.)						
Walker Company. (See Zweigbergk, Thorsten von, assignor.)						
Walker, Edwin, Erie, Pa. Corkscrew.	611,046	Sept. 20	1618	370	84	1782
Walker, Edwin J., Philadelphia, Pa. Bin.	614,279	Nov. 15	1869	432	85	1015
Walker, Frank, Los Angeles, Cal. Self-cleaning stand-boiler.	610,312	Sept. 6	328	70	84	1504
Walker, Frank D. (See Walker, Henry H. and F. D.)						
Walker, Fred B., assignor to himself and G. W. Reid, San Antonio, Tex. Check-spring.	597,596	Jan. 18	1966	457	82	418
Walker, George. (See Pearce and Walker.)						
Walker, George, New York, N. Y. Pyroxylin composition.	604,181	May 17	1758		83	992
Walker, George B. and J. L., Pensacola, Fla. Funnel.	612,510	Oct. 18	1610	384	85	334
Walker, H. R., <i>et al.</i> (See Lobdell, Emons H., assignor.)						
Walker, Harry K. (See Hocker, John W., assignor.)						
Walker, Henry H. and F. D., Philadelphia, Pa. Adjustable switchboard.	597,228	Jan. 11	1339	312	82	275
Walker, Henry V. (See Taylor and Walker.)						
Walker, James, New York, N. Y. Vehicle-axle.	598,586	Feb. 8	889	213	82	789
Walker, James C., Waco, Tex. Rotary engine.	611,535	Sept. 27	2553	589 590	84	1984
Walker, James C., Waco, Tex. Rotary engine.	611,536	Sept. 27	2559	590 591	84	1985
Walker, James C., Waco, Tex. Rotary engine.	615,597	Dec. 6	699	161 162	85	1550
Walker, James E. A., Walkerton, Canada. Street-car fender.	604,097	May 17	1597	359	83	960
Walker, James E. A., Walkerton, Canada. Bicycle-pedal.	616,167	Dec. 20	1768	409	85	1789
Walker, James H., Plain City, Ohio. Fence-machine.	610,006	Aug. 30	3395	787	84	1375
Walker, John. (See Bintliffe, Caroline N., assignor.)						
Walker, John. (See Simpson, Walker, Strang, and Farnworth.)						
Walker, John A. W., New York, N. Y. Sanitary cuspidor.	607,305	July 12	1257	268	84	260
Walker, John L. (See Walker, George B. and J. L.)						
Walker, Joseph A., Kansas City, Mo. Water-motor.	616,278	Dec. 20	1979	461	85	1831
Walker, Joseph L., Louisville, Ky. Trolley-pole for overhead electric railways.	599,274	Feb. 15	2038	483	82	1023
Walker, Lillian S., Boston, Mass. Corset.	601,722	Apr. 5	194	38	83	38
Walker, Michel. (See Kittelsen and Walker.)						
Walker, Oakley S., Worcester, Mass. Twist-drill-grinding machine.	607,306	July 12	1258	268	84	260
Walker, Oakley S., Worcester, Mass. Magnetic chuck.	614,190	Nov. 15	1688	388	85	982
Walker Otto Company. (See Otto, Louis, assignor.)						
Walker, Peter, Friar's Point, Miss. Bait-holder.	600,241	Mar. 8	1157	263	82	1460
Walker, Robert L., Allegheny, Pa. Furnace.	610,778	Sept. 13	1149	264	84	1681
Walker, Scott, <i>et al.</i> (See Mason, William R., assignor.)						
Walker & Sons, Hiram. (See De Wallace, Harry, assignor.)						
Walker, Thomas, Sidnaw, Mich. Saw-swage.	608,494	Aug. 2	574	129	84	769
Walker, Thomas, Oakland, Cal. Hot-air furnace.	612,369	Oct. 11	1376	333	85	276
Walker, Thomas C., assignor to Midland Foundry and Machine Works Company, Denver, Colo. Attachment for lathes.	602,965	Apr. 26	2390	545	83	499
Walker, Thomas M., Portland, Oreg. Peanut-heater.	597,210	Jan. 11	1312	306	82	270
Walker, V. C., <i>et al.</i> (See Elliott, William J., assignor.)						
Walker, Ward C., Athens, Mich. Lifting-jack.	601,293	Mar. 29	2993	676	82	1870
Walker, William, Summit, N. J. Bottle-stopper.	604,443	May 24	2243	503	83	1105
Walker, William J., St. Louis, Mo. Wrench.	608,735	Aug. 9	1016	233	84	874
Walkins, Louis E., assignor of one-half to F. W. Dickinson, Springfield, Mass. Trolley-actuated switch-operating device for electric railways.	599,307	Feb. 15	2103	498	82	1035
Walkins, Louis E., assignor of one-half to F. W. Dickinson, Springfield, Mass. Protective appliance for electric railways.	600,564	Mar. 15	1734	396	82	1589
Walkins, Louis E., assignor of one-half to F. W. Dickinson, Springfield, Mass. Trolley device for electric-railway cars.	603,672	May 10	789	173 174	83	771
Walkins, Louis E., assignor of one-half to F. W. Dickinson, Springfield, Mass. Rail conductor for electric systems.	604,098	May 17	1599	359	83	961
Walkins, Louis E., assignor of one-half to F. W. Dickinson, Springfield, Mass. Third-rail underground electric-railway system.	605,066	May 31	3329	764	83	1329
Walkins, Louis E., assignor of two-thirds to F. W. Dickinson, Springfield, Mass., and G. M. Jewett, Glenville, Md. Contact device for electric railways.	610,007	Aug. 30	3397	787	84	1375
Walkins, Louis E., Springfield, Mass., assignor to G. M. Jewett, Glenville, Md., and C. N. King, Jersey City, N. J. Contact-rail appliance for electric railways.	610,008	Aug. 30	3398	787	84	1376
Walkins, Louis E., Springfield, Mass., assignor of one-half to G. M. Jewett, Glenville, Md. Electric railway.	610,009	Aug. 30	3400	788	84	1376
Walkins, Louis E., Springfield, Mass., assignor of one-half to G. M. Jewett, Glenville, Md. Electric-railway system.	613,433	Nov. 1	406	93	85	694
Walkins, Louis E., Springfield, Mass., assignor of one-half to G. M. Jewett, Glenville, Md. Electric-railway system.	613,612	Nov. 1	701	162	85	750
Walkins, Louis E., Springfield, Mass., assignor of one-half to G. M. Jewett, Glenville, Md. Electric switch-operating mechanism for railways.	614,412	Nov. 15	2119	487	85	1063
Wall, David M. J., assignor to L. Wall, Buffalo, N. Y. Luggage-carrier.	610,251	Sept. 6	199	44	84	1480
Wall, Frederic W., Indianapolis, assignor of one-half to M. Maffett, Connersville, Ind. Hook and eye.	598,169	Feb. 1	161	39	82	633
Wall, Judson G., Brooklyn, N. Y. Weather-signal indicator.	598,124	Feb. 1	88	21	82	619
Wall, Lillie. (See Wall, David M. J., assignor.)						
Wall, Patrick T. (See Doremus, Victor E., assignor.)						
Wall, Thomas B., assignor of one-half to F. L. Sittser, Tunkhannock, Pa. Nut-lock.	612,370	Oct. 11	1378	336	85	276
Wall, Vincent C. (See Gates, Verner R., assignor.)						
Wall, William L., East Radford, Va. Knife-guard for mowing-machines.	609,376	Aug. 16	2247	531	84	1122
Walla, Anton K., Chicago, Ill. Continuous floor-tiling.	613,099	Oct. 25	2665	630	85	556
Walla, Frank, Frelsburg, Tex. Seed-cotton distributor and cleaner.	610,667	Sept. 13	948	220	84	1640
Wallace, Casper D., Bridgeport, Conn., assignor to American Writing Machine Company, Iliion, N. Y. Type-writing machine.	615,327	Dec. 6	181	46	85	1448



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Wallace, Charles C., Oneonta, N. Y. Whip-socket .....	613,402	Nov. 1	347	80	85	681
Wallace, Charles C., Oneonta, N. Y. Whiffletree-hook .....	615,004	Nov. 29	3217	740	85	1301
Wallace, George M., Yuba City, Cal. Dump-wagon .....	615,598	Dec. 6	702	162	85	1550
Wallace, George R. (See McMurray, Dennis B., assignor.)						
Wallace, Ira F., and W. L. Kellogg, St. Paul, Minn. Exhaust-steam lubricator and feed-water heater for locomotives .....	598,687	Feb. 8	1071	258	82	823
Wallace, Jacob B., Erie, Pa. Horseshoe .....	601,028	Mar. 22	2511	571	82	1749
Wallace, James H. (See Hilton and Wallace.)						
Walling, James H., <i>et al.</i> (See Boening, Ernest, assignor.)						
Wallace, James H., and A. G. Hilton, Fort Fairfield, Me. Chimney-holder .....	606,850	July 5	404	86	84	81
Wallace, James H., and A. G. Hilton, assignors of one-third to W. H. Linton, Fort Fairfield, Me. Sash balance and fastener .....	598,880	Feb. 8	1374	331	82	882
Wallace, John A., Clarkton, Mo. Farm-gate .....	609,483	Aug. 23	2468	576	84	1182
Wallace, Robert H., New Concord, Ohio. Running-gear for vehicles .....	604,811	May 31	2900	663	83	1247
Wallace, Thomas L., assignor to E. C. Atkins & Company, Indianapolis, Ind. Saw .....	597,229	Jan. 11	1339	313	82	275
Wallace, Thomas L., and J. A. Reed, assignors to E. C. Atkins & Company, Indianapolis, Ind. Saw-filing machine .....	610,980	Sept. 20	1499	341 342 343 344 345 346 396 397	84	1765
Wallace, William M., assignor to Fisher Governor Company, Marshalltown, Iowa. Pin-turning machine .....	609,060	Aug. 16	1666	397	84	1010
Wallace, William N., <i>et al.</i> (See Pugh, William J., assignor.)						
Wallace, William W., Springfield, Mass. Pianoforte-action .....	608,938	Aug. 9	1420	335	84	948
Wallace, William W., Willoughby, assignor to American Clay Working Machinery Company, Bucyrus, Ohio. Double die or mold for clay-product machines .....	600,565	Mar. 15	1735	396	82	1589
Wallace, William W., Willoughby, assignor to American Clay Working Machinery Company, Bucyrus, Ohio. Machine for making clay products .....	608,937	Aug. 9	1417	334	84	948
Wallach, Leopold, New York, N. Y. Vacuum-tube lantern .....	602,966	Apr. 26	2392	545	83	499
Wallach, Willy, assignor to C. Loonen, Paris, France. Brush .....	599,816	Mar. 1	266	59	82	1263
Waller, Alexander J., Dassel, Minn. Sack-tie .....	596,642	Jan. 4	323	70	82	64
Waller, Arthur R., Belleville, assignor to Burger Manufacturing Company, Hoboken, N. J. Sheet-metal can .....	602,648	Apr. 19	1830	417	83	376
Walling, James H., <i>et al.</i> (See Boening, Ernest, assignor.)						
Wallingford, William H., Newport, Ky. Tire-tightener .....	599,373	Feb. 22	2247	533	82	1085
Wallis, D. R., <i>et al.</i> (See Taylor, George H., assignor.)						
Wallis, George W., Saginaw, Mich. Hose-coupling reshaper .....	601,689	Apr. 5	119	23	83	25
Wallis, Henry E., assignor of one-half to W. E. Niles, Chicago, Ill. Furnace .....	608,995	Aug. 9	1522	361	84	968
Wallis, Mounteney, Philadelphia, Pa. Bicycle-handle .....	604,444	May 24	2243	503 504	83	1105
Wallis, R. C., <i>et al.</i> (See Taylor, George H., assignor.)						
Walls, Hayden H., Bedford, Ind. Air-pump .....	613,180	Oct. 25	2784	657	85	581
Walls, Richard F., Pisgah, W. Va. Brake-operating mechanism .....	607,558	July 19	1901	393	84	406
Walmsley & Company. (See Strom, Axel A., assignor.)						
Walquist, Frank W., assignor to J. G. Moore, New York, N. Y. Saw .....	615,005	Nov. 29	3218	740	85	1302
Walquist, Frank W., G. Nelson, and J. L. Gronquist, Brooklyn, N. Y.; said Walquist assignor of one-third to H. O. Towles, Washington, D. C. Saw .....	604,279	May 17	1931	432	83	1025
Walrath, Burton A., Blairsburg, Iowa. Mechanical movement .....	601,294	Mar. 29	2995	677	82	1870
Walrath, Nelson J. (See Rowe, Myron, assignor.)						
Walsh, Edward, Jr. (See Hartung, Charles C., assignor.)						
Walsh, Edward, Jr., St. Louis, Mo. Machine for and method of rolling wired glass .....	610,593	Sept. 13	841	192 193	84	1618
Walsh, Edward F. (See Lang, Lincoln A., assignor.)						
Walsh, Francis A., Milwaukee, Wis. Closure for vessels .....	605,528	June 14	852	199	83	1537
Walsh, George W. (See Wheelock, Frank H., assignor.)						
Walsh, Henry. (See Marsden and Walsh.)						
Walsh, James H. (See Ryan, Thomas W., assignor.)						
Walsh, John, Elyria, Ohio. Trolley-pole .....	613,181	Oct. 25	2787	657	85	582
Walsh, John, London, England. Burner and globe .....	614,148	Nov. 15	1621	372	85	970
Walsh, John E., New York, N. Y. Portable crane .....	600,757	Mar. 15	2059	471	82	1651
Walsh, John E., New York, N. Y. Lightering vessel .....	602,888	Apr. 26	2244	510	83	471
Walsh, Joseph A., Philadelphia, Pa. Marine torpedo .....	601,604	Mar. 29	3500	798	82	1969
Walsh, Michael, New York, N. Y. Race-track for dogs .....	611,876	Oct. 4	491	119	85	98
Walsh, Ralph, Washington, D. C. Vaccine-carrier and case .....	616,042	Dec. 13	1500	351	85	1719
Walsh, Richard, Philadelphia, Pa. Gasket packing .....	608,939	Aug. 9	1422	335	84	948
Walsh, Walter V., Pittsburg, Pa. Sash-fastener .....	606,948	July 5	543	120	84	108
Walstrom, Frank V., and J. Erickson, Chicago, Ill. Electrically-actuated lock for bicycle-racks .....	597,891	Jan. 25	2470	577	82	529
Walstrom, Frank V., and J. Erickson, Chicago, Ill. Bicycle-lock .....	608,163	July 26	3010	647	84	638
Walter Automatic Air Coupler Company. (See Pugh, William J., assignor.)						
Walter, Charles V., New York, N. Y. Fastener .....	608,495	Aug. 2	576	129	84	770
Walter, Georg, Strasburg, Germany. Secondary battery .....	608,015	July 26	2771	589	84	592
Walter, George A., Prescott, Wis. Eccentric wagon-brake .....	614,637	Nov. 22	2529	576	85	1151
Walter, Henry E., London, England. Non-slipping pneumatic tire .....	616,168	Dec. 20	1769	410	85	1789
Walter, Henry G., Scranton, assignor to Wyoming Cash Register Company, Wilkes-Barré, Pa. Cash-register .....	599,817	Mar. 1	267	60 61 62	82	1263
Walter, John P., Edgerton, Ohio. Tool-handle .....	601,690	Apr. 5	120	23	83	26
Walter, Lawson C. (See Pulhemus and Walter.)						
Walter, Sebastian, assignor to Kieckhefer Brothers Company, Milwaukee, Wis. Cover-locking handle for pails .....	599,082	Feb. 15	1721	409	82	965
Walter, Sebastian, assignor to Kieckhefer Brothers Company, Milwaukee, Wis. Wringer attachment for washtubs .....	614,678	Nov. 22	2606	591	85	1164
Walters, Charles. (See Neugroschl and Walters.)						
Walters, James H., Mooresville, N. C., and W. H. Walters, Waynesborough, Ga. Ginsaw-filing machine .....	603,302	May 3	96	24	83	620
Walters, James P. (See Westervelt and Walters.)						
Walters, William H. (See Walters, James H. and W. H.)						
Walters, William J., and W. W. Rohrer, Guthrie, Okla. Ter. Curtain-fixture .....	603,615	May 3	688	154	83	734
Walther, Charles F. (See Tyler and Pries, assignors.)						
Walton, Alfred. (See Walton, Frank and A.)						
Walton, Edwin, Weston, assignor of one-half to W. W. McLeod, Wellesley, Mass. Knitting-machine .....	601,067	Mar. 22	2571	586 587	82	1761
Walton, Ernest, and F. Macke, assignors of one-third to W. M. Dillon, Sterling, Ill. Nail-making machine .....	604,553	May 24	2455	558	83	1141



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Walton, Frank and A., Paterson, N. J. Folding bicycle-rack.....	598,298	Feb. 1	408	96	82	679
Walton, Frederick H., Orono, Me. Rotary lawn-rake.....	604,812	May 31	2901	663	83	1247
Walton, John E., Raleigh, N. C. Hame and trace connector.....	614,908	Nov. 29	3023	664	85	1261
Walton, Roscoe. (See Johnston, William F., assignor.)				692		
Wambsganss, Albert, Frankfort, assignor to Sholto-Douglas, Berlin, Germany. Device for regulating position of height of rails over joint-sleepers.....	606,697	July 5	111	24	84	24
Wampler, Charles C., and B. D. Bloom, Valley Forge, Mo. Rotary engine.....	599,410	Feb. 22	2326	550	82	1101
Wanamaker, Henry W., assignor of one-half to J. R. Wilson, Baltimore, Md. Brick-kiln.....	607,973	July 26	2673	571	84	570
Wandel, Frank, Philadelphia, Pa. Grate.....	616,595	Dec. 27	2561	593	85	1963
Wands, John C., St. Louis, Mo. Air-brake controller.....	604,244	May 17	1867	418	83	1012
Wankerl, Michael. (See Cummings and Wankerl.)				419		
Wanless, William J., Bay City, Mich. Screw-propeller.....	612,598	Oct. 18	1772	418	85	363
Wantling, Isaac, and J. T. Johnson, Peoria, Ill. Coal cutting or mining machine.....	608,240	Aug. 2	123	30	84	678
Wappler, Fredrick H. (See Wappler, Reinhold H. and F. H.)						
Wappler, Reinhold H., New York, N. Y. Electromedical apparatus.....	609,639	Aug. 23	2763	644	84	1238
Wappler, Reinhold H. and F. H., New York, N. Y. Rheostat for electric lamps.....	604,949	May 31	3131	720	83	1292
Ward, Almon G., Warren, Ohio. Instantaneous water-heater.....	597,130	Jan. 11	1183	278	82	246
Ward, Charles C., Pendleton, Ky. Pliers.....	611,537	Sept. 27	2561	591	84	1985
Ward, Daniel T., Jr., Whitesville, Ky. Fruit-gatherer.....	597,340	Jan. 11	1524	356	82	313
Ward, David R., Newark, N. J., assignor of two-thirds to M. F. Elliot, New York, N. Y. Automatic stoker for furnaces.....	607,533	July 19	1848	384	84	397
Ward, Dell, Toledo, Ohio. Hydrocarbon-burner.....	609,855	Aug. 30	3112	385		
Ward, Edward L. C. (See Dickinson, James Q., assignor.)				727	84	1320
Ward, Ezra H., assignor to J. W. Keogh, Chicago, Ill. Shredding-knife.....	604,813	May 31	2904	664	83	1247
Ward, George C., Fort Worth, Tex. Guitar.....	613,540	Nov. 1	582	133	85	726
Ward, John F., New York, N. Y. Conveying and hoisting apparatus.....	614,044	Nov. 8	1425	134		
Ward Leonard Electric Company. (See Ball, Henry P., assignor.)				327	85	911
Ward, Lewis I. (See Hines, Oliver C., assignor.)						
Ward, Marzy J., Unadilla, N. Y. Luggage-carrier for bicycles.....	599,750	Mar. 1	129	29, 30	82	1240
Ward, Raymond L. (See Kuser, Fred, assignor.)						
Ward, Willard P., New York, N. Y. Safety appliance for elevators.....	612,599	Oct. 18	1773	419	85	363
Ward, William E., Montclair, N. J. Desk-lamp.....	605,529	June 14	854	200	83	1537
Ward, William F. (See Millard, Frank B., assignor.)						
Ward, William H., Dodd City, Tex. Plow.....	604,814	May 31	2905	664	83	1247
Ward, William S., Philadelphia, Pa. Railway-tie.....	614,638	Nov. 22	2531	665	85	1151
Warden, Leonard. (See Carter, Clarence W., assignor.)				577		
Warder, Bushnell & Glessner Company. (See Bauer, William F., assignor.)						
Wardwell, Claison S., Stamford, Conn. Kite.....	598,038	Jan. 25	2722	636	82	578
Wardwell, Simon W., Jr., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Mechanism for winding thread.....	598,587	Feb. 8	890	213	82	789
Wardwell, Simon W., Jr., Boston, Mass., assignor to Universal Winding Company, Portland, Me. Cop.....	607,202	July 12	1058	229	84	221
Ware, Henry, Springville, N. Y. Railway-tie-plate surfacer and gage.....	606,851	July 5	405	86	84	81
Ware, Henry P. (See Stender, Herman, assignor.)						
Ware, William R. (See Penrose, George A. and T. F., assignors.)						
Wareham, Percy, Brooklyn, Mich. Revolver.....	612,071	Oct. 11	856	208	85	178
Waring, George E., Jr., Newport, R. I., assignor to Drainage Construction Company, Boston, Mass. Sewer construction.....	601,742	Apr. 5	236	46	83	46
Warman, John I., Chicago, Ill. Velocipede.....	605,155	June 7	178	44, 45	83	1385
Warne, Frank H. (See Warne, Perry, assignor.)						
Warne, Perry, assignor to F. H. Warne, Morenci, Mich. Wire-stretcher.....	608,536	Aug. 2	647	146	84	783
Warner, Alfred D., et al. (See Parsons, John H., assignor.)						
Warner, Ben F. (See Hayes, Frederick B., assignor.)						
Warner, Charles, Jr., et al. (See Parsons, John H., assignor.)						
Warner, Charles E., Waverly, Kans. Wire fence.....	607,203	July 12	1059	229	84	221
Warner, Charles E., Waverly, Kans. Wire fence.....	607,204	July 12	1061	230	84	221
Warner, Daniel, Bronson, Mich., assignor of one-half to J. W. Stone, New York, N. Y. Lifting-jack.....	612,371	Oct. 11	1379	334	85	276
Warner, Daniel, Bronson, Mich., assignor of one-half to J. W. Stone, New York, N. Y. Axle-nut wrench.....	613,613	Nov. 1	703	162	85	750
Warner Elevator Manufacturing Company. (See Davis, Jenkin P., assignor.)						
Warner, Ernest P., and H. H. Wait, assignors to Western Electric Company, Chicago, Ill. Electric-arc lamp.....	599,818	Mar. 1	277	62	82	1265
Warner, George W., Freeport, Ill. Door-check.....	614,909	Nov. 29	3024	692	85	1261
Warner, Henry H., Tacoma, Wash. Car-coupling.....	611,025	Sept. 20	1585	363	84	1782
Warner, Henry H., Tacoma, Wash. Ballast-unloader.....	611,877	Oct. 4	492	119	85	99
Warner, Lewis E., Northampton, Mass. Shaft-adjusting device.....	603,353	May 3	187	43	83	638
Warner, Oscar L., Naugatuck, Conn. Metallic hub-casing.....	610,112	Aug. 30	3555	824	84	1408
Warner, Richard, and E. E. Howe, Waukesha, Wis. Baking-tin.....	616,510	Dec. 27	2425	561	85	1939
Warner, Richard C. (See Johnson, Frank M., assignor.)						
Warner, Sarah E. (See Hoskins, Thomas D., assignor.)						
Warner, William H., Melvern, Kans. Wire-fence-weaving machine.....	604,099	May 17	1601	360	83	961
Warnock, Frank, Elyria, Ohio. Coupling for pneumatic tires.....	605,156	June 7	181	45	83	1385
Warnock, George F., Jacksonville, Fla. Combined square and bevel.....	607,101	July 12	882	190	84	189
Warnock, Robert S. (See Harrington and Warnock.)						
Warren, Alfred, et al. (See Chapman, Charles A., assignor.)						
Warren, Alpheus F., assignor of one-half to J. L. Barr, Butler, Ohio. Lubricating device for journal-boxes.....	612,447	Oct. 18	1510	363	85	315
Warren, Charles, Rough and Ready, Cal. Plumb-level.....	600,326	Mar. 8	1297	296	82	1487
Warren, Christopher C., Chunkey's Station, Miss. Cultivator attachment.....	611,463	Sept. 27	2435	560	81	1961
Warren, Edmund A., assignor of one-half to T. J. Moore, New York, N. Y. Marine propeller.....	615,006	Nov. 29	3219	740	85	1302
Warren, Edward K., Three Oaks, Mich. Stiffening tape or fabric.....	611,298	Sept. 27	2115	487	84	1902
Warren, Edward K., Three Oaks, Mich. Dress-waist.....	616,644	Dec. 27	2667	618	85	1984
Warren, Edward K., and J. Holden, Three Oaks, Mich. Stiffening cord or tape.....	616,645	Dec. 27	2669	619	85	1984
Warren, Frank W., San Francisco, Cal. Pencil-splicer.....	605,440	June 7	723	163	83	1492
Warren, George L., and E. J. Tiesing, New Haven, Conn. Parallel-ruler.....	600,758	Mar. 15	2059	471	82	1651
Warren, Herbert C., Hartford, Conn. Machine for generating gear-teeth.....	605,982	June 21	1743	400	83	1721
Warren, Herbert C., Hartford, Conn. Gear-tooth-generating machine.....	605,983	June 21	1747	401	83	1721
Warren, Horace G., Earlville, assignor to himself, and J. E. Porter, Ottawa, Ill. Hand-drill.....	614,910	Nov. 29	3027	692	85	1262



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Warren, Jabez T., Buffalo, N. Y. Hot-air furnace .....	601,822	Apr. 5	379	79, 80	83	71
Warren, James G. (See Weeks, John W., assignor.)						
Warren, John D., Chicago, Ill. Hardware-drawer .....	603,583	May 3	611	136	83	720
Warren, Stephen G., Attica, N. Y. Top-spinner .....	615,930	Dec. 13	1290	300	85	1676
Warren Webster & Company. (See Freer, William G., assignor.)						
Warren Webster & Company. (See Leitch, Meredith, assignor.)						
Warren Webster & Company. (See Serrell and Leitch, assignors.)						
Warren, William W., Dowagiac, Mich. Implement for forming ends for eaves-troughs ..	597,924	Jan. 25	2524	590	82	539
Warrick, James W., Williamsport, Pa. Corn harvester and husker .....	597,041	Jan. 11	1018	240	82	214
Warrington, Jesse, assignor of one-half to Nordyke & Marmon Company, Indianapolis, Ind. Bearing for vertical shafts .....	600,816	Mar. 15	2147	491	82	1667
Warry, James J., Birkenhead, England. Velocipede-tire .....	600,187	Mar. 8	1070	242	82	1443
Warter, Antoine, Newark, assignor of one-half to W. L. Glorieux, Irvington, N. J. Pneumatic elevating device for liquids .....	605,212	June 7	285	66	83	1404
Warth, Apollonia. (See Warth, Henry, assignor.)						
Warth, Henry, assignor to A. Warth, New York, N. Y. Cloth-cutting machine .....	616,216	Dec. 20	1854	428	85	1805
Warth, Nathaniel G., Indianapolis, Ind. Electric cable .....	603,069	Apr. 26	2502	582	83	530
Wartman, Edward H., Kingston, Canada. Fruit-grader .....	612,759	Oct. 18	2073	491	85	421
Wartmann, Otto, London, England. Cigar-machine .....	604,445	May 24	2245	504	83	1105
Wartzenluft, Daniel L., Kutztown, Pa. Burglar-alarm .....	609,640	Aug. 23	2765	644	84	1238
Warwick Cycle Syndicate. (See Harris and Blackmore, assignors.)						
Wasbers, Henry. (See Wolf, Charles H., assignor.)						
Wascinski, Alexander, Jersey City, N. J., assignor to E. Hahner, C. Franck, and J. Veith, New York, N. Y. Violin or mandolin cithern .....	605,764	June 14	1276	295	83	1616
Washburn, George A., assignor to Ohio Storage Battery Company, Cleveland, Ohio. Storage battery .....	602,176	Apr. 12	1026	225	83	207
Washburn, Helum J., and E. L. Cudaback, assignor of one-half to C. G. Cudaback and W. G. Washburn, Ransomville, N. Y. Spring-tooth harrow .....	611,299	Sept. 27	2116	487 488	84	1902
Washburn, John R., Valley Junction, Wis. Sliding-door fastener .....	607,495	July 19	1787	371	84	386
Washburn & Moen Manufacturing Company. (See Brittan, Henry M., assignor.)						
Washburn & Moen Manufacturing Company. (See Cook, Leroy, assignor.)						
Washburn, Theodore W., assignor to G. Waite, Baldwinsville, Mass. Locking device for convertible chairs .....	600,902	Mar. 22	2300	524	82	1709
Washburn, William G., <i>et al.</i> (See Washburn and Cudaback, assignors.)						
Washburn, William G., Thomaston, Me. Garment-supporter .....	604,134	May 17	1667	374	83	973
Washburne, James V., Waterbury, Conn. Glove-fastener .....	603,303	May 3	99	24	83	620
Washburne, James V., Waterbury, Conn. Badge .....	607,307	July 12	1261	268	84	260
Washburne, James V., Waterbury, Conn. Garment-fastening device .....	615,510	Dec. 6	555	127	85	1519
Washburne, William A. (See Gaynor and Washburne.)						
Washington Dishwasher Company. (See Leonard and Hescox, assignors.)						
Washington, George, New York, N. Y., assignor to George Washington Lighting Company, Jersey, City, N. J. Hydrocarbon incandescence lamp .....	607,974	July 26	2675	571	84	571
Water Overflow Preventive Company. (See Toback, Leopold, assignor.)						
Waterbury Clock Company. (See Bannatyne, Archibald, assignor.)						
Waterbury Farrel Foundry and Machine Company. (See Rowbottom, George, assignor.)						
Waterbury, George N. (See Richardson, Thornton L., assignor.)						
Waterbury Machine Company. (See Lamb, George B., assignor.)						
Waterbury Manufacturing Company. (See Perkins, Walter H., assignor.)						
Waterer, Hosea, Philadelphia, Pa. Jardinière .....	603,492	May 3	464	103	83	690
Waterhouse, Addison G., Hartford, Conn. Automatic heater and sterilizer .....	615,932	Dec. 13	1298	303	85	1677
Waterhouse, Ezra P., assignor of one-half to Worcester Envelope Company, Worcester, Mass. Envelop-machine .....	615,931	Dec. 13	1291	300 301 302 303	85	1676
Waterman, Arthur A. (See Gibson, Edward L., assignor.)						
Waterman, Lewis E., Brooklyn, N. Y. Fountain-pen .....	604,690	May 24	2687	615	83	1187
Waterman, Lewis E., New York, N. Y. Fountain-pen .....	607,397	July 12	1420	304	84	291
Waterman, Lewis E., New York, N. Y. Fountain-pen .....	607,398	July 12	1424	304	84	292
Waterman, Lewis E., New York, N. Y. Fountain-pen .....	607,399	July 12	1425	304	84	292
Waterman, Lewis E., New York, N. Y. Fountain-pen .....	607,400	July 12	1426	304 305	84	293
Waterman, Lewis E., New York, N. Y. Fountain-pen .....	607,401	July 12	1431	305	84	293
Waterman, Lewis E., assignor to Deere & Mansur Company, Moline, Ill. Check-row corn-planter .....	603,584	May 3	612	136 137	83	720
Waterman, Lewis E., Moline, assignor to Rock Island Plow Company, Rock Island, Ill. Sulky-plow .....	609,311	Aug. 16	2149	509	84	1103
Waters, Cornelius E., Muskegon, Mich. Holdback-fastener .....	600,103	Mar. 1	875	201	82	1385
Waters, George A., Troy, N. Y. Chain-guard .....	610,313	Sept. 6	330	71	84	1505
Waters, George H., Jersey City, N. J. Valve-gear for steering apparatus .....	600,698	Mar. 15	1962	447	82	1632
Waters, James D. (See Murphy and Waters.)						
Waters, James K. (See Weddell and Waters.)						
Waters, John C. and R. C., Romley, Colo. Concentrate-receiver .....	614,355	Nov. 15	2014	465	85	1043
Waters, Richard C. (See Waters, John C. and R. C.)						
Waters, Virgil W. (See Jenkins, Warner H., assignor.)						
Waterson, Alfred H. (See Gleason, Jacoboioce, and Waterson.)						
Waterstraat, William T., Chicago, Ill. Window .....	614,149	Nov. 15	1622	372	85	970
Watkeys, Henry, Lafayette, Ind. Safety spring-hanger .....	597,868	Jan. 25	2437	567 568	82	523
Watkins, Alfred, Des Moines, Iowa. Rotary engine .....	599,751	Mar. 1	130	30	82	1241
Watkins, Charles S., Bloomington, Ill. Rein-clasp .....	608,940	Aug. 9	1423	335	84	949
Watkins, George H., Ridgeway, assignor of one-third to H. C. Clanton, Spencer, Va. Weighing-scoop .....	607,578	July 19	1935	401	84	412
Watkins, John, Hereford, England. Barrel-tap .....	608,087	July 26	2887	618	84	615
Watkins, Leigh, Denver, Colo. Wagon steering and driving mechanism .....	607,308	July 12	1262	269	84	260
Watkins, William, Reedsville, W. Va. Hoe or mattock .....	610,570	Sept. 13	797	182	84	1608
Watkinson, Frederick. (See Sydenham, Watkinson, and Sydenham.)						
Watrous, Earl G., Lansingburg, assignor to D. J. Whelan, Troy, N. Y. Gutter-former ..	599,028	Feb. 15	1645	389	82	950
Watrous, Earl G., Lansingburg, and H. A. Riley, Hoosick Falls; said Watrous assignor to D. J. Whelan, Troy, N. Y. Gutter-former .....	615,933	Dec. 13	1299	303	85	1677
Watrous, Henry G., Wallingford, Conn. Auger .....	606,319	June 28	2395	553	83	1865
Watrous, John H., Ridgeway, Ohio. Single-delivery match-safe .....	613,743	Nov. 8	936	215	85	815
Watrous, Vanderbilt, assignor to Miller Lock Company, Philadelphia, Pa. Latch-lock ..	597,341	Jan. 11	1525	356	82	313
Watson, Annie L., <i>et al.</i> (See Watson, John W. and G. L., assignors.)						
Watson Automatic Seat Post Company. (See Lord, George W., assignor.)						
Watson, Charles W., Wooster, Ark. Hoe .....	614,356	Nov. 15	2017	465	85	1043



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Watson, Elizabeth S., <i>et al.</i> (See Watson, John W. and G. L., assignors.)						
Watson, George, assignor to Horsfall Furnace Syndicate, Limited, Leeds, England. Furnace	614,150	Nov. 15	1623	372	85	970
Watson, George H., Chicago, Ill. Downdraft boiler-furnace	613,614	Nov. 1	704	163	85	750
Watson, George H., assignor of one-half to E. J. Noble, Chicago, Ill. Furnace-boiler	614,679	Nov. 22	2607	591 592	85	1164
Watson, George L. (See Watson, John W. and G. L.)						
Watson, George W. (See Bean and Watson.)						
Watson, Guy M., New Haven, Conn. Slack-adjuster for brake-gear	601,918	Apr. 5	566	117	83	107
Watson, Henry B., London, England. Appliance for supporting books, papers, or other articles	607,496	July 19	1788	372	84	386
Watson, Henry B. and J. S., Newcastle-upon-Tyne, England. Feed-water filter for steam-boilers	611,667	Oct. 4	134	33 763	85	29
Watson, Henry F., assignor to himself and W. J. Chaninel, Philadelphia, Pa. Tricycle	615,054	Nov. 29	3320	764	85	1319
Watson, Henry P., <i>et al.</i> (See Griffin, Russell B., assignor.)						
Watson, James, Nottingham, England. Wheel for vehicles	616,376	Dec. 20	2162	503	85	1867
Watson, James A., Decatur, Tex. Wire-fence machine	601,187	Mar. 22	2768	635	82	1798
Watson, John S. (See Watson, Henry B. and J. S.)						
Watson, John W. and G. L., South Chicago, Ill., assignors to E. S. and A. L. Watson, Pittsburg, Pa. Cornice-pole	601,453	Mar. 29	3265	738	82	1920
Watson, Louis T., <i>et al.</i> (See Griffin, Russell B., assignor.)						
Watson, Mattie A., Chicago, Ill. Abdominal supporter	612,072	Oct. 11	858	208	85	178
Watson, Mattie A., Chicago, Ill. Abdominal bandage	612,073	Oct. 11	860	209	85	178
Watson & McDaniel Company. (See Jennings, William C., assignor.)						
Watson & McDaniel Company. (See Riggan, Henry H., assignor.)						
Watson, Nelson M., Detroit, Mich. Coin-controlled medical battery	608,496	Aug. 2	578	130	84	770
Watson & Newell Company. (See Swift, Horace E., assignor.)						
Watson, Peter B., assignor to R. M. Robinson, Philadelphia, Pa. Electromagnetic engine	611,850	Oct. 4	454	108 109	85	91
Watson, Robert S., Bay City, Mich. Water-closet	612,448	Oct. 18	1511	363	85	315
Watson, Seth F. (See Watson, William B., assignor.)						
Watson, Thomas A., Bentonville, Ark. Weather-strip for doors	610,113	Aug. 30	3556	825	84	1408
Watson, William B., assignor of one-half to S. F. Watson, Richmond, Ind. Tree-box	601,691	Apr. 5	121	24 295	83	26
Watson, William D., and T. Humphreys, Rochdale, England; said Humphreys assignor to said Watson. Apparatus for supplying or measuring currents of electricity	605,765	June 14	1278	296 297	83	1616
Watson, William J. R., Antwerp, Belgium. Cycle-wheel	603,160	Apr. 26	2717	618	83	562
Watson, William T., Victoria, Canada. Car-fender	610,779	Sept. 13	1149	264	84	1681
Watt, Charles W. (See Henigan, John M., assignor.)						
Watt, James H., Barnesville, Ohio. Locking mechanism for mining-car doors	601,538	Mar. 29	3405	772	82	1951
Watt, Lewis R. (See Gracey and Watt.)						
Watt Mining Car Wheel Company. (See Maxwell, Anderson, assignor.)						
Watt Mining Car Wheel Company. (See Watt, Stewart, assignor.)						
Watt, Robert W., Hamburg, Ark. Drill and seed-planter	609,714	Aug. 23	2881	673	84	1261
Watt, Stewart, assignor to Watt Mining Car Wheel Company, Barnesville, Ohio. Self-oiling car-wheel	612,689	Oct. 18	1947	461	85	397
Watters, John H., W. R. Howdon, and W. A. Jacobs, Anniston, Ala. Track-sanding apparatus	614,413	Nov. 15	2122	488	85	1063
Watterworth, J. A., <i>et al.</i> (See Miller, Gustof J., assignor.)						
Wattles, Joseph W., Canton, Mass. Doffer-guard and stopper for lubricating-tubes for spindles	604,446	May 24	2247	504	83	1105
Wattles, Luther H., assignor of three-fourths to Wattles Steam and Gas Engine Company, Providence, R. I., and B. C. Davis, Brooklyn, N. Y. Motorcycle	597,042	Jan. 11	1020	241	82	215
Wattles Steam and Gas Engine Company <i>et al.</i> (See Wattles, Luther H., assignor.)						
Watts, George. (See Brown, Cornelius M., assignor.)						
Watts, John T., Golden, Ill. Weather-strip	605,590	June 14	967	224	83	1558
Watts Patents Company. (See Watts, William W., assignor.)						
Watts, William W., Birmingham, assignor to Watts Patents Company, Limited, London, England. Boot-tree	610,506	Sept. 6	689	155	84	1571
Watson, Edward F., <i>et al.</i> (See Hachenberg, Louis, assignor.)						
Wauters, August, New York, N. Y. Diamond-polishing machine	616,377	Dec. 20	2163	504	85	1867
Way, Albert M., Philadelphia, Pa. Lubricator	597,157	Jan. 11	1227	288	82	255
Way, Charles A., Charlestown, N. H. Tricycle for invalids	605,530	June 14	855	200	83	1538
Way, Clark B., Shreve, Ohio. Cultivator	613,341	Nov. 1	213	48	85	657
Way, Edward J., <i>et al.</i> (See Blackmore, Sidney P., assignor.)						
Wayland, James, Newark, N. J. Rail-joint	603,779	May 10	963	215	83	804
Waymack, Martha J., Manchester, Va. Hat-pin	609,061	Aug. 16	1669	397	84	1011
Wayne Works. (See Schultz, Walter W., assignor.)						
Weastell, John H. (See Doe, Walter S., assignor.)						
Weatherhead, Edward H., Cleveland, Ohio. Hydraulic air-compressing pump	603,242	Apr. 26	2854	651	83	587
Weatherhead, Edward M., <i>et al.</i> (See Kinney, Israel, assignor.)						
Weatherly, John R., Sumter, S. C. Stalk-cutter	610,114	Aug. 30	3557	825	84	1408
Weathers, James, assignor of one-half to J. A. Robbins, Indianapolis, Ind. Combined wire-stretcher and lifting-jack	599,465	Feb. 22	2443	575	82	1123
Weatherston, Lyman A., and J. E. Rankin, Ogdensburg, N. Y. Extension-ladder	596,766	Jan. 4	554	127	82	106
Weaver, Albert S., Hamilton, Canada. Bicycle	605,365	June 7	599	133	83	1465
Weaver, Edward H., Crafton, assignor to Oliver Wire Company, Pittsburg, Pa. Reel	615,657	Dec. 6	817	189	85	1574
Weaver, George L., <i>et al.</i> (See Weaver, William R., assignor.)						
Weaver, George W., Rochester, N. Y. Card-box	599,484	Feb. 22	2477	582	82	1129
Weaver, Harry B. (See Kelly and Weaver.)						
Weaver, Harry D., <i>et al.</i> (See Weaver, William R., assignor.)						
Weaver, Henry M. (See Hutches, Benjamin F., Jr., assignor.)						
Weaver, Henry M., Mansfield, Ohio. Whist-table	609,377	Aug. 16	2248	531 532	84	1122
Weaver, Hiram, and F. M. Scranton, Nebo, Ill. Cutting apparatus for harvesters	614,639	Nov. 22	2532	577	85	1151
Weaver, Ira A., Oskaloosa, assignor of one-fourth to R. M. Boyer, Tracy, Iowa. Well-drilling machine	608,810	Aug. 9	1169	273 274	84	901
Weaver, J. E. (See Campbell, John D., assignor.)						
Weaver Jacquard and Electric Shuttle Company. (See Weaver, William, assignor.)						
Weaver, John R., assignor of one-half to M. St. Clair, Commerce, Tex. Sewing-machine brake	601,692	Apr. 5	122	24	83	26
Weaver, Lafayette, Jr., Bridgeton, N. J. Bed-rail clamp	598,454	Feb. 1	659	162	82	728
Weaver, Levi W., Elnora, Ind. Pocket shoe-lacking outfit	603,982	May 10	1325	304	83	874
Weaver, William, assignor to Weaver Jacquard and Electric Shuttle Company, Norwalk, Conn. Loom	598,187	Feb. 1	202	47	82	641



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Weaver, William R., assignor of two-thirds to G. L. and H. D. Weaver, Covington, Ky., and J. C. Brown, Franklin, Ohio. Mechanism for holding trolleys to their wires.....	613,744	Nov. 8	988	215	85	815
Webb, Edward, <i>et al.</i> (See Wilson, George T., assignor.)						
Webb, Emmet E., Cadiz, Ohio. Carpet-fastener.....	611,158	Sept. 20	1833	423	84	1829
Webb, Frederick L., Attica, Ind. Combined fence-post and brace therefor.....	614,151	Nov. 15	1624	373	85	970
Webb, George B., Westfield, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine.....	599,428	Feb. 22	2364	556 557 558	82	1109
Webb, George B., Westfield, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine.....	599,429	Feb. 22	2377	558 559	82	1112
Webb, George B., Westfield, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine.....	616,511	Dec. 27	2426	561 562	85	1939
Webb, George B., assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writing machine.....	605,264	June 7	397	90	83	1427
Webb, George H., Pawtucket, R. I. Lathe for turning metal.....	599,275	Feb. 15	2040	483 484	82	1023
Webb, George S., Aurora, Ill. Saddle for velocipedes.....	597,342	Jan. 11	1527	356	82	313
Webb, George S., Aurora, Ill. Chain adjustment for bicycles or other machines.....	609,062	Aug. 16	1670	397	84	1011
Webb, George S., Aurora, Ill. Joint for parts of machinery.....	611,159	Sept. 20	1835	423	84	1830
Webb, George W., Ilion, N. Y. Magazine belt-fastener pliers.....	612,074	Oct. 11	862	209	85	178
Webb, James N., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Air-regulating device for atmospheric gas-burners.....	613,871	Nov. 8	1160	266	85	858
Webb, James N., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Air-regulating device for atmospheric gas-burners.....	616,752	Dec. 27	2872	665	85	2024
Webb, James N., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Chimney-holder for atmospheric gas-burners.....	616,753	Dec. 27	2873	666	85	2025
Webb, Jean F., St. Louis, Mo. Floating caisson.....	597,597	Jan. 18	1967	457 458	82	418
Webb, John F., assignor to Ore Atomic Reduction and Gold Extraction Company, Limited, London, England. Roller crushing-mill.....	615,375	Dec. 6	295	68	85	1470
Webb, Martin V. (See Webb and Johnson, assignors.)						
Webb, Richard, and E. E. Schoening, St. Louis, Mo. Sliding adjustable window-screen.....	597,627	Jan. 18	2012	469	82	426
Webb, Richard H., Murphy, Tex. Corn-planter.....	612,988	Oct. 25	2404	573	85	504
Webb, Samuel D., and I. L. Johnson; said Johnson assignor, by mesne assignments, of one-half to M. V. Webb, Washington, D. C. Tobacco-pipe.....	609,641	Aug. 23	2766	644	84	1238
Webb, Samuel F., Pond Creek, Okla. Ter. Animal-poke.....	598,352	Feb. 1	484	116	82	693
Webb, Samuel J., Minden, La. Press.....	615,769	Dec. 13	1014	236	85	1624
Webb, Smith N., Detroit, Mich. Knife or type holding block for indexing purposes.....	612,372	Oct. 11	1380	334	85	277
Webb, William K. (See Shotts and Webb.)						
Webber, Alexander, Winthrop, Mass. Washing-machine.....	599,029	Feb. 15	1647	389	82	950
Webber, Charles F., Boston, Mass. Bicycle-saddle adjusting device and spring.....	607,148	July 12	965	209	84	203
Webber, Joseph A., Vancouver, Wash. Combined cultivator and harrow.....	601,743	Apr. 5	238	47	83	46
Webber, Louise E., Parkersburg, W. Va. Portable scaffold.....	610,934	Sept. 20	1420	326 327	84	1751
Webendorfer, Rudolf B., Jersey City, N. J. Lubricating device.....	612,075	Oct. 11	864	210	85	179
Weber, Aaron M., Oshkosh, Wis. Edge-protector for dress-skirts.....	610,780	Sept. 13	1151	264	84	1681
Weber, Charles, Pittsburg, Pa. Angle-former.....	600,699	Mar. 15	1964	448	82	1632
Weber, Charles, Pittsburg, Pa. Roll for bending structural iron.....	600,700	Mar. 15	1965	448	82	1632
Weber, Charles, Pittsburg, Pa. Rolls for bending structural iron, pipe, &c.....	616,217	Dec. 20	1855	429	85	1805
Weber, Charles H., Alton, Ohio. Computing-machine.....	599,989	Mar. 1	570	131 132	82	1321
Weber, Charles S., San José, Cal. Stringing pianos.....	606,179	June 21	2110	485	83	1789
Weber, Edgar, assignor to P. Mersch, Paris, France. Electric-arc lamp.....	602,380	Apr. 12	1364	305	83	275
Weber, Frederick J., assignor to Steel Storage and Elevator Construction Company, Connersville, Ind. Pneumatic grain-tank-emptying device.....	615,328	Dec. 6	185	46, 47	85	1449
Weber, George A., New York, N. Y. Rail-joint.....	605,265	June 7	402	90	83	1428
Weber, George A., New York, N. Y. Insulated rail-joint.....	608,088	July 26	2888	618	84	615
Weber, George A., New York, N. Y. Bond for rails.....	608,736	Aug. 9	1017	233	84	874
Weber, George A., New York, N. Y. Rail-joint.....	614,911	Nov. 29	3028	693	85	1262
Weber, Henry. (See Weber, Peter and H.)						
Weber, Herman A., Pittsburg, Pa. Ice-cream mold and disher.....	599,157	Feb. 15	1853	439	82	987
Weber, John, <i>et al.</i> (See Goolman, Fred R., assignor.)						
Weber, John, and M. Thurner, Springfield, Ohio. Portable farm-stove.....	604,342	May 17	2059	461	83	1049
Weber, Leonard, Roslyn, Wash. Combined sleigh and boat.....	606,905	July 5	484	104 105	84	96
Weber, Peter and H., Milwaukee, Wis. Device for inserting or removing inner tubes of pneumatic tires.....	598,310	Feb. 1	425	101	82	682
Weber, Peter M., Munhall, assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Rolls.....	606,608	June 28	2920	677	83	1967
Weber, Theodore A., assignor to F. Hasbrouck, New York, N. Y. Labeling-machine.....	604,182	May 17	1759	396	83	992
Weber, Valentin, Princeville, Ill. Bicycle-gearing.....	607,149	July 12	967	209	84	204
Weber, William F., New York, N. Y. Fire-escape apparatus.....	601,029	Mar. 22	2512	571	82	1749
Webre, Dorifor, and S. Haydel, Vacherie, La. Cane feeder and carrier.....	611,878	Oct. 4	495	120	85	99
Webster, Cary B., Roseboom, N. Y. Screw-holding attachment for screw-drivers.....	601,188	Mar. 22	2770	635	82	1799
Webster, Charles B., Amenia, N. D. Cultivator and planter.....	598,039	Jan. 25	2723	636	82	578
Webster, Christopher, assignor to Gorham Manufacturing Company, Providence, R. I. Top for flasks or similar articles.....	613,850	Nov. 8	1115	254	85	849
Webster, Edward C., Shoreham, Vt. Ratchet-wrench.....	597,043	Jan. 11	1024	242	82	215
Webster, Edward H., Rutland, Vt. Bicycle-stand.....	598,040	Jan. 25	2725	636	82	578
Webster, Ernest S., and W. H. Hoegge, Los Angeles, Cal. Adjustable holder and tilter for cans, bottles, or other receptacles.....	600,464	Mar. 8	1536	353	82	1531
Webster, John M., assignor to M. S. Goldsmith, Cincinnati, Ohio. Bicycle-frame.....	611,399	Sept. 27	2316	534	84	1939
Webster, Le Roy C., U. S. Navy. Bottle-stoppering device.....	603,304	May 3	100	24	83	621
Webster, R. Harry, <i>et al.</i> (See Gorrell, William R., assignor.)						
Webster, Richard H. (See Gorrell, William R., assignor.)						
Webster, Thomas, and A. E. Bennett, Coventry, England. Profiling-machine.....	611,300	Sept. 27	2118	488	84	1902
Webster, William G., Grand River, Ohio. Non-refillable bottle.....	605,591	June 14	969	224	83	1559
Webster, William J., Oakdale, Pa. Hoisting apparatus.....	596,836	Jan. 4	669	154	82	180
Webster, William R., Jr., Bridgeport, Conn. Mechanism for handling molten metal.....	600,536	Mar. 15	1737	397	82	1589
Weck, Johann, Oeflingen, Germany. Sterilizing apparatus.....	609,856	Aug. 30	3114	727 728	84	1320
Weddel, John W., Oregon, Ill. Convertible pump-top.....	611,301	Sept. 27	2119	489	84	1903
Weddel, John W., H. Jewett, W. L. Taylor, and D. A. Bellis, Oregon, Ill. Motor for operating pumps.....	609,565	Aug. 23	2597	607	84	1206
Weddell, Charles W., and J. K. Waters, Thurmont, Md. Convertible vehicle and rocker.....	606,494	June 23	2709	624	83	1927
Wedge, Uteley. (See Engle and Wedge.)						
Weed, Alfred, Anderson, Ind. Peep-sight for firearms.....	600,104	Mar. 1	876	201	82	1385



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Weed, Alfred, Anderson, Ind. File-cutting machine.....	600,817	Mar. 15	2149	491	82	1667
Weed, B. F. (See Bélanger, Victor, assignor.)						
Weed, Dewitt C., and F. Atkin, assignors of one-third to S. M. Smart, Vickery, Ohio. Cultivator-plow.....	606,609	June 28	2920	677	83	1967
Weed, Edward B., assignor to A. I. Root Company, Medina, Ohio. Machine for making artificial honeycomb-foundations.....	598,060	Jan. 25	2761	644	82	586
Weed, Edward B., assignor to A. I. Root Company, Medina, Ohio. Machine for papering and piling artificial honeycomb-foundations.....	610,252	Sept. 6	200	45	84	1481
Weed, Elisha L., assignor to E. G. Fleming, Ellensburg, Wash. Apparatus for recovering fine gold.....	599,819	Mar. 1	279	63	82	1266
Weed, Elmer E., <i>et al.</i> (See Durham and Devine, assignors.)						
Weed, Elmer E., <i>et al.</i> (See Reed, Roger E., assignor.)						
Weeden, George E., assignor of one-half to S. Arthur, Chicago, Ill. Animal-trap.....	613,916	Nov. 8	1223	279	85	870
Weegmann, Frederick. (See Hammond and Weegmann.)						
Weeks, Charles D. (See Weeks, Frederick H. and C. D.)						
Weeks, Frederick H. and C. D., Akron, Ohio. Pottery-molding machine.....	616,378	Dec. 20	2165	504 505	85	1867
Weeks, George H., New York, N. Y. Spraying device for carbureters.....	603,933	May 10	1254	285	83	860
Weeks, Henry J., Santa Barbara, Cal. Index-portfolio.....	601,605	Mar. 29	3503	798 799	82	1969
Weeks, John, assignor of three-fourths to J. H. Morch, Brooklyn, N. Y. Fountain-pen.....	605,035	May 31	3274	752	83	1319
Weeks, John W., assignor to J. G. Warren, Providence, R. I. Fluid-pressure regulator.....	597,250	Jan. 11	1372	321	82	282
Weeks, Nelson, New York, N. Y. Cluster-fixture for electric incandescent lamps.....	601,108	Mar. 22	2634	601	82	1774
Weeks, Parrish C., assignor to L. L. Ahlborn, Kansas City, Kans. Window-shade fixture.....	611,345	Sept. 27	2197	507	84	1917
Weeks, Pauline Young. (See Young, Pauline.)						
Weems, C. L., <i>et al.</i> (See Stanton, Henry, assignor.)						
Weeter, Jerry, Callensburg, Pa. Tongue-support.....	613,787	Nov. 8	1007	229	85	828
Wegmann-Hauser, Arnold, Enge-Zurich, Switzerland. Feed apparatus for coal-dust furnaces.....	601,539	Mar. 29	3406	772 773	82	1951
Wehr, Abbie, Bremen, Ohio. Lamp-post attachment.....	597,343	Jan. 11	1528	356	82	314
Wehr, Austin. (See Carothers and Wehr.)						
Wehrum, Henry, assignor to Lackawanna Iron and Steel Company, Scranton, Pa. Ore-roasting furnace.....	597,628	Jan. 18	2013	469 470	82	427
Wehrum, Henry, Elmhurst, assignor to Lackawanna Iron and Steel Company, Scranton, Pa. Furnace for roasting ores.....	597,629	Jan. 18	2016	470 471	82	427
Weibel, Gottlieb, Seattle, Wash. Portable fireplace.....	613,745	Nov. 8	941	216	85	816
Weichelt, Charles L., W. S. Grady, and A. Jones, Philadelphia, Pa. Machine for mercerizing yarn.....	607,150	July 12	970	210	84	204
Weichert, Herman, Jersey City, N. J. Machine for cutting dough.....	598,404	Feb. 1	565	137 138	82	710
Weidemann, Emilia. (See Weidemann, Theodore R., assignor.)						
Weidemann, Theodore R., West Hoboken, N. J. Collar and cuff.....	606,817	July 5	341	72	84	68
Weidemann, Theodore R., assignor to E. Weidemann, West Hoboken, N. J. Pocket-book.....	598,881	Feb. 8	1375	331	82	882
Weidenkaff, Wilhelm, <i>et al.</i> (See Graf, Carl, assignor.)						
Weidley, David, Furniss, Pa. Air-tight double-heater wood-stove.....	600,657	Mar. 15	1875	429	82	1615
Weiffenbach, Hermann, Munich-Schwabing, Germany. Pyrotechnic device.....	609,063	Aug. 16	1672	397	84	1011
Weigand, Frank L., assignor of one-half to J. F. Grennan, Burlington, Kans. Corn-harvester.....	612,537	Oct. 18	1656	393 394	85	342
Weigner, Adolf, Vienna, Austria-Hungary. Appliance for producing case-shot-like action of explosive projectiles.....	608,941	Aug. 9	1424	336	84	949
Weike, Samuel C., Aurora, Ind. Match-bunching machine.....	612,218	Oct. 11	1105	265	85	226
Weikman, Augustus H., Palmyra, N. J. Clamping-buckle for electric line-wires.....	601,454	Mar. 29	3267	738	82	1921
Weil, Abraham, Steinheim, Germany. Machine for manufacturing roofing-tiles.....	597,447	Jan. 18	1727	399	82	469
Weil, Abraham, Steinheim, Germany. Roofing-tile.....	602,889	Apr. 26	2245	510 511	83	471
Weil, Henry, New York, N. Y. Bottle.....	601,919	Apr. 5	567	117	83	108
Weil, Henry, New York, N. Y. Bottle.....	616,379	Dec. 20	2169	505	85	1868
Weil, Jacob, Las Animas, Colo. Face and neck protector.....	603,306	Mar. 3	104	25	83	621
Weil, Lehman, New York, N. Y. Washing-machine.....	612,182	Oct. 11	1043	250	85	214
Weil, Samuel S. (See Wiens, John P., assignor.)						
Weilage, Herman G., Crete, Nebr. Washing-machine.....	597,344	Jan. 11	1530	357	82	314
Weiland, Peter, <i>et al.</i> (See De Tamble, Henry, assignor.)						
Weilheimer, Aaron, Fresno, Cal. Spoke-socket.....	616,169	Dec. 20	1770	410	85	1789
Weills, Isaac M., Washington, assignor of one-half to A. C. Spindler, Edgewood, Pa. Device for cleaning tubular articles.....	614,191	Nov. 15	1689	388	85	982
Weills, John C. S., <i>et al.</i> (See Towers, Edmund, assignor.)						
Weimer, Alfred F., Loudonville, Ohio. Permutation whip-lock.....	611,538	Sept. 27	2563	591	84	1985
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfurt-on-the-Main, Germany. Brown sulfureted dye.....	596,559	Jan. 4	171	-----	82	35
Weingard, Frederick F., assignor of one-half to C. Hafer, Philadelphia, Pa. Musical toy.....	596,643	Jan. 4	324	70	82	64
Weinhart, Theodore, assignor of one-third to L. D. Montgomery and C. C. Cornell, Boone, Iowa. Boiler-furnace.....	598,061	Jan. 25	2763	644	82	586
Weinhold, Auguste, Louvain, Belgium. Self-oiling bearing.....	615,511	Dec. 6	556	127	85	1519
Weinstein, Abraham, College Point, N. Y. Cradle.....	598,607	Feb. 8	922	222	82	796
Weintraub-Schnorr, Naum, Geneva, Switzerland, assignor to La Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier, Lyons, France. Compound for closing punctures in pneumatic tires.....	606,751	July 5	219	-----	84	45
Weinz, Henry, Pittsburg, Pa. Cork-cutting machine.....	604,705	May 24	2722	622	83	1193
Weir Frog Company. (See Partington, Charles, assignor.)						
Weir, Hamilton, La Porte, Ind. Miter-saw guide.....	604,673	May 24	2657	609	83	1182
Weir, Hamilton, La Porte, Ind. Dust-pan.....	607,309	July 12	1265	269	84	261
Weir, James, Cathcart, Scotland. Steam-boiler.....	614,912	Nov. 29	3028	693	85	1262
Weir Plow Company. (See White, Charles E., assignor.)						
Weir, Thomas. (See Newhouse, Bettles, and Weir.)						
Weis, Andrew L., Toledo, Ohio. Combined cement-tube and distributing-brush.....	602,204	Apr. 12	1074	235	83	216
Weis, Simon. (See Lichtentag, Isaac and A., assignors.)						
Weisell, David D., assignor of one-half to A. S. Lauferty, Fort Wayne, Ind. Labeling-machine.....	597,570	Jan. 18	1920	447 448	82	408
Weishaupt, Frederick W. H., Chicago, Ill. Handle-bar for bicycles.....	611,668	Oct. 4	136	34	85	29
Weiss, Charles P., Hornellsville, N. Y. Sand-box for locomotives.....	605,803	June 14	1370	314	83	1633
Weiss, Georg, Chicago, Ill. Nut-tapping machine.....	604,447	May 24	2249	505 506	83	1106



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Weiss, Georg, Chicago, Ill. Feeding device for nut-tapping machines .....	611,302	Sept. 27	2120	{ 489 490	{ 84	1903
Weiss, George. (See Zehnder, William, assignor.)						
Weiss, Julius, Vienna, Austria-Hungary. Dental appliance .....	598,235	Feb. 1	289	65	82	657
Weiss, Julius, assignor of one-half to I. Witmark, New York, N. Y. Stud-fastener .....	612,793	Oct. 18	2141	508	85	435
Weiss, Louis T., Brooklyn, N. Y. Check-protector .....	603,416	May 3	300	67	83	657
Weiss, Martin, San Marcos, Tex. Wrench .....	603,305	May 3	103	25	83	621
Weitz, August P., assignor, by mesne assignments, to Standard Voting Machine Com- pany, Rochester, N. Y. Voting-machine .....	613,000	Oct. 25	2501	{ 595 596	{ 85	524
Weitz, Jacob H. (See Girrens and Weitz.)						
Weitz, Peter, and R. F. Berkebile, Johnstown, Pa. Milk-can lock .....	616,754	Dec. 27	2874	666	85	2025
Weitzel, Isaac N., Rochester, N. Y. Placket-fastener .....	597,131	Jan. 11	1185	278	82	247
Weitzel, John A., Redlands, Cal. Horizontal windmill .....	609,378	Aug. 16	2250	532	84	1122
Welander, Andrew J., Omaha, Nebr. Dice-box .....	602,672	Apr. 19	1883	428	83	386
Welch, Abraham T., Washington, D. C. Process of and apparatus for generating gas .....	596,560	Jan. 4	172	39	82	35
Welch, Charles K., Coventry, England. Pneumatic tire .....	612,981	Oct. 25	2473	589	85	519
Welch, Charles K., Coventry, England. Air-valve for pneumatic tires .....	613,917	Nov. 8	1224	279	85	870
Welch, Charles K., Coventry, England, assignor to Pneumatic Tyre Company, Limited, Dublin, Ireland. Valve .....	598,125	Feb. 1	90	21	82	620
Welch, George A., assignor of one-half to W. G. Daugherty, Baltimore, Md. Newspaper- vending machine .....	601,189	Mar. 22	2771	{ 635 636	{ 82	1799
Welch, Samuel, and H. A. Burkhardt, Fitzgerald, assignors to W. A. Morgan, Dodge county, Ga. Bicycle-support .....	607,779	July 19	2281	481	84	477
Weld, George A., Boston, Mass. Mallet .....	608,811	Aug. 9	1174	274	84	901
Weld Manufacturing Company. (See Hatheway, William E., assignor.)						
Welding Compound Company. (See Eberding, Henry, assignor.)						
Weldon, Leonard. (See Going, William J., assignor.)						
Welin, Ernst A. M., London, England. Quick-firing gun .....	614,414	Nov. 15	2124	{ 488 489	{ 85	1064
Weller, H. A. (See Heiser and Moyer, assignors.)						
Weller, Henry I., Columbus, Ohio. Artificial leg .....	608,812	Aug. 9	1176	{ 274 275	{ 84	902
Weller, John F., Charlestown, W. Va. Plow .....	598,455	Feb. 1	660	163	82	729
Weller, Joseph R., De Graff, Ohio. Label-holder .....	605,213	June 7	287	66	83	1405
Welles, Howard W., Poughkeepsie, N. Y. Automatic locking device for chairs .....	614,192	Nov. 15	1690	388	85	983
Wellington, Frank E. (See Fowler, Charles M., assignor.)						
Wellman, Charles H. (See Babcock, Wellman, and Seaver.)						
Wellman, Charles H. (See Wellman and Schwab.)						
Wellman, Charles H. (See Wellman, Seaver, and Wellman.)						
Wellman, Charles H., assignor of one-half to S. T. Wellman, Upland, Pa. Treating steel for castings .....	609,750	Aug. 23	2931	-----	84	1270
Wellman, Harlan P., Ashland, Ky. Electric headlight-lamp .....	608,497	Aug. 2	581	{ 130 131	{ 84	770
Wellman, Samuel T. (See Babcock, Wellman, and Seaver.)						
Wellman, Samuel T. (See Wellman, Charles H., assignor.)						
Wellman, Samuel T. and C. H., Cleveland, Ohio, and C. M. Schwab, Homestead, Pa. Manufacture of basic open-hearth steel .....	600,105	Mar. 1	878	-----	82	1386
Wellman, Samuel T., J. W. Seaver, and C. H. Wellman, assignors to Wellman-Seaver Engineering Company, Cleveland, Ohio. Hoisting, conveying, and storing apparatus .....	614,913	Nov. 29	3030	{ 693 694	{ 85	1263
Wellman-Seaver Engineering Company. (See Wellman, Seaver, and Wellman, assign- ors.)						
Wellmann, Louis P., Union, N. J. Bicycle-saddle .....	608,089	July 26	2889	618	84	616
Wellock, Laura, Delphi, Ind. Hat-displaying stand .....	607,310	July 12	1266	270	84	261
Wells, Alfred S., assignor to Novelty Manufacturing Company, Jackson, Mich. Cash- register .....	596,927	Jan. 4	816	{ 193 194	{ 82	160
Wells, Arthur W., assignor of one-half to J. E. Bishop, Boston, Mass. Tramway-switch .....	608,090	July 26	2890	619	84	616
Wells, Clarence L. (See Slattery, Jeremiah J., assignor.)						
Wells, Cora V., assignor of one-half to M. E. Haines, Baltimore, Md. Shade .....	612,794	Oct. 18	2141	508	85	435
Wells, Edward J., assignor to Taylor-Wells Co., Morristown, Tenn. Surgical chair .....	612,760	Oct. 18	2074	{ 491 492	{ 85	421
Wells, Eugene, et al. (See Robinson, Joseph, assignor.)						
Wells, Frank A. (See Wells, Joseph H., Jr., and F. A.)						
Wells, George, Montreal, Canada. Collapsible blind for arched windows .....	602,967	Apr. 26	2393	545	83	500
Wells, George E., Greene, N. Y. Attachment for desks .....	613,403	Nov. 1	348	80	85	682
Wells, George G. (See Skinner and Bacon, assignors.)						
Wells, George H., and H. A. Gleason, Hampshire, Ill. Wrench .....	608,942	Aug. 9	1425	336	84	949
Wells, George W., assignor to American Optical Company, Southbridge, Mass. Nose- guard for eyeglasses .....	604,448	May 24	2253	506	83	1106
Wells, Harlan P., and O. Morrill, Amesbury, Mass. Curtain-box for vehicles .....	601,744	Apr. 5	240	47	83	46
Wells, Harley D., Spencer, W. Va. Display-rack .....	606,610	June 28	2922	{ 677 678	{ 83	1967
Wells, Henry W., Philadelphia, Pa., assignor to Helios Carbide Specialty Company, At- lantic City, N. J. Acetylene-gas-generator lamp .....	610,210	Sept. 6	104	22	84	1460
Wells, James E., Syracuse, N. Y. Trolley .....	602,923	Apr. 26	2315	527	83	484
Wells, James G., Jackson, Tenn. Plow-handle clamp .....	601,765	Apr. 5	276	54	83	53
Wells, John V., Wilmerding, Pa. Triple valve .....	609,312	Aug. 16	2151	509	84	1104
Wells, Joseph H., Jr., and F. A., Aurora, Ill. Sand-distributer for locomotives .....	608,091	July 26	2892	619	84	616
Wells, Myron E., Deadwood, S. D. Signal-lantern .....	597,809	Jan. 25	2340	547	82	504
Wells, Philip F., Milford, Mich. Cultivator .....	601,295	Mar. 29	2997	677	82	1871
Wells, Thomas S., Hartford, Conn. Opera-chair .....	599,430	Feb. 22	2380	559	82	1112
Wells, Wallace H., Basher Falls, N. Y. Incandescent-lamp shade or cover .....	609,924	Aug. 30	3231	756	84	1343
Wells, William W., Sandy Hill, N. Y. Paper-making machinery .....	611,303	Sept. 27	2124	490	84	1904
Wellstood, Andrew B. (See Wellstood, William, Jr., and A. B.)						
Wellstood, William, Jr., and A. B., New York, N. Y. Combined picture and mirror .....	608,356	Aug. 2	339	74	84	723
Welsbach Light Company. (See Barrows, George S., assignor.)						
Welsbach Light Company. (See Kellner and Barrows, assignors.)						
Welsbach Light Company. (See Mason, Sidney, assignor.)						
Welsbach Light Company. (See Moeller, Julius, assignor.)						
Welsbach Light Company. (See Rudolph, William F., assignor.)						
Welsh, Edwin F. (See Starrett and Welsh.)						
Welsh, George, Providence, R. I. Box and lid-support therefor .....	609,979	Aug. 30	3345	778	84	1365
Welsh, George G., Ellwood City, Pa. Globe-valve .....	613,830	Nov. 8	1085	247	85	843
Welsh, Hamilton E., Columbia, Pa. Combined draw-head, rigging, coupling, and latch device .....	603,864	May 10	1137	256	83	837
Welsh, Hamilton E., assignor of one-half to T. J. Clepper, Columbia, Pa. Combination- tool .....	597,345	Jan. 11	1531	357	82	315



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Welsh, James. (See Dredge, John, assignor.)						
Welton, John A., Canal Dover, and J. V. Price, Gnadenhütten, Ohio. Acetylene-gas generator.	609,313	Aug. 16	2154	510	84	1105
Weltner, Rora C., Roxalana, assignor of one-half to A. B. Jordan, Spencer, W. Va. Produce-carrier	603,000	Apr. 26	2449	558	83	509
Wemett, Henry J., Lima, N. Y. Railway time-signal	615,934	Dec. 13	1301	303	85	1878
Wemhoff, George E., Decatur, Ind., assignor of one-half to E. Fritzinger. Gas-key	614,152	Nov. 15	1625	373	85	970
Wende, Ernest, <i>et al.</i> (See Richardson, Julius C., assignor.)						
Wendeborn, Ernest C., Williamson county, assignor of two-thirds to J. W. Dorris and A. Alexander, Taylor, Tex. Corn and cotton planter	597,925	Jan. 25	2525	590	82	539
Wendelken, Frederick S., Dallas, Tex. Type-writing machine	614,680	Nov. 22	2609	592	85	1165
Wendelstadt, Edward F. M., New York, N. Y. Sight for firearms	616,512	Dec. 27	2429	562	85	1940
Wendler, Gottlob, Manchester, England. Mordant	609,131	Aug. 16	1804		84	1084
Wendling, George X. (See Parker and Cross, assignors.)						
Wendling, George X., <i>et al.</i> (See Raisch, Harry J., assignor.)						
Wendt, Fredrick H., assignor to Brown Folding Machine Company, Erie, Pa. Folding-machine	615,770	Dec. 13	1015	237	85	1624
Wendt, Joseph P., Phoebus, Va. Packing-case	609,642	Aug. 23	2767	645	84	1238
Wenger, Emanuel H. (See Shallenberger, John W., assignor.)						
Wenger, Samuel M., Farmersville, Pa. Fish-hook	611,400	Sept. 27	2317	534	84	1939
Wenk, William H., Jr., Madison, Mich. Cider-press	598,456	Feb. 1	662	163	82	729
Wenker, Franklin J., Watertown, Wis. Convertible pump	611,424	Sept. 27	2368	544	84	1947
Wenner, William. (See Young and Wenner.)						
Wenning, Alfred, and C. H. Gegauff, assignors to La Société Alsacienne de Construc- tions Mécaniques, Mulhouse, Germany. Combing-machine	610,464	Sept. 6	606	135	84	1554
Wensley, Richard, Jr., Denver, Colo. Fire-extinguisher	598,188	Feb. 1	204	47	82	641
Wentscher, Ernst, Berlin, Germany. Justifying device for type-setting or other ma- chines	605,618	June 14	1024	235	83	1568
Wentscher, Ernst, Berlin, Germany. Type-writing machine	605,619	June 14	1035	237	83	1569
Wentworth, Charles C., <i>et al.</i> (See Johnson, Gustaf, assignor.)						
Wentworth, Charles C., assignor of one-half to J. E. M. Hanckel, Roanoke, Va. Floor- frame for railway-cars	608,414	Aug. 2	444	99	84	744
Wentworth, Frank B. (See Carroll and Wentworth.)						
Wentworth, Monta D., <i>et al.</i> (See Johnson, Gustaf, assignor.)						
Wentworth, Rinaldo R., <i>et al.</i> (See Johnson, Gustaf, assignor.)						
Wentworth, Wyatt W., Waterproof, La. Rake	608,737	Aug. 9	1018	233	84	874
Wentz, Samuel L., Philadelphia, Pa. Register for pocket-books	603,493	May 3	466	103	83	690
Wentzel, Lodewyk J., Cape Town, Cape Colony. Chain-wheel for cycles	614,045	Nov. 8	1426	327	85	911
Wepplo, Isaac, Bandon, Minn. Rotary steam-engine	602,787	Apr. 19	2064	468	83	421
Werkzeug Maschinenfabrik "Union," (vormals Diehl.) (See Diehl, Ruppert, and Löser, assignors.)						
Wern, Gustaf P. (See Richson, Carl E., assignor.)						
Werner, Emrick A., Chicago, Ill. Pneumatic tire	597,661	Jan. 18	2071	485	82	437
Werner, Ernest E., assignor, by mesne assignments, to S. E. Gilbert and S. I. Shute, Philadelphia, Pa. Electric-current controller	607,311	July 12	1267	270	84	262
Werner, George A., Harrisburg, Pa. Fountain marking-pen	600,299	Mar. 8	1256	287	82	1478
Werner, Louis C., Broad Brook, Conn. Electrical conductor	598,260	Feb. 1	334	77	82	665
Werner, Louis C., Broad Brook, Conn. Electric signal system	603,369	May 3	210	48	83	642
Werner, Louis C., Broad Brook, Conn. Electric signal system	603,390	May 3	247	55, 56	83	648
Werner, Louis C., Broad Brook, Conn. Electric block-signal system for railways	605,941	June 21	1660	381	83	1706
Werner, Louis C., Providence, R. I. Nut-lock	612,884	Oct. 25	2326	382	85	488
Werner, Wilhelm, assignor to H. John, Erfurt, Germany. Apparatus for cutting or di- viding metal bars	596,837	Jan. 4	670	155	82	130
Werner, Wilhelm, assignor to H. John, Erfurt, Germany. Machine for making holes in bars or girders	599,276	Feb. 15	2043	484	82	1024
Werner, Wilhelm, assignor to H. John, Erfurt, Germany. Machine for cutting bars or girders	601,606	Mar. 29	3505	799	82	1970
Wernette, Charley, <i>et al.</i> (See Wise, Harry, assignor.)						
Wernette, Josie, <i>et al.</i> (See Wise, Harry, assignor.)						
Wernicke, Carl G. W., Mankato, Minn., assignor to Nichols & Shepard Company, Battle Creek, Mich. Boiler	616,380	Dec. 20	2170	505	85	1868
Werntz, Jacob, assignor to M. M. Werntz, Akron, Ohio. Horseshoe	612,290	Oct. 11	1245	299	85	251
Werntz, Mead M. (See Werntz, Jacob, assignor.)						
Werntz, Walter J., assignor of one-half to G. C. Sunderland, Annapolis, Md. Garment- fastener	601,328	Mar. 29	3055	688	82	1880
Werremeyer, Adolph H., Jr., Central, Mo. Funnel attachment for vessels	611,304	Sept. 27	2125	491	84	1904
Wertheim, Leopold, Cassel, Germany. Apparatus for stripping off bark of wood	615,771	Dec. 13	1017	237	85	1625
Wertheim, Sandor, <i>et al.</i> (See Kirchoff, Theodor, assignor.)						
Wertheimer, Jacques, Paris, France. Apparatus for making observations by means of Roentgen or X rays	597,753	Jan. 25	2232	519	82	484
Wertheimer, Jacques, Paris, France. Apparatus for making observations by means of Roentgen or X rays	616,513	Dec. 27	2431	562	85	1940
Wertheimer, Maurice, New York, N. Y. Fastener for gloves, &c	597,132	Jan. 11	1186	278	82	247
Werts, Albert, Camden, N. J. Pipe-wrench	601,723	Apr. 5	195	38	83	39
Werts, Albert, assignor of one-half to W. W. Armstrong, Camden, N. J. Steam-trap	613,481	Nov. 1	498	112	85	710
Wertz, George, Peoria, Ill. Soft-tread horseshoe	614,521	Nov. 22	2315	530	85	1112
Wescott, Charles O., Farmington, Minn. Pipe-lock	611,305	Sept. 27	2126	491	84	1904
Wesel, Ferdinand, New York, N. Y. Printer's proof-press	608,813	Aug. 9	1178	275	84	902
Wesel, Ferdinand, New York, N. Y. Machine for shaving electrotypes, stereotypes, &c	609,643	Aug. 23	2768	276	84	1239
Wesely, Charles, Chicago, Ill. Tub	611,188	Sept. 20	1882	434	84	1839
Wesener, John A., Chicago, Ill. Germ-proof filter and making same	599,030	Feb. 15	1649	435	82	951
Weser, John A., New York, N. Y. Pianoforte	597,044	Jan. 11	1027	242	82	216
Weser, John A., New York, N. Y. Musical instrument	601,329	Mar. 29	3056	243	82	1881
Wesner, John O., Cameron, S. C. Bed-bottom	607,102	July 12	883	190	84	189
Wessel, John F., Kellogg, Iowa. Beehive	608,943	Aug. 9	1426	336	84	949
Wesselmann, Bruno, Göttingen, Germany. Metal-shearing machine	600,465	Mar. 8	1538	353	82	1531
Wesselmann, Bruno, Göttingen, Germany. Metal-shearing machine	600,466	Mar. 8	1539	353	82	1532
Wesselmann, Bruno, Göttingen, Germany. Metal-shearing machine	606,106	June 21	1986	456	83	1766



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Wesselmann, Bruno, Göttingen, Germany. Ball-caster .....	607,720	July 19	2180	459 460	84	458
Wessman, Carl A. (See Redin and Wessman.) .....						
Wesson, Daniel B., Springfield, Mass. Revolving firearm .....	615,117	Nov. 29	3431	788	85	1340
Wesson, Daniel B. and J. H., Springfield, Mass. Cylinder-stop for revolving firearms .....	611,826	Oct. 4	412	98	85	82
Wesson, Joseph H. (See Wesson, Daniel B. and J. H.) .....						
Wesson, Joseph H., Springfield, Mass. Profiling-machine .....	600,391	Mar. 8	1401	320 321	82	1506
Wesson, Joseph H., Springfield, Mass. Magazine-pistol .....	616,692	Dec. 27	2771	644	85	2004
West, Arnold J., Aberdeen, Wash. Machine for truing or facing band-wheels .....	599,374	Feb. 22	2248	533 534	82	1085
West, Augustus A., Gilman, Ill. Weighing-scoop .....	609,644	Aug. 23	2770	646	84	1239
West, Christopher R., and R. Cowan, Primghar, Iowa. Attachment for pumps .....	614,681	Nov. 22	2611	593	85	1165
West, Cromwell. (See Allen and West.) .....						
West, Edward B., Bettie, Tex. Churn-dasher .....	609,858	Aug. 30	3115	728	84	1321
West, Edward M., Bridgeton, N. J. Bicycle attachment .....	609,857	Aug. 30	3114	728	84	1320
West, Ernest W., Gloversville, N. Y. Safety-elevator .....	610,211	Sept. 6	105	22 23 24	84	1460
West, Eugene S., Marinette, Wis. Garment-holder .....	608,498	Aug. 2	584	131	84	771
West, James, London, England. Trigger mechanism for firearms .....	613,872	Nov. 8	1161	266	85	858
West, James, assignor of one-half to S. Cupples, St. Louis, Mo. Bag-machine .....	599,206	Feb. 15	1929	456 457	82	1001
West, James, assignor of one-half to S. Cupples, St. Louis, Mo. Device for punching webs of paper .....	599,207	Feb. 15	1932	457 458	82	1002
West, Jennie F., Gilman, Ill. Ventilating back-rest .....	614,153	Nov. 15	1626	373	85	970
West, John M., Boston, Mass. Culinary apparatus .....	600,818	Mar. 15	2150	491	82	1668
West, Julius H., Berlin, Germany. Automatic apparatus for telephone-switchboards .....	605,659	June 14	1103	254	83	1582
West, Julius H., Berlin, Germany. Telephone central-station apparatus .....	612,219	Oct. 11	1107	266	85	226
West, Perry S. (See Moore and West.) .....						
West, Robert. (See Leak and West.) .....						
West, Stillman A., Rochester, N. Y. Lacing device for shoe-uppers .....	599,485	Feb. 22	2482	582 583	82	1130
West, Thomas E., Normal, Nebr. Weather-strip .....	613,342	Nov. 1	214	48	85	657
West, Wharton L., Portland, Oreg., assignor to F. M. Prindle and J. D. Johnson, San Francisco, Cal. Moistener for gummed surfaces .....	609,175	Aug. 16	1883	448	84	1047
West, William, Aston, assignor of two-thirds to R. Poore, London, England. Solitaire, button, &c. ....	604,815	May 31	2906	665	83	1248
West, William M., Camden, N. J. Dumping-wagon .....	607,103	July 12	884	190 191	84	189
Westerfield, Granville G., assignor of one-half to H. C. Branham, Anderson, Ind. Metallic receptacle .....	613,343	Nov. 1	216	49	85	658
Westermann, George. (See Stenz and Westermann.) .....						
Western Camera Manufacturing Company. (See Odquist and Fyfe, assignors.) .....						
Western Elaterite Manufacturing Company. (See Anthony, Charles E., assignor.) .....						
Western Electric Company. (See McBerty, Frank R., assignor.) .....						
Western Electric Company. (See Oehring, August J., assignor.) .....						
Western Electric Company. (See Scribner, Charles E., assignor.) .....						
Western Electric Company. (See Steiner, Josef, assignor.) .....						
Western Electric Company. (See Summers and Barr, assignors.) .....						
Western Electric Company. (See Wait, Henry H., assignor.) .....						
Western Electric Company. (See Warner and Wait, assignors.) .....						
Western Railway Equipment Company. (See Floyd, George G., assignor.) .....						
Western Railway Equipment Company. (See Steinbrenner, Andrew G., assignor.) .....						
Western Wheeled Scraper Company. (See McKnight, Thomas R., assignor.) .....						
Western, Ysobel, Hamilton, Canada. Pneumatic tire .....	611,745	Oct. 4	270	64	85	55
Westervelt, Charles A., and J. P. Walters, Uhrichsville, Ohio. Self-oiling journal-box .....	596,671	Jan. 4	377	84	82	75
Westervelt, Edmund C., South Bend, Ind. Machine for making paper pails .....	613,541	Nov. 1	583	134	85	727
Westervelt, Herbert E., South Bend, Ind. Machine for folding paper bags .....	599,752	Mar. 1	134	31, 32	82	1241
Westervelt, Leonidas, et al. (See Brown, Herbert C., assignor.) .....						
Westhaver, James B., Edgewater, Colo. Bicycle-gearing .....	609,314	Aug. 16	2157	510	84	1105
Westheimer, Augusta, New York, N. Y. Portable cooking utensil .....	608,738	Aug. 9	1019	234	84	874
Westin, Anton, and O. S. Magnuson, Chicago, Ill. Gate or door hanger .....	599,083	Feb. 15	1723	409	82	965
Westinghouse Air Brake Company. (See Guillemet, Francois L., assignor.) .....						
Westinghouse Air Brake Company. (See Hogan, Thomas J., assignor.) .....						
Westinghouse Air Brake Company. (See Noyes, Henry F., assignor.) .....						
Westinghouse Air Brake Company. (See Park, Harvey S., assignor.) .....						
Westinghouse Air Brake Company. (See Westinghouse, George, Jr., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Cook, Charles S., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Davis, Harry P., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Davis and Conrad, assignors.) .....						
Westinghouse Electric and Manufacturing Company. (See Davis and Harder, assignors.) .....						
Westinghouse Electric and Manufacturing Company. (See Davis and Wright, assignors.) .....						
Westinghouse Electric and Manufacturing Company. (See Hassler, Robert H., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Salberg, Philip R., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Schmid, Albert, assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Scott, Charles F., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Scott and Lamme, assignors.) .....						
Westinghouse Electric and Manufacturing Company. (See Terry, Charles A., assignor.) .....						
Westinghouse Electric and Manufacturing Company. (See Terry and Davis, assignors.) .....						
Westinghouse Electric and Manufacturing Company. (See Wright, Gilbert, assignor.) .....						
Westinghouse, George. (See Backstrom, Charles A., assignor.) .....						
Westinghouse, George, Pittsburg, Pa. Traveling contact device for electric railways .....	606,828	July 5	363	76, 77 788	84	72
Westinghouse, George, Pittsburg, Pa. Center sill for railway-cars .....	615,118	Nov. 29	3433	789	85	1340
Westinghouse, George, Jr., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure automatic brake .....	609,484	Aug. 23	2469	576 577	84	1183
Westinghouse, Henry H. (See Edwards, William W., assignor.) .....						
Westlake, Charles E., Chicago, Ill., assignor, by mesne assignments, to Chicago Automatic Company. Coin-controlled liquid-vending apparatus .....	614,257	Nov. 15	1835	424	85	1008
Westland, Frank G., McCook, Nebr. Folding spring-seat .....	602,788	Apr. 19	2066	469	83	422
Westman, Gustaf M., New York, N. Y. Process of and apparatus for pyritic smelting .....	607,497	July 19	1789	372	84	386
Westminster Manufacturing Company. (See Rocholl, Charles, assignor.) .....						
Weston, Edward, Newark, N. J. Electrical measuring instrument .....	600,981	Mar. 22	2426	554	82	1733



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Weston, Edward, Newark, N. J. Electrical measuring instrument .....	600,982	Mar. 22	2428	555	82	1733
Weston, Edward, Newark, N. J. Electrical measuring instrument .....	600,983	Mar. 22	2431	555	82	1734
Weston, Edward, Newark, N. J. Electrical measuring instrument .....	611,722	Oct. 4	233	57	85	48
Weston, Edward, Newark, N. J. Index needle or hand for electrical measuring instruments .....	611,723	Oct. 4	238	57	85	48
Weston, Edward, Newark, N. J. Electrometer .....	611,724	Oct. 4	239	57, 58	85	49
Weston, Edward B., Dayton, Ohio. Supporting device for toilet-paper packages .....	597,230	Jan. 11	1341	313	82	276
Weston, Edward B., Dayton, Ohio. Toilet-paper fixture .....	597,231	Jan. 11	1342	313	82	276
Weston, Edward B., Dayton, Ohio. Convertible shelves and table .....	603,715	May 10	854	190	83	783
Weston, Edward B., Dayton, Ohio. Twine-holder .....	604,449	May 24	2255	507	83	1107
Weston, Edward D., assignor of one-half to B. D. Legg, Jackson, Mich. Flue-scraper .....	613,746	Nov. 8	944	216	85	816
Weston, Frederick P. (See Huke and Weston.)						
Weston, Grace M. G., Winthrop, Mass. Combined guard and cushion for nursery-chairs .....	612,076	Oct. 11	866	210	85	179
Weston, Henry B., assignor of one-half to B. W. Thomson, Kenton, Ohio. Gate .....	605,455	June 7	745	169	83	1496
Weston, Irving A., Syracuse, N. Y. Wheel-hub .....	598,041	Jan. 25	2726	636	82	578
Weston, John A., Newark, N. J. Ladder .....	615,512	Dec. 6	558	128	85	1520
Weston, Nathaniel, Redmonds, Va. Vehicle .....	606,611	June 28	2923	678	83	1967
Weston, Nathaniel, Redmonds, Va. Draft appliance .....	614,280	Nov. 15	1871	432	85	1015
Weston, William H., Yarmouthville, Me. Machine for skiving leather .....	615,935	Dec. 13	1302	304	85	1678
Westwood, Alexander L., Edinburgh, Scotland. Pulp-strainer for paper-making machines .....	607,312	July 12	1269	270	84	262
Westwood, Felix, Wheeling, W. Va. Machine for separating packs of tin plates .....	609,645	Aug. 23	2772	646	84	1239
Westwood, Felix, Wheeling, W. Va. Machine for doubling metal plates .....	611,539	Sept. 27	2565	591	84	1986
Wetherill & Co., Robert. (See Ledoux, John W., assignor.)						
Wetherill Concentrating Company. (See Rowand, Lewis G., assignor.)						
Wetmore, Job B., Wellsborough, Pa. Fire-escape .....	602,673	Apr. 19	1884	428	83	387
Wetsue, Nicholas, Ogden, Utah. Reversible pick .....	601,388	Mar. 29	3151	711	82	1899
Wettengel, Emil, Markneukirchen, Germany. Tuning device for musical stringed instruments .....	609,715	Aug. 23	2883	674	84	1261
Wetzler, Leo, assignor of one-half to E. J. Blimline and M. S. Sonneborn, Baltimore, Md. Vest .....	614,068	Nov. 8	1468	337	85	920
Wewers, William, assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Combined draft-regulator and ash-pit door .....	615,599	Dec. 6	704	162	85	1551
Wewers, William, assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Anticreosoting device .....	615,600	Dec. 6	707	163	85	1551
Weyburn, Arthur C. (See Thompson and Rush, assignors.)						
Weyburn & Briggs Company. (See Clark, William A., assignor.)						
Wezel, Julius, Leipsic, Germany. Smoke-consuming furnace .....	608,739	Aug. 9	1021	234	84	875
Whan, Sarah A., Brooklyn, N. Y. Bicycle-habit .....	597,133	Jan. 11	1188	279	82	247
Wharton, Richard, Philadelphia, Pa. Heddle for cross-weaving .....	613,615	Nov. 1	705	163	85	751
Wharton, Stewart P. (See Cleveland, Roswell W. C., assignor.)						
Wheat, Allen A., et al. (See Rising, Bradley D., assignor.)						
Wheat, Allen A., West Springfield, assignor of two-thirds to C. McKernon, Mittineague, and B. D. Rising, Springfield, Mass. Beating or washing engine .....	606,174	June 21	2105	484	83	1787
Wheatley, Thomas, assignor to Olive Wheel Company, Syracuse, N. Y. Pneumatic tire .....	598,212	Feb. 1	253	56	82	650
Wheaton, Stockford, Jr. (See Sullivan, John F., assignor.)						
Wheaton, William R., and P. R. Wagor, Springfield, Mass.; said Wagor assignor to said Wheaton. Carpet-sewing machine .....	615,936	Dec. 13	1304	304	85	1678
Wheelan, Fairfax H. (See Jessup, Robert W., assignor.)						
Wheeldon, John W., Colorado Springs, assignor of one-fourth to M. Harrington, Hartsel, Colo. Wheel .....	597,346	Jan. 11	1533	357	82	315
Wheeler, Austin K., et al. (See Calkins and Lindberg, assignors.)						
Wheeler, Benjamin A., assignor to Draper Machine Tool Company, Worcester, Mass. Engine-lathe .....	602,924	Apr. 26	2317	528	83	485
Wheeler, Benjamin F., assignor to Wheeler Saddle Co., Detroit, Mich. Bicycle-saddle .....	613,050	Oct. 25	2583	613	85	540
Wheeler, C. H. (See Sargent, Charles G., assignor.)						
Wheeler, Charles Y., Allegheny, and F. L. Slocum, Pittsburg, Pa. Manufacture of chrome-steel alloy .....	597,869	Jan. 25	2439		82	524
Wheeler, Cyrenus, Jr., Auburn, N. Y. Clothes-wringer .....	599,431	Feb. 22	2381	559	82	1112
Wheeler, Elonzo S., Saugatuck, Conn., assignor of one-half to W. Van Derveer, New York, N. Y. Rail-joint .....	612,220	Oct. 11	1108	266	85	227
Wheeler, Frank D. (See Buehler, Louis, assignor.)						
Wheeler, Gage M., Tacoma, Wash. Automatic loader, conveyer, and unloader .....	614,640	Nov. 22	2533	577	85	1152
Wheeler, H. A. (See Gilfillan, Essington N., assignor.)						
Wheeler, Herbert A., St. Louis, Mo. Setting tiles in kilns .....	614,258	Nov. 15	1837	425	85	1009
Wheeler, Herbert A., St. Louis, Mo. Tile-die .....	616,170	Dec. 20	1771	410	85	1789
Wheeler, Houston J., assignor of one-half to B. D. Atwell, Hutchins, Tex. Automatic cotton elevator and distributor .....	610,293	Sept. 6	294	64	84	1499
Wheeler, James, Ilfracombe, England. Method of and apparatus for producing films .....	611,047	Sept. 20	1619	370	84	1788
Wheeler, Marshall G., Chicago, Ill. Small scale .....	615,937	Dec. 13	1307	304	85	1679
Wheeler, Meyer. (See Sawyer, Harry B., assignor.)						
Wheeler, Milo L. G., North Yakima, Wash. Pump .....	601,920	Apr. 5	568	118	83	108
Wheeler, Nelson A., assignor of one-half to W. P. Wheeler, Stockton, Cal. Gear-cutting machine .....	611,851	Oct. 4	456	109	85	91
Wheeler Saddle Co. (See Wheeler, Benjamin F., assignor.)						
Wheeler, Samuel H., Fairfield, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine folder attachment .....	614,313	Nov. 15	1919	443	85	1025
Wheeler, Seth, Albany, N. Y. Toilet-paper .....	607,498	July 19	1791	372	84	387
Wheeler, Thomas. (See Williams, Thomas H., assignor.)						
Wheeler, Warren P. (See Wheeler, Nelson A., assignor.)						
Wheeler, William H., Cleveland, Ohio. Oil-burning apparatus .....	598,667	Feb. 8	1032	249	82	815
Wheeler & Wilson Manufacturing Company. (See Clark, James H., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Dial and Dimond, assignors.)						
Wheeler & Wilson Manufacturing Company. (See Dimond, George H., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Dimond and Dial, assignors.)						
Wheeler & Wilson Manufacturing Company. (See Fien and Harrison, assignors.)						
Wheeler & Wilson Manufacturing Company. (See Laubscher, Alexander, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Miller, Lee A., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Ostrom, Freeland W., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Wheeler, Samuel H., assignor.)						
Wheeler, Zadoc L., Cedar Falls, Iowa. Thill-coupling .....	602,710	Apr. 19	1945	442	83	399



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Wheelock, Frank H., assignor of one-half to G. W. Walsh, St. Paul, Minn. Means for preventing slipping of car-wheels upon grades	601,296	Mar. 29	2999	677	82	1871
Wheelwright, Charles S., Providence, R. I. Straining-wheel for liquids	611,879	Oct. 4	496	120	85	99
Whelan, Dennis J. (See Riley, Hugh A., assignor.)						
Whelan, Dennis J. (See Watrous, Earl G., assignor.)						
Whelan, Dennis J. (See Watrous and Riley, assignors.)						
Whelan, William. (See Stephens, Albert G., assignor.)						
Whelan, William, <i>et al.</i> (See Morrison and Moran, assignors.)						
Wholesale Induction Railway Company. (See Freil, Oscar, assignor.)						
Whewell, George. (See Kenyon and Whewell.)						
Whipple, Effinger E., Cooperstown, N. Y. Harrow	600,658	Mar. 15	1876	429 430	82	1615
Whipple, Effinger E., Cooperstown, N. Y. Harrow	600,659	Mar. 15	1880	430	82	1616
Whipple, Effinger E., Cooperstown, N. Y. Wheeled attachment for harrows	600,660	Mar. 15	1885	431	82	1617
Whipple, Effinger E., Cooperstown, N. Y. Supporting attachment for harrows	600,661	Mar. 15	1889	431	82	1618
Whipple, Effinger E., Cooperstown, N. Y. Attachment for harrows	600,662	Mar. 15	1892	432	82	1619
Whipple, Effinger E., Cooperstown, N. Y. Supporting attachment for harrows	600,663	Mar. 15	1896	432	82	1620
Whipple, Effinger E., Cooperstown, N. Y. Cultivator	607,632	July 19	2036	422 423	84	431
Whipple, Effinger E., St. John's, Mich. Harrow	604,343	May 17	2061	461 462	83	1050
Whipple, Effinger E., Utica, N. Y. Harrow	609,980	Aug. 30	3346	778 779	84	1365
Whipple, Effinger E., Utica, N. Y. Wheeled supporting attachment for harrows	609,981	Aug. 30	3351	779	84	1366
Whipple, Effinger E., Utica, N. Y. Supporting attachment for harrows	610,115	Aug. 30	3558	825	84	1408
Whipple, Effinger E., Utica, N. Y. Supporting attachment for harrows	611,160	Sept. 20	1898	423 424	84	1830
Whipple, Effinger E., Utica, N. Y., assignor to Standard Harrow Company. Cultivator	609,064	Aug. 16	1674	398	84	1012
Whipple, Henry J. P., New Haven, Conn. Knob attachment	601,724	Apr. 5	197	38	83	39
Whipple, James C., assignor to R. T. Whipple, Chicago, Ill. Lace-curtain stretcher	610,294	Sept. 6	297	64	84	1499
Whipple, Marcus M., 2d, Sharon, Mass. Feed-roll	615,646	Dec. 6	793	183	85	1569
Whipple, Riley T. (See Whipple, James C., assignor.)						
Whippo, John K., Sherrett, assignor of one-half to J. H. Frederick, West Monterey, Pa. Study-table	609,751	Aug. 23	2932	685 686	84	1270
Whitacre, Nehemiah R., Marlton, N. J. Pruning-shears	607,388	July 12	1410	301	84	289
Whitaker, Charles G., Westfield, Mass. Vehicle-wheel	603,865	May 10	1139	256	83	838
Whitaker, John, Schenectady, N. Y. Support for incandescent electric lights	599,543	Feb. 22	2575	604	82	1148
Whitaker, John B., assignor of one-half to B. P. Wynn, Tennille, Ga. Fertilizer-distributor and planter attachment for cultivators	603,802	May 10	1012	226	83	814
Whitaker, Joseph R., Wilmington, Ohio. Tire-bolting machine	611,540	Sept. 27	2569	592	84	1986
Whitaker, Richard, assignor to Neverslip Manufacturing Company, New Brunswick, N. J. Horseshoe-calk	605,766	June 14	1282	297	83	1617
Whitaker, Richard, assignor to Neverslip Manufacturing Company, New Brunswick, N. J. Horseshoe-calk	610,212	Sept. 6	108	24	84	1461
Whitaker, Simon S., Venetia, Pa. Non-refillable bottle	609,716	Aug. 23	2884	674	84	1262
Whitaker, William A., Ash Grove, Mo. Folding crate	596,561	Jan. 4	174	39	82	35
Whitall, Tatum & Co. (See Tatum, Charles A., assignor.)						
Whitbeck, Arthur J., New Britain, Conn. Bicycle-tire-repair kit	610,594	Sept. 13	844	194	84	1618
Whitcher, Frank W. (See Kahle, George L., assignor.)						
Whitcomb, Alonzo, Worcester, Mass. Driving mechanism for planing-machines	598,967	Feb. 15	1537	366	82	928
Whitcomb, Frank L. (See Archdeacon, John P., assignor.)						
Whitcomb, William A., Downs, Ill. Gate	607,721	July 19	2181	460	84	459
Whitcomb, William A., Downs, Ill. Gate	615,772	Dec. 13	1018	238	85	1625
Whitcomb, William L., <i>et al.</i> (See Guest, John H., assignor.)						
Whitcomb, Winfield S., and G. A. Barton, Walton, N. Y. Burial-casket	611,880	Oct. 4	500	121	85	100
White, Albert, and D. F. Sullivan; said Sullivan assignor to M. Sullivan, Lowell, Mass. Stop-motion for circular-knitting machines	604,344	May 17	2064	462 242	83	1050
White, Bruce C., Chicago, Ill. Molding apparatus	600,188	Mar. 8	1071	243 689	82	1443
White, Charles E., assignor to Weir Plow Company, Monmouth, Ill. Riding-cultivator	601,330	Mar. 29	3059	690	82	1881
White, Charles E., Quincy, assignor to W. B. White, Boston, Mass. Eyeglass-case	602,025	Apr. 5	756	162	83	143
White, Charles G., assignor of one-half to J. F. Hink, Woodland, Cal. Pump	602,492	Apr. 19	1557	354	83	326
White, Charles S., assignor of one-half to J. S. Bear, Minneapolis, and G. N. Moran, Eden Prairie, Minn. Gasolene-filter	604,450	May 24	2256	507	83	1107
White, Charles W., assignor to M. J. White, Waco, Tex. Cotton-cleaning and mattress-stuffing machine	599,049	Feb. 15	1674	396	82	956
White, Clarence O., assignor to Minneapolis Cooperage Company, Minneapolis, Minn. Machine for sizing barrel-hoops and securing ends thereof	597,701	Jan. 18	2146	501 502 324 325 326 327 328	82	449
White, Clarence O., and M. B. Lloyd, assignors to Woven Wire Machinery Company, Minneapolis, Minn. Apparatus for weaving coiled-wire fabric	605,831	June 14	1421	326 327 328	83	1642
White, Edward E., Oshkosh, Wis. Bicycle	616,381	Dec. 20	2171	506	85	1869
White, Elisha J. (See Hasty, William P., assignor.)						
White, Eugene H., New Haven, Conn. Bicycle-bell	608,499	Aug. 2	585	131	84	771
White, Frank, New York, N. Y., and F. J. Murphy, Pomona, Cal. Plumber's clamp	602,381	Apr. 12	1365	305	83	275
White, Frank W., Marion, Ind. Lock and support for bicycles	611,401	Sept. 27	2318	535	84	1939
White, Fred. (See Lovell, Charles W., assignor.)						
White, Frederick L. (See Zimmerman and White.)						
White, Frederick T., <i>et al.</i> (See Harden, John J., assignor.)						
White, George H. (See Williams and White.)						
White, George L., assignor to L. C. White Company, Waterbury, Conn. Campaign badge or pin	596,798	Jan. 4	605	140	82	116
White, Hammond L., Brooklyn, N. Y. Folding bicycle-stand	598,547	Feb. 8	820	196	82	776
White, Harriet, Flushing, N. Y. Photographic-shutter-operating lever	599,576	Feb. 22	2644	619 620	82	1162
White, Henry P., Kalamazoo, assignor of one-half to B. A. Nixon, Hillsdale, Mich. Rotary engine	613,344	Nov. 1	217	49	85	658
White, Henry P., Kalamazoo, assignor of one-half to B. A. Nixon, Hillsdale, Mich. Reversible rotary engine	613,345	Nov. 1	219	50	85	658
White, Herbert. (See White, Joseph W. and H.)						
White, Herbert E., New York, N. Y. Machine for cutting incandescent mantles	610,213	Sept. 6	109	24	84	1461
White, James, Melvale, Md. Hot-water heater	604,484	May 24	2333	529	83	1120



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White, James E., assignor of one-half to G. C. Hitt and H. S. New, Indianapolis, Ind. Mail-catcher	603,749	May 10	913	202	83	794
White, James H. (See Dubbs, Jesse A., assignor.)						
White, James H., Ansonia, Ohio. Framing-square	612,690	Oct. 18	1948	461	85	397
White, James H., Brooklyn, assignor to Manhattan Brass Company, New York, N. Y. Lamp-burner	603,417	May 3	302	68	83	658
White, James S., Brooklyn, N. Y. Means for securing letters, &c., to windows, &c	598,331	Feb. 1	456	109	82	688
White, John H., Arkansas City, Kans. Hydrocarbon-burner	599,577	Feb. 22	2647	620	82	1162
White, John R., Boston, Mass. Trip mechanism for cars	611,852	Oct. 4	458	110	85	92
White, Joseph A. (See Moore and White.)						
White, Joseph J., New Lisbon, N. J. Adjustable chair	606,612	June 28	2925	678 679	83	1968
White, Joseph W. and H., Widnes, England. Aerial ropeway	614,046	Nov. 8	1427	327 328	85	912
White, Joshua H., and T. S. Barker, Yarnaby, Ind. Ter. Insect-destroyer	600,106	Mar. 1	879	202	82	1386
White, Lemuel R., Hebron, Iowa. Horse-power	610,595	Sept. 13	845	194	84	1619
White, Louis L., San Francisco, Cal. Dental impression material	603,803	May 10	1014	226	83	815
White, Margaret A., Southampton, N. Y. Trunk	611,189	Sept. 20	1883	435	84	1839
White, Mary J. (See White, Charles W., assignor.)						
White, Mason F., Bloomington, Ill. Convertible freight-car	606,698	July 5	113	24, 25	84	24
White, Maurice W., Somerville, assignor of one-half to F. A. Suck, Boston, Mass. Violin	605,942	June 21	1667	382	83	1707
White, Morris C., Los Angeles, Cal. Antirattling thill-coupling	614,193	Nov. 15	1692	389	85	983
White, Otis C., Worcester, Mass. Support for electric lamps	596,729	Jan. 4	488	111	82	95
White, Paul H., assignor to Indiana Bicycle Company, Indianapolis, Ind. Chain-guard for bicycles	599,820	Mar. 1	281	63	82	1266
White, Paul H., assignor to Indiana Bicycle Company, Indianapolis, Ind. Back-pedal-ing brake	610,507	Sept. 6	690	155	84	1571
White, Perry G., assignor of one-half to C. W. Perkins, Cedar Rapids, Iowa. Lawn-mower	599,208	Feb. 15	1934	458	82	1003
White, R. J. (See Dupee, John C., assignor.)						
White, Robe C., trustee. (See Randleff, Carl H. B., assignor.)						
White, Rollin H., Cleveland, Ohio. Machine for grinding balls	609,218	Aug. 16	1965	467	84	1065
White, Rollin H., Cleveland, Ohio. Ball-grinding machine	609,219	Aug. 16	1967	467	84	1065
White, Rollin H., Cleveland, Ohio. Machine for sorting balls	609,220	Aug. 16	1971	468	84	1066
White, Rollin H., Cleveland, Ohio. Ball-grinding machine	609,221	Aug. 16	1973	468 469	84	1067
White, Rollin H., assignor to A. L. Moore Company, Cleveland, Ohio. Clamping de-vice	602,149	Apr. 12	978	214	83	196
White Sewing Machine Company. (See Colegrove, Charles E., assignor.)						
White, T. Stewart, et al. (See Linn, Allen B., assignor.)						
White Warner Company. (See Tinkham, Howard A., assignor.)						
White, Warren E., assignor of one-half to E. P. Fitzgerald, J. B. Mager, and E. B. Thumma, Garrett, Ind. Gas-engine	599,375	Feb. 22	2250	534	82	1086
White, Warren E., assignor of one-half to Garrett Engine, Boiler and Machine Works, Garrett, Ind. Gas-engine attachment	599,376	Feb. 22	2254	535	82	1086
White, Warren W., et al. (See Parsons, Willard T., assignor.)						
White, William B. (See White, Charles E., assignor.)						
White, William C., Danville, Va. Nut-lock	610,838	Sept. 13	1253	289	84	1702
White, William H., Edinburgh, Scotland. Apparatus for playing of golf	610,336	Sept. 6	377	80	84	1512
White, William R., Bloomington, Ill. Gate	614,682	Nov. 22	2612	593	85	1165
Whitehead, Benjamin S., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Device for displaying photographs, pictures, &c	607,104	July 12	885	191	84	190
Whitehead & Hoag Company. (See Akins, Ralph L., assignor.)						
Whitehead & Hoag Company. (See Whitehead, Benjamin S., assignor.)						
Whitehead, I. Wixom. (See O'Sullivan, Michael, assignor.)						
Whitehead, John, Urbana, Ohio. Water-dam	596,644	Jan. 4	325	70	82	64
Whitehead, John, Fiume, Austria-Hungary. Torpedo-launching apparatus	608,814	Aug. 9	1182	276 277	84	903
Whitehead, John L., Williamsburg, Ky. Monkey-wrench	598,588	Feb. 8	893	214	82	790
Whitehead, Wilbur C. (See Angell, George W., assignor.)						
Whitehead, William, Manchester, England. Electric clock	604,508	May 24	2373	539 540	83	1127
Whitehead, William L. (See Skevington and Whitehead.)						
Whitehouse, John T. (See Van Dorn and Whitehouse.)						
Whitehurst, W. J., et al. (See Hysore, Alphenas V., assignor.)						
Whiteley, Charles E. E., et al. (See Hoffman, Edmund, assignor.)						
Whiteley, Charles E. E., et al. (See Hoffman and Frist, assignors.)						
Whiteley, Henry, et al. (See Hoffman, Edmund, assignor.)						
Whiteley, Henry, et al. (See Hoffman and Frist, assignors.)						
Whiteley, James S., et al. (See Penn, George W. and George W., Jr., assignors.)						
Whiteley, Joseph, Salford, England. Apparatus for treating fluids	615,329	Dec. 6	186	47	85	1450
Whiteley, William, Huddersfield, England. Yarn-drying apparatus	610,781	Sept. 13	1152	264 265	84	1681
Whiteley, William G., et al. (See Hoffman, Edmund, assignor.)						
Whiteley, William G., et al. (See Hoffman and Frist, assignors.)						
Whitenack, John O., New York, N. Y. Wall	600,392	Mar. 8	1403	321	82	1507
Whitener, Henry J., Marquand, Mo. Post-driver	615,330	Dec. 6	187	47, 48	85	1450
Whitfield, Howard, Red Bank, N. J. Manifold-book	606,321	June 28	2397	555	83	1865
Whitfield, James H., Ocala, Fla. Car-coupling	612,469	Oct. 18	1553	372	85	323
Whitfield, Marcy L., Memphis, Tenn., assignor to American Dynamo Engine and Motor Lamp Company, of Tennessee. Combined generator and steam-engine	611,006	Sept. 20	1550	357 358	84	1775
Whitfield, William A. (See Cook and Whitfield.)						
Whitin Machine Works. (See Coffin, Melvin H., assignor.)						
Whitin Machine Works. (See Orrell, Ephraim E., assignor.)						
Whitin Machine Works. (See Smith, Cyrus E., assignor.)						
Whiting, Frederic A., Whitman, Mass. Tool for cutting and crimping channel-flaps	613,895	Nov. 8	1197	274	85	865
Whiting, John H., Belvidere, Ill. Rotary-motion transmitter from car-axes	598,189	Feb. 1	206	48	82	641
Whiting, John H., Belvidere, Ill. Mechanism for indicating distance traveled by cars or vehicles	606,258	June 28	2289	529	83	1844
Whiting, John H., and D. Lillibridge, Belvidere, Ill.; said Lillibridge assignor to said Whiting. Combined dish-washer and churn	614,522	Nov. 22	2316	531	85	1112
Whiting, Louis R., Terrell, Tex. Car-coupling	602,493	Apr. 19	1558	355	83	326
Whiting, Philip E., Carmi, Ill. Type-writer cabinet	613,182	Oct. 25	2788	657	85	582
Whitley, Ralph, assignor of one-half to J. Fairhurst, Paterson, N. J. Swivel batten and shuttle for looms	608,816	Aug. 9	1188	278	84	904



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Whitlock, James G. (See Hanson, Victor, assignor.)						
Whitlock, James G. (See Ritter and Hazlewood, assignors.)						
Whitlock, James G. (See Ritter and Moyers, assignors.)						
Whitlock Machine Company. (See Whitlock, Sturges, assignor.)						
Whitlock, Sturges, Shelton, assignor to Whitlock Machine Company, Derby, Conn. Printing-press	599,990	Mar. 1	572	132	82	1321
Whitlow, Samuel C., Newburg, N. Y. Seat or saddle support for bicycles, &c	602,389	Apr. 12	1383	309	83	278
Whitman & Barnes Manufacturing Company. (See Lamb, Levi L., assignor.)						
Whitman & Barnes Manufacturing Company. (See Motherwell, David M., assignor.)						
Whitman & Barnes Manufacturing Company. (See Toy, Elias L., assignor.)						
Whitman, Eugene, Vernon, La. Plow attachment	603,437	May 3	337	75	83	664
Whitman, Frank V., Walkerville, Mont., and J. W. James, Duncan, Ind. Ter. Wrench-tongs	612,982	Oct. 25	2475	590	85	519
Whitman, Rudolph, and O. C. Abbott, Walkerville, Mont. Bicycle-gear	599,209	Feb. 15	1936	458	82	1003
Whitmore, Robinsons & Company. (See Blackwell, Harry, assignor.)						
Whitner, Hiram K., Chicago, Ill. Safety-support for window-cleaners	606,400	June 28	2547	590	83	1893
Whitney Bicycle Improvement Company. (See Whitney, George E., assignor.)						
Whitney, Charles H., Cookeville, Tenn. Combined plow, planter, and cultivator	605,767	June 14	1283	298	83	1617
Whitney, Edward H. and H. E., Cambridge, assignors to Dover Stamping Company, Boston, Mass. Watering-pot	598,126	Feb. 1	93	22	82	620
Whitney, George E., Boston, Mass., assignor to Whitney Motor Wagon Company, Kittery, Me. Engine	601,218	Mar. 22	2828	646 647	82	1810
Whitney, George E., Boston, Mass., assignor to Whitney Bicycle Improvement Company, Kittery, Me. Covering for drive-chains	607,786	July 19	2294	484	84	480
Whitney, Horace E. (See Whitney, Edward H. and H. E.)						
Whitney, James E., Leominster, Mass. Antirattling thill-coupling	615,513	Dec. 6	559	128	85	1520
Whitney Motor Wagon Company. (See Whitney, George E., assignor.)						
Whitney, Oliver B., Marlborough, N. Y. Car brake and fender	609,646	Aug. 23	2773	646 647	84	1240
Whitney, Thomas J., Philadelphia, Pa. Steam-boiler feeder	613,404	Nov. 1	349	80	85	682
Whiton, Lucius E., New London, Conn. Lathe	610,981	Sept. 20	1509	346 347	84	1767
Whitridge, Frederick W., administrator. (See Siemens, Ernst W. von.)						
Whittaker, Edward, Methuen, Mass. Device for bending teeth in card-clothing	606,829	July 5	365	77	84	73
Whitted, Robert H., Crawfordville, Ind. Grocer's cabinet	601,921	Apr. 5	570	118	83	108
Whittemore, James M., Washington, D. C. Breech-loading firearm	607,313	July 12	1270	271	84	262
Whittemore, Joseph B., London, England. Electrical primary battery	599,411	Feb. 22	2327	-----	82	1101
Whittier Machine Company. (See Clark, John H., assignor.)						
Whittiker, Anthony C., Naugatuck, Conn. Sleigh	599,991	Mar. 1	575	132	82	1322
Whittingham, George H., Baltimore, Md. Mechanism for controlling electric circuits	614,914	Nov. 29	3032	694	85	1263
Whittingham, George H., Baltimore, Md., assignor to Automatic Switch Company of Baltimore City, of Maryland. Centrifugal resistance-controlling device	600,051	Mar. 1	770	175	82	1364
Whittingham, George H., Baltimore, Md., assignor to Automatic Switch Company of Baltimore City, of Maryland. Automatic device for removing resistance in starting electric motors	602,413	Apr. 12	1423	322	83	286
Whittington, William L., St. Joseph, Mo. Syringe	604,645	May 24	2608	596	83	1172
Whittle, Charles P., Boston, Mass. Drawer	599,753	Mar. 1	139	32	82	1242
Whittle, John J., New York, N. Y. Bicycle-support	601,109	Mar. 22	2635	602	82	1774
Whittle, William E. (See Butler, Thomas J., assignor.)						
Whittum, Edward, Fall River, Mass. Thread-guide support for spinning-machines	600,341	Mar. 8	1321	302	82	1491
Whitworth, Thomas E. (See Smack and Bulkeley, assignors.)						
Whitzel, William P. (See Hager, Charles E. O., assignor.)						
Wholton, William, Hamilton, Canada. Locked bicycle-support	612,077	Oct. 11	866	210 211	85	179
Whyland, Calvin A. (See Turnbull, George A., assignor.)						
Whyman, Horatio O., Norfolk, Nebr., assignor to Whyman Patent Shoe Lace Company, Aurora, Ill. Lace-holder	607,813	July 19	2367	502	84	495
Whyman Patent Shoe Lace Company. (See Whyman, Horatio O., assignor.)						
Whyte, George L., Danville, Ind. Power-transmitting device	602,674	Apr. 19	1885	428 429	83	387
Whyte, John D., Urmston, England. Yarn-winding machine	605,984	June 21	1750	401 402	83	1722
Whyte, John D., Urmston, assignor of one-fourth to H. S. Golland, Worsley, England. Yarn-guide for spinning-mules	604,593	May 24	2521	574	83	1155
Wiard, Harry, and H. M. Burdick, Syracuse, assignors, by mesne assignments, to National Harrow Company, Utica, N. Y. Harrow	604,345	May 17	2066	463 462	83	1050
Wiat, Ernest, Paris, France. Milk-can	602,675	Apr. 19	1888	429	83	387
Wible, Simon W., Bakersfield, Cal. Grader, ditcher, and road and levee builder	612,579	Oct. 18	1740	412	85	357
Wible, William F., Gettysburg, Pa. Permutation-padlock	610,424	Sept. 6	535	118	84	1541
Wiborgh, Johan G., Stockholm, Sweden. Phosphate and making same	601,089	Mar. 22	2600	-----	82	1767
Wich, Ferdinand J. (See Ireland and Wich.)						
Wich, Ferdinand J., Didsbury, England. Speed and distance indicator and recorder for velocipedes, &c	610,782	Sept. 13	1155	265 266	84	1682
Wich, Ferdinand J., Manchester, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Interchangeable ejector-blade for linotype and analogous machines	613,831	Nov. 8	1085	247	85	843
Wich, Ferdinand J., Manchester, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Trimming mechanism for linotype-machines	614,590	Nov. 22	2437	556	85	1134
Wich, Ferdinand J., Manchester, England, and C. L. Ireland, deceased, (L. M. Ireland, administratrix,) assignors to Mergenthaler Linotype Company, New York, N. Y. Trimming mechanism for linotype-machines	614,588	Nov. 22	2432	555	85	1133
Wich, Ferdinand J., Manchester, England, and C. L. Ireland, deceased, (L. M. Ireland, administratrix,) assignors to Mergenthaler Linotype Company, New York, N. Y. Trimming mechanism for linotype-machines	614,589	Nov. 22	2434	555	85	1133
Wichman, Albert C. F., Fort Wayne, Ind., assignor to Anthony Wayne Manufacturing Company, St. Louis, Mo. Washing-machine	606,699	July 5	114	25	84	25
Wichmann, Henry, New Holstein, Wis. Windmill	607,151	July 12	971	210	84	204
Wicke, Wilhelm, assignor to Cleveland School Furniture Company, Cleveland, Ohio. Adjustable furniture	601,862	Apr. 5	473	95, 96	83	88
Wickers, Joseph C. (See Brennan, Frank W., assignor.)						
Wickers, Joseph C., New York, N. Y. Blacking brush or dauber	610,750	Sept. 13	1089	250	84	1669
Wickers, William H., Indianapolis, Ind. Card-display cabinet	604,221	May 17	1826	409	83	1005
Wickersham, Enoch G., Grover Hill, Ohio. Vocal and instrumental note-reading device	605,157	June 7	182	45	83	1385
Wickersham, Frank P. (See Gilbert, Melvin E., assignor.)						
Wickes Brothers. (See Baker, Ludwig, assignor.)						
Wickes, Jesse S., and J. Ketterly, Pittsburg, Pa. Car-brake	605,531	June 14	857	201	83	1538
Wickes, William J., and L. Baker, Saginaw, Mich. Upright water-tube boiler	604,509	May 24	2375	540	83	1127



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Wickham, Frank W. (See Jessup and Wickham.)						
Wickham, James W. (See Jessup and Wickham.)						
Wickham, Jasper E., Glenwood, Iowa. Appliance for preserving public records	612,078	Oct. 11	870	211	85	181
Widders, William D., Fairland, Ind. Ter. Car-coupling	612,470	Oct. 18	1554	372	85	323
Widness, Lawrence J., Brooklyn, N. Y. Cleaner	602,592	Apr. 19	1725	392	83	356
Widrig, Charles M., Jamestown, N. Y. Lantern	614,591	Nov. 22	2440	556	85	1134
Wiedenbauer, Alois, assignor to W. Zimmerman, Chicago, Ill. Commutator air-blast driving-shaft	596,928	Jan. 4	820	195	82	160
Wieder, Benjamin G., Seigfried's Bridge, Pa. Steam-valve wheel	608,740	Aug. 9	1022	234	84	875
Wiederhold, Oscar, Summit, N. J. Annunciator	612,885	Oct. 25	2327	554	85	488
Wiedersheim, John A., Philadelphia, Pa. Apparatus for filtering or purifying and aerating water	605,985	June 21	1754	402	83	1722
Wiedmann, Heinrich, Newark, N. J. Tap-wrench	597,533	Jan. 18	1857	431	82	395
Wiedrich, Charles L., assignor to United Hame Company, Buffalo, N. Y. Finishing-machine	610,295	Sept. 6	299	64, 65	84	1499
Wiehl, Joseph H., Zelienople, assignor of one-third to W. M. C. Jones, Pittsburg, Pa. Pocket mucilage-reservoir	596,951	Jan. 4	864	202	82	168
Wiehl, Joseph H., Zelienople, assignor of one-third to W. M. C. Jones, Pittsburg, Pa. Attachment for gas-engines	608,944	Aug. 9	1427	336	84	949
Wieland, Charles F., assignor of one-half to S. G. Swanson, Reedsville, Pa. Drop-press	607,579	July 19	1937	402	84	412
Wieland, George A., Duluth, Minn. Pocket-book	601,922	Apr. 5	571	119	83	108
Wieland, Perry J., Spring Valley, Ohio. Machine for weaving stay-wires on wire fences	616,514	Dec. 27	2434	563	85	1940
Wielsch, Arthur E. (See Otto and Wielsch.)						
Wiens, Adolph R., and G. J. Brands, Milwaukee, Wis. Hand-grip	604,706	May 24	2724	622	83	1194
Wiens, John P., assignor of two-thirds to S. S. Weil, Milwaukee, Wis. Handle for bicycle handle-bars	599,084	Feb. 15	1724	409	82	966
Wiesenfeld, Robert S., Baltimore, Md. Horseshoe	609,132	Aug. 16	1805	430	84	1034
Wiesenfeld, Robert S., assignor of one-half to J. Friedenwald, Baltimore, Md. Soft-tread horseshoe	604,816	May 31	2908	665	83	1248
Wiesman, Max. (See Feinstein and Wiesman.)						
Wiessner, Oscar E. A. (See Duwe, Adolf G., assignor.)						
Wiessner, Oscar E. A. (See Everitt, Robert J., assignor.)						
Wigelius, Victor, Scotia, Cal. Journal-box	610,571	Sept. 13	798	182	84	1608
Wiggershaus, Emil, Elberfeld, Germany. Lifting-jack	612,079	Oct. 11	871	211	85	181
Wiggin, Andrew, Boston, Mass. Tube for transmission of sound	612,761	Oct. 18	2078	492	85	422
Wiggins, Josiah C., Eupora, Miss. Fish-plate for coupling railway-rails	613,100	Oct. 25	2666	630	85	557
Wiggins, Robert H., Butte, Mont. Plow	599,210	Feb. 15	1937	458 459	82	1003
Wiggs, Zeph, Denton, Tex. Claw-bar	612,600	Oct. 18	1775	499	85	364
Wight, William P., Colorado Springs, Colo. Tile bench for hothouses	602,649	Apr. 19	1830	417	83	376
Wightman, Daniel A., Pittsburg, Pa. Locomotive-frame brace	614,641	Nov. 22	2535	578	85	1152
Wightman, Frank H., Wichita, Kans. Sealing-wax can	599,412	Feb. 22	2329	550	82	1101
Wigner, Joseph W., Wabash, Ind. Apparatus for dyeing hats	614,047	Nov. 8	1429	329	85	912
Wigtil, Ole, Canby, Minn. Wrench	608,628	Aug. 9	824	191	84	836
Wigtil, Ole, Canby, Minn. Hat and coat hanger	611,669	Oct. 4	140	34	85	30
Wilber, Albert G., deceased, Aurora, Ill.; J. I. Wilber, administratrix. Sharpener for lawn-mower knives	597,926	Jan. 25	2527	590	82	539
Wilber, Albert G., deceased, Aurora, Ill.; J. I. Wilber, administratrix. Washing-machine	614,154	Nov. 15	1627	373 374	85	971
Wilber, Julia I., administratrix. (See Wilber, Albert G.)						
Wilbraham Baker Blower Company. (See Green, Thomas W., assignor.)						
Wilbur, Edwin, Newport, R. I. Non-refillable bottle	615,601	Dec. 6	708	163	85	1551
Wilburn, Hugh, Ritzville, Wash. Bicycle-gear	608,241	Aug. 2	129	31	84	680
Wilcher, John D., assignor of one-half to W. P. Stine, Charleston, W. Va. Carpet-stretcher	600,129	Mar. 1	973	216	82	1408
Wilcke, Henry, Liverpool, England. Motor	608,242	Aug. 2	130	31, 32	84	680
Wilcomb, Frank, assignor of one-half to A. H. Smith and G. H. Lumb, Pawtucket, R. I. Feeding mechanism for knitting-machines	597,794	Jan. 25	2316	540 541	82	500
Wilcox, Alfred C., Newman, N. Y. Sash-fastener	597,475	Jan. 18	1771	410	82	378
Wilcox, Arthur B., Meriden, Conn. Carpet-fastener	600,845	Mar. 15	2200	503	82	1678
Wilcox, Darius, Mechanicsburg, Pa. Fifth-wheel	603,070	Apr. 26	2566	582	83	531
Wilcox, Dutee, et al. (See Burrows, Frank L., assignor.)						
Wilcox, Dutee, et al. (See Greene, Albert L., assignor.)						
Wilcox, Ernest C. (See Egan, Lawton, and Wilcox.)						
Wilcox, Frederick W., Chicago, Ill. Folding-paper-box form	615,417	Dec. 6	380	90	85	1487
Wilcox, Harvey M., Owen Sound, Canada. Cutter-head	604,707	May 24	2725	623	83	1194
Wilcox, John F. (See Theisen, Joseph P., assignor.)						
Wilcox, John M., et al. (See Platt, Albert L., assignor.)						
Wilcox, Lewis C., Way Cross, Ga. Wagon-pole coupling	608,815	Aug. 9	1187	278	84	904
Wilcox, Lewis T., Lansing, Mich. Burner	609,485	Aug. 23	2471	577	84	1183
Wilcox, Walter H., St. Louis, Mo. Filter	598,191	Feb. 1	208	48, 49	82	642
Wilcox, Walter H., assignor of one-half to F. C. Tabler, St. Louis, Mo. Filter	598,190	Feb. 1	207	48	82	641
Wilcox, William R., Steamboat Springs, Colo. Wagon-jack	599,432	Feb. 22	2383	560	82	1113
Wild, William E., Denver, Colo. Ore-concentrator	607,389	July 12	1410	301 302	84	290
Wilde, Charles T., and C. W. Hinchcliffe, Lawrence, Mass. Roundabout	604,164	May 17	1716	387	83	983
Wilde, Daniel, Washington, Iowa. End-gate	600,567	Mar. 15	1739	397	82	1589
Wilde, Percy R., Bath, England. Utilizing flames of gas-burners or the like for heating purposes	616,564	Dec. 27	2516	582	85	1956
Wilder, Edgar A., Fredonia, N. Y. Filter	600,939	Mar. 22	2360	535 536	82	1721
Wilder, Norman B., Prophetstown, Ill. Baling-press	615,602	Dec. 6	709	163 164	85	1552
Wilder, Norman B., Lyndon, assignor of one-half to H. E. Paddock and W. F. Millikan, Prophetstown, Ill. Baling-press	608,563	Aug. 2	695	158	84	794
Wilder, William H., Northampton, Mass. Wick-raiser	612,886	Oct. 25	2328	554	85	488
Wilder, William H., Northampton, Mass. Oil-stove	612,887	Oct. 25	2330	554 555	85	489
Wilder, William H., Gardner, Mass. Oil-stove	616,218	Dec. 20	1859	430	85	1806
Wilder, William J., St. Louis, Mo. Plating sheet metal	602,532	Apr. 19	1627	371	83	339
Wilder, William J., St. Louis, Mo. Plating metals	604,201	May 17	1791	—	83	998
Wildermann, Meyer, and R. L. Mond, London, England. Chronograph	598,042	Jan. 25	2727	637	82	578
Wildermuth, La Fayette, Columbus, Ohio. Bath-cabinet	599,953	Mar. 1	518	117 118	82	1311
Wildermuth, La Fayette, Columbus, Ohio. Grass-receptacle for lawn-mowers	607,899	July 26	2546	540	84	546
Wildman, Frank B., Norristown, Pa., assignor to McMichael & Wildman Manufacturing Company, of Pennsylvania. Take-up for knitting-machines	600,568	Mar. 15	1741	397	82	1590



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Wildman, Frank B., Norristown, Pa., assignor to McMichael & Wildman Manufacturing Company, of Pennsylvania. Tension-take-up device for knitting-machines	601,297	Mar. 29	2999	678	82	1871
Wildman, Frank B., Norristown, Pa., assignor to McMichael & Wildman Manufacturing Company, of Pennsylvania. Knitting-machine	604,100	May 17	1608	361	83	962
Wildman, Frank B., Norristown, Pa., assignor to McMichael & Wildman Manufacturing Company, of Pennsylvania. Knitting-machine	613,346	Nov. 1	222	51, 52	85	659
Wildman, Frank C., and S. E. Allen, Waltham, Mass. Device for making circles	601,455	Mar. 29	3269	738	82	1921
Wildman, George, assignor of one-half to Cooper, Box & Co., Limited, London, England. Hat	611,983	Oct. 4	672	163	85	131
Wildman, John W., Brooklyn, N. Y. Toy pistol	599,135	Feb. 15	1817	431	82	981
Wildman, William, Spadra, Cal. Land-roller	602,968	Apr. 26	2395	546	83	500
Wiler, Lucien M., Philadelphia, Pa. Gun-rack	602,177	Apr. 12	1027	225	83	207
Wiles, James A. (See Turner and Wiles.)						
Wiley, Edgar C., assignor of one-half to H. E. McWane, Lynchburg, Va. Cut-off valve	607,975	July 26	2677	572	84	571
Wiley, Edmund W., Jr., Le Compte, La. Cane-loading machine	599,754	Mar. 1	141	32, 33	82	1242
Wiley, Harvey W., Washington, D. C., assignor of one-half to Marsden Company, Philadelphia, Pa. Manufacture of alcohol	615,376	Dec. 6	296	68	85	1470
Wiley, James T., Preston, Ill. Bicycle-brake	611,541	Sept. 27	2570	592	84	1987
Wiley, Lewis C., Smiley, Tex. Tire-bolt wrench	598,831	Feb. 8	1288	311	82	864
Wilgus, Daniel C., Los Angeles, Cal. Oil-burner	614,194	Nov. 15	1693	389	85	983
Wilgus, William, Lafayette, Ind. Ditching-machine	616,382	Dec. 20	2172	506	85	1869
Wilhelm, Edward, and W. F. Richards, assignors to C. M. Gould, Buffalo, N. Y. Electric-lighting apparatus for cars	604,101	May 17	1611	361 362	83	963
Wilhelm, George, and J. F. McGovern, Kokomo, Ind. Coffee or tea pot handle	609,527	Aug. 23	2536	594	84	1194
Wilhelm, Joseph, Wheaton, Minn. Cattle-guard gate for railways	614,915	Nov. 29	3035	695	85	1264
Wilhelm, Thomas M. (See Stettler and Wilhelm.)						
Wilhelmi, Valentin, Paterson, N. J. Range-boiler	602,650	Apr. 19	1831	417	83	376
Wilkins, John D., assignor to J. N. Crouse, Chicago, Ill. Dental engine	610,214	Sept. 6	111	25	84	1462
Wilkin, William M., Erie, Pa. Band-saw mill	616,219	Dec. 20	1860	430	85	1806
Wilkin, William M., Erie, Pa. Mechanism for oscillating gang-saws	616,220	Dec. 20	1863	431	85	1807
Wilkins, William T., Grimes Landing, Cal. Grain-saving attachment for threshing-machines	597,630	Jan. 18	2019	472	82	428
Wilkinson, Anna C. (See Wilkinson, Thomas A. and A. C.)						
Wilkinson, Anna C., et al. (See Grove and Stover, assignors.)						
Wilkinson, Charles A., et al. (See Burrows, Frank L., assignor.)						
Wilkinson, Charles A., et al. (See Greene, Albert L., assignor.)						
Wilkinson, Edward F., New York, N. Y. Curtain-holder	605,036	May 31	3276	752	83	1319
Wilkinson, Eleazer T., Philadelphia, Pa. Automatic rheostat	615,418	Dec. 6	381	91	85	1487
Wilkinson, Francis A., Ottawa, Kans. Heating stove or furnace	599,377	Feb. 22	2258	535	82	1087
Wilkinson, Frederick A. (See Wilkinson, Thomas A. and F. A.)						
Wilkinson, Frederick A., et al. (See Grove and Stover, assignors.)						
Wilkinson, Helen A., et al. (See Grove and Stover, assignors.)						
Wilkinson, Henry E., Mount Vernon, Ohio. Battery-electrode	608,537	Aug. 2	649	146	84	783
Wilkinson, Irvine. (See Wilkinson, Walter and I.)						
Wilkinson, John W., Winhill, and R. Chaplin, London, England. Means for attaching air-pumps or inflators to frames of velocipedes	612,449	Oct. 18	1513	364	85	315
Wilkinson, Samuel I., et al. (See Grove and Stover, assignors.)						
Wilkinson, Theodore S., Myrtle Grove, La. Means for protecting shores or building jetties	600,467	Mar. 8	1540	354	82	1532
Wilkinson, Thomas A., et al. (See Grove and Stover, assignors.)						
Wilkinson, Thomas A. and A. C., Cincinnati, Ohio, assignors of two-thirds to G. A. A. Deane, Little Rock, Ark., and G. D. Meiklejohn, Washington, D. C. Umbrella	612,291	Oct. 11	1246	299 300	85	251
Wilkinson, Thomas A. and F. A., Cincinnati, Ohio, assignors of two-thirds to G. A. A. Deane, Little Rock, Ark., and G. D. Meiklejohn, Washington, D. C. Umbrella	612,292	Oct. 11	1247	300	85	251
Wilkinson, Walter and I., Philadelphia, Pa. Brush	607,105	July 12	887	191	84	190
Wilkinson, Walter S., Baltimore, Md. Treating asphalt	597,892	Jan. 25	2472	82	82	530
Wilkinson, William, Birmingham, England. Tube for cycle construction or like purposes	616,596	Dec. 27	2562	593	85	1963
Wilkinson, William E. (See Clement and Wilkinson.)						
Wilkinson, William T., Lafayette, Colo. Metallic railway-tie	602,789	Apr. 19	2068	469	83	422
Will, Frederick, and A. B. Clunies, assignors to Sill Stove Works, Rochester, N. Y. Stove or range	598,548	Feb. 8	821	196	82	776
Willard, Ben, Schenectady, N. Y., assignor to General Electric Company, of New York. Insulator	606,830	July 5	367	77	84	73
Willard, Frank H. (See Tuttle, George H., assignor.)						
Willard, William N. (See Armstrong and Willard.)						
Willats, Arthur C., Buffalo, N. Y. Filter	604,950	May 31	3133	720	83	1292
Willatt, Norris F., assignor of two-thirds to G. B. Cooper and O. Barnett, London, England. Velocipede	616,383	Dec. 20	2174	506 507	85	1869
Willbur, James M., New York, N. Y. Curtain-rod	613,542	Nov. 1	585	135	85	727
Willbur, James M., New York, N. Y. Curtain-ring	613,543	Nov. 1	586	135	85	727
Willcox, Charles H., New York, N. Y., C. Carleton, Providence, R. I., and S. Borton, Brooklyn, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine	603,988	May 10	1334	305 306	83	876
Willcox, Charles H., New York, N. Y., J. E. A. Gibbs, Raphine, Va., and S. Borton, Brooklyn, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine	603,989	May 10	1339	307	83	877
Willcox & Gibbs Sewing Machine Company. (See Borton, Stockton, assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox, Carleton, and Borton, assignors.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox, Gibbs, and Borton, assignors.)						
Willerton, William, and T. Shortliff, Kipp, Mont. Rotary engine	604,641	May 24	2601	594	83	1170
Willett, Chalmer O. (See Gore, William M., assignor.)						
Willets, Joseph C., New York, assignor to T. C. Dexter, Pearl River, N. Y. Sheet-separating device for paper-feeding machines	616,043	Dec. 13	1502	351	85	1719
Willets, Reuben, Beaver Falls, Pa. Governor for gas-engines	601,190	Mar. 22	2777	636	82	1800
Willey, Guy L. (See Linke and Willey.)						
Willey, John P., New York, N. Y. Duster	597,158	Jan. 11	1228	289	82	255
Willi, Theodore, Dayton, assignor of one-half to D. H. Allen, Miamisburg, Ohio. Hydrocarbon-oil burner	612,888	Oct. 25	2331	555	85	489
William Mann Company. (See Leslie, Leon M., assignor.)						
William Powell Company. (See Powell, James, assignor.)						
William Wharton, Jr., & Company, Incorporated. (See Samuel, Edward, assignor.)						
Williams, Abraham C., Gravett, Ark. Spark-arrester	609,066	Aug. 16	1679	399	84	1012
Williams, Adolphus, et al. (See Fader, Silas, assignor.)						
Williams, Agnes W., et al. (See Gannoe, Thomas A., assignor.)						
Williams, Albert J., J. J. Thomas, and M. Richards, Uniontown, Pa. Window lock and operator	605,569	June 14	926	217	83	1551



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Williams, Ambrosine, Salem, Mo. Combined lunch basket and table .....	597,662	Jan. 18	2071	485 486	82	498
Williams, Bartholomew S., Aurora, Mo. Refrigerator .....	612,983	Oct. 25	2476	590	85	519
Williams, Charles N. (See Donaldson, Owen, and Williams.) .....						
Williams, Charles W., U. S. Army. Military shelter-tent and clothing-roll combined .....	596,767	Jan. 4	554	127	82	106
Williams, Charlie B., Knoxville, Tenn. Double-shovel plow .....	597,045	Jan. 11	1032	243	82	217
Williams, David S., Philadelphia, Pa. Acetylene-gas lamp .....	614,592	Nov. 22	2441	556	85	1134
Williams, David S., Philadelphia, Pa. Acetylene-gas generator .....	614,593	Nov. 22	2442	557	85	1134
Williams, Edgar L., Peoria, Ill. Game apparatus .....	601,863	Apr. 5	474	96	83	88
Williams, Edward, Chester, England. Guard for circular saws .....	611,725	Oct. 4	243	58, 59	85	50
Williams, Edward H., <i>et al.</i> (See Austin, William L., assignor.) .....						
Williams, Edward H., <i>et al.</i> (See Vauclain, Samuel M., assignor.) .....						
Williams, Edwin F., New York, N. Y. Fluid-motor governor .....	605,241	June 7	338	78	83	1415
Williams Electric Company. (See Williams, Joseph A., assignor.) .....						
Williams, Eli P. (See Simpson, Williams, and Simpson.) .....						
Williams, Eli P., McPherson, Kans. Pumping apparatus .....	615,331	Dec. 6	189	48	85	1450
Williams, Emily W. (See Williams, Isaac C., assignor.) .....						
Williams, Eran, <i>et al.</i> (See Middlekauff, Ellsworth D., assignor.) .....						
Williams, Fannie F., <i>et al.</i> (See Jobson, Edward C., assignor.) .....						
Williams, Fillmore, Columbus, Ohio, assignor to O. W. Aldrich and C. W. Critchfield. Railway-signal .....	602,676	Apr. 19	1888	430	83	388
Williams, Frank, and W. H. Quicksall, Stewardson, Ill. Traction-wheel .....	609,717	Aug. 23	2885	674	84	1262
Williams, Frank E. (See Moore, Frank S., assignor.) .....						
Williams, Frank M. (See Brown and Williams.) .....						
Williams, Frank M. (See Durfee and Williams.) .....						
Williams, Frank T., assignor to Edward Miller & Company, Meriden, Conn. Lamp-burner .....	598,688	Feb. 8	1072	258	82	823
Williams, Frank T., assignor to Edward Miller & Company, Meriden, Conn. Lamp .....	614,916	Nov. 29	3036	695	85	1264
Williams, Franklin A., <i>et al.</i> (See Bray, Edward W., assignor.) .....						
Williams, Fred D., Cooperstown, N. D. Potato-planter .....	612,080	Oct. 11	873	212	85	181
Williams, George G., Charlevoix, Mich. Trousers-hanger .....	608,092	July 26	2893	619	84	617
Williams, George H., <i>et al.</i> (See Talley, William H., assignor.) .....						
Williams, George H., Los Angeles, Cal. Non-refilling bottle .....	602,811	Apr. 19	2117	477	83	431
Williams, George H., Newton, Mass. Bicycle-support .....	603,519	May 3	514	112 113	83	699
Williams, George R., Albany, Mo. Date-type holder .....	613,832	Nov. 8	1088	248	85	843
Williams, Harry, assignor to Morrison Battery Company, Cleveland, Ohio. Means for controlling voltage and volume of electrical currents .....	610,509	Sept. 6	693	156	84	1572
Williams, Harvey D., Ithaca, N. Y., H. G. Hoadley, Waterbury, Conn., and E. C. Lewis, Woonsocket, R. I.; said Williams and Lewis assignors to said Hoadley. Lever and ratch attachment .....	613,950	Nov. 8	1279	290 291	85	881
Williams, Henry A., Quincy, assignor to Putnam Nail Company, Boston, Mass. Machine for finishing forged horseshoe-nails .....	615,377	Dec. 6	297	69 70 71	85	1471
Williams, Henry F., assignor of one-half to J. J. Haley, San Francisco, Cal. Composite timber .....	598,127	Feb. 1	94	22	82	620
Williams, Henry M. (See Burger, Franz, assignor.) .....						
Williams, Henry M. (See Burger and Williams.) .....						
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Roadway .....	615,332	Dec. 6	191	48	85	1451
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Combined rail-joint and device for preventing spreading of rails .....	616,171	Dec. 20	1773	411	85	1789
Williams, Herbert B., Castle Gate, Utah. Lixiviation apparatus .....	608,945	Aug. 9	1429	337	84	949
Williams, Horace D. (See Kight, William K., assignor.) .....						
Williams, Horace D. (See Spitzmiller, John, assignor.) .....						
Williams, Ida, Wichita, Kans. Dress-chart .....	602,117	Apr. 12	913	199	83	185
Williams, Ira, Jamestown, N. Y. Trace-fastener .....	599,755	Mar. 1	142	33	82	1243
Williams, Isaac C., assignor to E. W. Williams, Philadelphia, Pa. Washstand .....	613,747	Nov. 8	945	216 217	85	817
Williams, James. (See Senior, William, assignor.) .....						
Williams, James, Salford, England. Apparatus for stripping flats of carding-engines .....	609,859	Aug. 30	3117	728	84	1321
Williams, James, Salford, England. Apparatus for stripping flats of carding-engines .....	609,860	Aug. 30	3118	729	84	1322
Williams, James, Salford, and P. H. Allsopp, Heaton Norris, England. Carding-engine .....	614,155	Nov. 15	1630	374	85	971
Williams, James H. (See McGregor and Williams.) .....						
Williams, James H., assignor to Remington & Sherman Company, Philadelphia, Pa. Bolt .....	610,638	Sept. 13	909	208 209	84	1632
Williams, Jenkin, and J. R. Rees, Pueblo, Colo. Fluid-pressure regulator .....	601,923	Apr. 5	572	119	83	109
Williams, John. (See Hulme and Williams.) .....						
Williams, John C. (See Dudley, John W., assignor.) .....						
Williams, John F., Kansas City, Kans., assignor to R. M. Snyder, Kansas City, Mo. Gas-generating gas-fixture .....	606,435	June 28	2620	604	83	1909
Williams, John M., Flatts, Bermuda. Lighthouse appliance .....	607,780	July 19	2282	482	84	477
Williams, John N., Derby, Conn. Type-writing machine .....	614,917	Nov. 29	3037	695 696	85	1264
Williams, John R., Baltimore, Md. Knife-sharpener .....	602,790	Apr. 19	2069	470	83	422
Williams, Joseph, Gowerton, and G. H. White, Pontardulais, England. Apparatus for separating metal plates or sheets .....	602,969	Apr. 26	2396	546 547	83	500
Williams, Joseph A., assignor to Williams Electric Company, Cleveland, Ohio. Gear-wheel .....	610,215	Sept. 6	113	25	84	1462
Williams, Joseph A., assignor to Williams Electric Company, Cleveland, Ohio. Binding-post for electrical telephonic or telegraphic instruments .....	616,755	Dec. 27	2875	666	85	2025
Williams, Justin J., Mount Jewett, Pa. Automatic lampblack-machine .....	601,389	Mar. 29	3152	711 712	82	1899
Williams, Lee H., assignor of one-half to McElwaine-Richards Company, Indianapolis, Ind. Water-heater .....	597,927	Jan. 25	2529	591	82	540
Williams, Leonidas R., Ozark, Mo. Display-rack for washboards .....	614,195	Nov. 15	1695	389	85	983
Williams, Lewis, Johnstown, Pa., assignor to Cambria Iron Company, of Pennsylvania. Spike-machine .....	600,052	Mar. 1	772	175 176 177 178	82	1365
Williams, Linfrid L., Wyncote, Pa. Back-pedaling brake .....	610,696	Sept. 13	996	231	84	1651
Williams, Louis N. D. (See Scott, Robert W., assignor.) .....						
Williams, Louis N. D., Ashbourne, and H. Swinglehurst, Jr., assignors to said Williams and R. W. Scott, Philadelphia, Pa. Circular-knitting machine .....	604,646	May 24	2609	597	83	1172
Williams, Lydia R., <i>et al.</i> (See Donaldson, Fred H., assignor.) .....						
Williams, Mahlon R., Rico, Colo. Automatic fire-extinguisher for passenger-coaches .....	610,508	Sept. 6	692	156	84	1572
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Breaking-machine .....	604,485	May 24	2336	529 530	83	1120



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Williams, Morris. (See Kohlbraker, Francis H., assignor.)						
Williams, Nathan S. (See Elder, Welker J., assignor.)						
Williams Patent Crusher and Pulverizer Company. (See Williams, Milton F., assignor.)						
Williams, Richard D., New York, N. Y. Door-securer	598,405	Feb. 1	567	138	82	711
Williams, Thomas F., Chicago, Ill., assignor to Chalfant Novelty Company, Kenosha, Wis. Match-igniting device	597,448	Jan. 18	1729	400	82	369
Williams, Thomas H., assignor of one-half to T. Wheeler, Utica, N. Y. Folding steps or stairs for lift-bridges	616,515	Dec. 27	2435	563	85	1941
Williams, William, and P. McMorro, New York, N. Y. Dumb-waiter	600,759	Mar. 15	2061	472	82	1651
Williams, William E. Chicago, Ill., assignor of one-half to W. Greene, Washington, D. C. Fence-post	607,314	July 12	1275	271	84	263
Williams, William E., assignor to C. E. Robinson, Chicago, Ill. Wire-fence machine	610,216	Sept. 6	114	26 27 28 29	84	1462
Williams, William E., Chicago, assignor to C. E. Robinson, Joliet, Ill. Machine for making woven-wire fencing	610,217	Sept. 6	129	30 31	84	1466
Williams, William E. H., and P. Seiler, San Francisco, Cal. Electric controller for gas-regulators	602,548	Apr. 19	1654	376	83	343
Williams, William F., London, England. Elastic tire	598,043	Jan. 25	2728	637	82	579
Williams, William F., London, England. Driving-gear for bicycles	599,211	Feb. 15	1938	459	82	1003
Williams, William F., London, England. Bicycle or tricycle	603,545	May 3	560	123	83	709
Williams, William F., London, England. Sociable bicycle	615,231	Nov. 29	3676	842 843	85	1389
Williams, William F., London, England. Bicycle-support	616,384	Dec. 20	2175	507	85	1869
Williams, William J., Portsmouth, Va. Foldable table attachment for beds	598,968	Feb. 15	1538	366	82	928
Williams, William L., Winona, Minn. Ice-velocipede	606,479	June 28	2686	619	83	1922
Williams, William T., Birmingham, Ala. Pipe or nut wrench	599,578	Feb. 22	2649	620	82	1163
Williams, Willis S., London, England. Pneumatic tire	605,532	June 14	859	201	83	1538
Williams, Wood, and S. C. Galbraith, Honey Grove, Tex. Combination plow and stalk-chopper	615,333	Dec. 6	193	48, 49	85	1451
Williamson Brothers Company. (See Hand, Harry W., assignor.)						
Williamson Brothers Company. (See Williamson, William C., assignor.)						
Williamson, Dwight W., Indianapolis, Ind. Veneer-machine	615,773	Dec. 13	1020	238 239 240	85	1625
Williamson, George H., Worcester, England. Loose cover and cutter for hermetically-sealed metallic boxes or cases	609,379	Aug. 16	2253	532 533	84	1123
Williamson, George W. (See Wimmer, Louis, assignor.)						
Williamson, Henry, London, England. Tobacco-pipe	599,433	Feb. 22	2384	560	82	1113
Williamson, Henry C., Michigan City, Ind. Dumping-car	616,693	Dec. 27	2774	645	85	2004
Williamson, Henry C., and H. Pries, Michigan City, Ind. Dumping-car	610,218	Sept. 6	144	31 32 33	84	1470
Williamson, James E., assignor to H. B. Anderson, New York, N. Y. Apparatus for purifying liquids	614,594	Nov. 22	2446	557 558	85	1135
Williamson, John, Chicago, Ill. Acetylene-gas generator	609,861	Aug. 30	3119	729	84	1322
Williamson, John H. (See Kernedy and Williamson.)						
Williamson, Russell B., Clifton Springs, N. Y. Handle for vessels	597,754	Jan. 25	2235	519	82	485
Williamson, Russell B., Clifton Springs, N. Y. Spraying device	612,081	Oct. 11	874	212	85	181
Williamson, William A., Newark, N. J. Cork-extractor	615,938	Dec. 13	1309	305 306	85	1679
Williamson, William C., assignor to Williamson Brothers Company, Philadelphia, Pa. Thrust-bearing for worm-gears	615,119	Nov. 29	3436	789	85	1341
Williamson, William C., assignor to Williamson Brothers Company, Philadelphia, Pa. Hydraulic transmitter for steering	616,756	Dec. 27	2877	666 667	85	2025
Willig, Joseph, Mulhouse, Germany. Pneumatic tire	600,342	Mar. 8	1323	302	82	1491
Willimon, William H., Greenville, S. C. Combined fertilizer-distributor and cultivator	613,101	Oct. 25	2667	630	85	557
Willing, Claude R., Nanticoke, Md. Jaw-trap for animals	616,172	Dec. 20	1775	411	85	1790
Willis, Eben, Colton, N. Y. Sap-spout	606,613	June 28	2928	679	83	1968
Willis, Warren C. (See Miller and Willis.)						
Williston, Belvin T. (See Park and Williston.)						
Williston, Benjamin F., Jackson, assignor of one-half to H. D. Miles and W. P. Harris, Detroit, Mich. Foundation-pier	603,354	May 3	188	43	83	638
Williston, Edward A., Boston, Mass. Clothes-drier	606,401	June 28	2550	590 591	83	1893
Willits, Frederick E., New York, N. Y. Wire netting or cloth holder	614,196	Nov. 15	1696	389	85	984
Willix, Enos B., Mount Vernon, Iowa. Fence-stay-wire-making machine	598,170	Feb. 1	102	39	82	634
Willix, Enos B., Mount Vernon, Iowa. Fence	605,570	June 14	928	217	83	1552
Willix, Enos B., Dysart, Iowa. Machine for applying vertical stay-wires in wire fences	600,569	Mar. 15	1743	397 398	82	1590
Willmarth, Charles A., Sand Hill, Mich. Wire-stay-weaving device	599,413	Feb. 22	2329	550	82	1101
Willoughby, Alfred B., Philadelphia, Pa. Water-feed for boilers	601,693	Apr. 5	123	24	83	26
Wills, Charles H., New Philadelphia, Ohio. Gear-casing for bicycles	599,884	Mar. 1	397	89	82	1289
Willson Aluminum Company. (See Chalmot, Guillaume de, assignor.)						
Willson, Freeman R., Jr., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyer	612,939	Oct. 25	2405	573	85	505
Willson, Thomas L., assignor to Electro Gas Company, New York, N. Y. Electric furnace	597,476	Jan. 18	1772	410 411	82	378
Wilmowsky, Erwin F. von, Boston, Mass., assignor of one-half to W. D. Edmonds, New York, N. Y. Filament for incandescent lamps	597,172	Jan. 11	1248		82	259
Wilmot, Frank A. (See Sangster, Charles, assignor.)						
Wilmot, William F., Utica, assignor of one-half to W. F. Tomlinson, Milton, Mich. Weather-strip for doors	610,219	Sept. 6	146	33	84	1471
Wilmsen, Bernhard, Philadelphia, Pa. Christmas-tree ornament	605,158	June 7	183	46	83	1385
Wilscheck, Georg, Fröndenber, Germany. Hand ruling apparatus	597,870	Jan. 25	2440	568	82	524
Wilson, Aaron H. (See Shaeffer, Edmund M., assignor.)						
Wilson, Albert, et al. (See Hockerson, Nels, Jr., assignor.)						
Wilson, Amos L. (See Wilson, Charles S., assignor.)						
Wilson, Anna R., Bridgeton, N. J. Coal-hod lifter and box or receiver for same	609,528	Aug. 23	2537	594	84	1195
Wilson, Carl F., West Bay City, Mich. Adjustable handle-bar for bicycles	598,299	Feb. 1	409	96	82	679
Wilson, Charles, Newport, Ky. Combined match-box and cigar or pipe lighter	607,722	July 19	2182	460	84	459
Wilson, Charles C., Greensborough, assignor of one-half to J. E. Heinzerling, Reidsville, N. C. Rotary engine	600,468	Mar. 8	1542	354	82	1532
Wilson, Charles F., Brooklyn, N. Y. Automatic tender for trolley-operating ropes	597,159	Jan. 11	1228	289	82	255
Wilson, Charles M., et al. (See Horton, Peter D., assignor.)						
Wilson, Charles S., near Macomb, Ill., assignor of one-half to A. L. Wilson, Keokuk, Iowa. Cart for transporting fodder, &c	611,542	Sept. 27	2572	593	84	1987



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Wilson & Co., J. H. (See Taylor, John H., assignor.)						
Wilson, Corydon L., J. W. Unger, C. Muma, A. P. Brosius, and J. C. Kuchel, Holstein, Iowa. Acetylene-gas generator	598,213	Feb. 1	255	56	82	650
Wilson, Corydon L., C. Muma, J. W. Unger, H. Schneekloth, A. P. Brosius, and J. C. Kuchel, Holstein, Iowa. Method of and apparatus for producing calcium carbid	601,366	Mar. 29	3112	702 703	82	1892
Wilson, Corydon L., C. Muma, J. W. Unger, H. Schneekloth, A. P. Brosius, and J. C. Kuchel, Holstein, Iowa. Electric furnace for manufacturing calcium carbid	601,367	Mar. 29	3115	703	82	1892
Wilson, Curtis S., Forest, Ohio. Incubator	611,543	Sept. 27	2573	593	84	1987
Wilson, David, Fort Gay, W. Va. Clothes-pin	602,970	Apr. 26	2398	547	83	500
Wilson, David, assignor to McMullen Woven Wire Fence Company, Chicago, Ill. Gate	597,449	Jan. 18	1730	400	82	369
Wilson, David M., Kemp, Tex. Gin-saw filer	601,191	Mar. 22	2779	636	82	1800
Wilson, Edward, Exeter, England. Means for controlling draft of furnaces	613,544	Nov. 1	586	135	85	728
Wilson, Elmer E. (See Uncapher, Joseph W., assignor.)						
Wilson, Elwood, Noblesville, Ind. Ribbon-clasp	609,486	Aug. 23	2474	577	84	1183
Wilson, Frank C., Aurora, Ill. Stove	602,118	Apr. 12	914	199	83	185
Wilson, Freeman P., assignor of one-half to G. W. Sawyer, Minneapolis, Minn. Bicycle-support	614,642	Nov. 22	2536	578	85	1152
Wilson, George B. (See Mahan, Patrick F., assignor.)						
Wilson, George E., et al. (See Hockerson, Nels, Jr., assignor.)						
Wilson, George E., Stillwater, Minn. Rope drive mechanism	601,110	Mar. 22	2636	602	82	1774
Wilson, George H. (See Elliott, James R., assignor.)						
Wilson, George R., Austin, Minn. Toaster	610,668	Sept. 13	952	220	84	1641
Wilson, George T. (See D'Esté and Wilson.)						
Wilson, George T., Somerville, assignor of three-fourths to J. D'Este, Salem, and E. Webb, Reading, Mass. Faucet	615,939	Dec. 13	1315	306	85	1680
Wilson, Harry L., Erie, Pa. Manhole and cover therefor	606,949	July 5	544	120	84	108
Wilson, Harvey C., Birmingham, Mich. Railway safety-gate	606,259	June 28	2290	530	83	1844
Wilson, Herbert G., et al. (See Bernardin and Pattenau, assignors.)						
Wilson, Ira J., Pittsburg, Pa. Shaft-coupling and cycle-hanger	599,434	Feb. 22	2385	560	82	1113
Wilson, J. N., et al. (See Gibbs, James E., assignor.)						
Wilson, James, London, England. Filter	606,260	June 28	2291	530 531	83	1844
Wilson, James C. I., Chicago, Ill. Copy-holder	598,689	Feb. 8	1073	259	82	823
Wilson, James E., Bridgeport, Conn. Bicycle	606,797	July 5	304	63, 64	84	60
Wilson, James G., New York, N. Y. Cornice for rolling shutters	596,929	Jan. 4	821	195	82	160
Wilson, James G., New York, N. Y. Means for operating and supporting Venetian blinds	597,046	Jan. 11	1033	244	82	217
Wilson, James G., New York, N. Y. Venetian awning-blind	614,595	Nov. 22	2448	558	85	1135
Wilson, James H. (See Hitch, William S., assignor.)						
Wilson, James H., et al. (See Hutchison, Reese, assignor.)						
Wilson, James N., Minneapolis, Minn. Two-horse evener	609,065	Aug. 16	1677	399	84	1012
Wilson, James P., Newark, N. J. Bunsen burner	612,959	Oct. 25	2438	531	85	511
Wilson, James T., Brooklyn, N. Y. Bicycle	600,664	Mar. 15	1899	433	82	1620
Wilson, John D., Heron Lake, Minn. Sled attachment	613,102	Oct. 25	2668	631	85	557
Wilson, John E. (See Kenney, Augustine, assignor.)						
Wilson, John T., Jersey Shore, Pa. Balanced valve	605,943	June 21	1669	382	83	1707
Wilson, John T., Jersey Shore, Pa. Pneumatic tire	616,516	Dec. 27	2437	563 564	85	1941
Wilson, John T., Pittsburg, assignor of one-half to H. E. Passavant, Philadelphia, Pa. Car-coupling	597,699	Jan. 18	2142	500	82	449
Wilson, John W., Manchester, N. H. Swing-seat for drays	614,596	Nov. 22	2449	558	85	1136
Wilson, John W. and W. W., Dallas, Tex. Air-tight heating-stove	605,037	May 31	3277	753	83	1319
Wilson, Joseph A., Chicago, Ill. Drilling-machine	613,748	Nov. 8	948	217	85	517
Wilson, Joseph R. (See Wanamaker, Henry W., assignor.)						
Wilson, M. D. (See Gravis, John B., assignor.)						
Wilson, Merrick F., Chicago, Ill. Paper-box-covering machine	599,885	Mar. 1	400	89	82	1289
Wilson, Nelson, assignor of one-third to C. Bolen, Portland, Oreg. Machine for restoring insulated wire	601,694	Apr. 5	125	24	83	27
Wilson, Richard, New York, N. Y. Door-saddle	600,984	Mar. 22	2433	556	82	1734
Wilson, Robert, Govan, Scotland. Apparatus for separating liquids from granular materials	607,723	July 19	2184	461	84	459
Wilson, Robert, Newark, N. J., assignor, by mesne assignments, to Aladdin Lamp Company, of New Jersey. Toy or puzzle	601,924	Apr. 5	574	119	83	109
Wilson, Robert A., assignor of two-thirds to H. A. Cronah and W. P. Hall, Canton, Ohio. Annealing-box	613,001	Oct. 25	2504	596	85	525
Wilson, Robert H. T. (See Messick, Joseph S., assignor.)						
Wilson, Robert J., Seattle, Wash. Lamp-burner	612,621	Oct. 18	1831	434	85	375
Wilson, Samuel H., Pittsburg, Pa. Attachment for tables	597,755	Jan. 25	2236	520	82	485
Wilson, Samuel K. (See Burchell, Robert T., assignor.)						
Wilson, Samuel T., assignor to himself and W. W. Branch, Charleston, W. Va. Rotary engine	607,205	July 12	1063	230	84	222
Wilson, Thomas, Philadelphia, Pa., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Gas-burner	604,102	May 17	1612	362	83	963
Wilson, Thomas, assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Welsbach or other incandescent light	615,658	Dec. 6	818	189	85	1574
Wilson, Thomas B., Springfield, Mass., assignor to C. E. Billings, Hartford, Conn. Magazine bolt-gun	609,600	Aug. 23	2660	621 622	84	1218
Wilson, Thomas B., Springfield, Mass., assignor to C. E. Billings, Hartford, Conn. Magazine bolt-gun	609,601	Aug. 23	2665	622 623	84	1218
Wilson, Thomas E., Farmland, Ind. Handle-fastener or shank-lock	604,510	May 24	2376	541	83	1128
Wilson, Volney M., Jr., assignor of one-half to C. H. Kittredge, Providence, R. I. Aerial toy	608,500	Aug. 2	586	131	84	771
Wilson, William. (See Milner and Wilson.)						
Wilson, William, Oakland, Cal. Bottle	601,848	Apr. 5	448	90	83	83
Wilson, William A., Centropolis, Kans. Corn-header	603,934	May 10	1256	285	83	861
Wilson, William P., Trenton, N. J. Combined hose-pipe nozzle and spraying device	603,750	May 10	914	202	83	795
Wilson, William S., assignor to Gould Bicycle Company, Limited, Brantford, Canada. Back-pedaling brake	597,347	Jan. 11	1534	358	82	315
Wilson, William S., assignor to Gould Bicycle Company, Limited, Brantford, Canada. Oil-cup	598,044	Jan. 25	2729	637	82	579
Wilson, William T., Buffalo, N. Y. Car-coupling	600,995	Mar. 22	2455	559	82	1739
Wilson, William W. (See Wilson, John W. and W. W.)						
Wilson, William W., Holyoke, Mass. Filter	604,573	May 24	2493	567	83	1149
Wilson, Wyle T., Philadelphia, Pa., and G. E. Grimm, Camden, N. J. Machine for manufacturing continuous spiral tubing	616,044	Dec. 13	1503	351 352	85	1719
Wilt, Frank D., Allentown, Pa. Ball-bearing	601,298	Mar. 29	3001	678	82	1871



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Wiman, William D., Moline, Ill. Molding-machine	607,152	July 12	973	210 211	84	205
Wimmer, Louis, assignor of one-half to G. W. Williamson, Elizabeth, N. J. Looping-machine	614,069	Nov. 8	1469	337	85	920
Wimpenny, Abel B., Hayfield, Englad. Apparatus for washing printers' blankets, &c.	611,161	Sept. 20	1841	424	84	1831
Winand, Paul A. N. (See Billberg and Winand.)						
Winand, Paul A. N., assignor to Otto Gas Engine Works, Philadelphia, Pa. Screw-propeller	606,322	June 28	2398	555	83	1865
Winchel, William R. (See Stewart and Winchel.)						
Winchell, Charles B., assignor to Winchell & Hutchinson, New York, N. Y. Band-saw clamp and filing-guide	602,205	Apr. 12	1076	236	83	216
Winchell & Hutchinson. (See Winchell, Charles B., assignor.)						
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Grinding-mill	610,729	Sept. 13	1056	242	84	1664
Winchester, Benjamin T., Baltimore, Md. Hypodermic syringe	609,982	Aug. 30	3355	779	84	1367
Winchester Repeating Arms Company. (See Bennett, Thomas G., assignor.)						
Winchester Repeating Arms Company. (See Bennett and Mason, assignors.)						
Winchester Repeating Arms Company. (See Browning, John M., assignor.)						
Winchester Repeating Arms Company. (See Johnson, Thomas C., assignor.)						
Winchester Repeating Arms Company. (See Johnson and Brewer, assignors.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Winckhofer, Charles, <i>et al.</i> (See Ogden, Frederick H., assignor.)						
Wincoz, Grégoire, and H. Machepy, Soignies, Belgium. Machine for cutting stone	602,890	Apr. 26	2246	511	83	471
Winder, Will H., Carthage, Ohio. Indicator. (Reissue)	11,670	June 21	2112	485 486	83	1789
Windle, John E., Worcester, Mass. Cloth-winding machine	608,817	Aug. 9	1191	278	84	905
Windle, John E., Worcester, Mass. Cloth-measuring machine	608,818	Aug. 9	1192	278	84	905
Windrath, Hugo B., Buffalo, N. Y. Toy	612,622	Oct. 18	1832	435	85	375
Windsor, Charles. (See Adkins and Windsor.)						
Windsor Company. (See Carter, Stewart F., assignor.)						
Wine, Miletus J. (See Thompson, Charles A., assignor.)						
Wine, Miletus J., Washington, D. C. Measuring-pump	597,477	Jan. 18	1775	411	82	378
Wine, Miletus J., and C. A. Thompson, Washington, D. C.; said Thompson assignor to said Wine. Letter-box	605,592	June 14	970	224	83	1559
Winegard, Clarence L., Richmondville, N. Y. Railway-rail joint	602,382	Dec. 17	1367	306	83	275
Wing, Arthur L., and A. Norton, Boston, Mass. Ironing-machine	612,762	Oct. 18	2079	492 493	85	422
Wing Button Sewing Machine Company. (See Wing, Frank A., assignor.)						
Wing Button Sewing Machine Company. (See Wing, Lingan C. and F. A., assignors.)						
Wing, Dwight R., assignor of one-half to K. Fleming, Little Rock, Ark. Railway-spike	612,538	Oct. 18	1658	394	85	342
Wing, Edward J., Centre Hill, Fla. Colter	609,862	Aug. 30	3120	729	84	1322
Wing, Frank A. (See Wing, Lingan C. and F. A.)						
Wing, Frank A., Somerville, assignor to Wing Button Sewing Machine Company, Boston, Mass. Button-sewing machine	616,173	Dec. 20	1776	411 412 413	85	1790
Wing, Herbert H., Buffalo, N. Y. Manufacturing graphite	598,549	Feb. 8	822	197	82	776
Wing, Herbert H., Buffalo, N. Y. Rotary drier	600,959	Mar. 22	2389	545	82	1726
Wing, Herbert H., Buffalo, N. Y. Rotary drier	603,355	May 3	189	43	83	638
Wing, Levi J., New York, N. Y. Gas-engine	607,580	July 19	1940	402 403	84	413
Wing, Lingan C., Boston, Mass., and F. A. Wing, Providence, R. I., assignors to Wing Button Sewing Machine Company, Boston, Mass. Sewing-machine for barring and tacking	601,390	Mar. 29	3154	712 713 714	82	1899
Wingard, Charles L., assignor of one-half to L. H. Wingard, Walla Walla, Wash. Insulator	607,315	July 12	1276	272	84	263
Wingard, Edwin V., Philadelphia, Pa. Limekiln	611,402	Sept. 27	2319	535	84	1939
Wingard, Luella H. (See Wingard, Charles L., assignor.)						
Winger, Oswald E., assignor to R. D. Small, Chicago, Ill. Window pane or light	607,792	July 19	2304	486	84	481
Wingert, Henry L., Montpelier, Ohio. Hot-air furnace	606,752	July 5	220	47, 48	84	45
Winget, Joshua W., Huntington, W. Va. Corner-fastening for desk-pads, &c	616,385	Dec. 20	2177	508	85	1870
Wingett, Fernando C., and A. J. Blackwood, Sterling, Kans. Vapor-burner for stoves	613,347	Nov. 1	229	52	85	661
Winkelmann, Johann F. A., Schell City, Mo. Nailless horseshoe	599,085	Feb. 15	1725	409	82	966
Winkenwerder, Henry. (See Gibbs, Johnson, and Winkenwerder.)						
Winkenwerder, Henry. (See Johnson and Winkenwerder.)						
Winkler, George J., assignor to P. Reusch, Dunellen, and E. C. Reusch, South Orange, N. J. Lamp-chimney	613,482	Nov. 1	499	112	85	710
Winkler, Olof, Helsingborg, Sweden. Fountain-pen	605,804	June 14	1371	315	83	1633
Winkley, Erastus E., Lynn, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Sole-leveling machine	610,314	Sept. 6	332	71	84	1505
Winkley, Erastus E., Lynn, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Mechanism for adjusting forms of sole-laying machines	610,315	Sept. 6	334	72	84	1505
Winkley, Frank D., Madison, Wis. Oil-hole cover or cap	608,243	Aug. 2	132	33	84	681
Winkley, Frank D., Madison, Wis. Oil-hole cover or cap	608,244	Aug. 2	134	33	84	681
Winne, William I., assignor of one-half to W. I. Winne, Jr., Albany, N. Y. Machine for straightening and cutting wires	597,211	Jan. 11	1313	306	82	270
Winnikes, Rudolph, Berlin, Germany. Combined carbonic-acid receiver and pressure-regulating mechanism	613,810	Nov. 8	1060	241	85	838
Winona Wagon Company. (See Hennessy, James F., assignor.)						
Winqvist, Franz O., and E. Olsson, Oakland, Cal. Water-cycle	612,920	Oct. 25	2375	566	85	498
Winslow, Francis A. (See Winslow, William H. and F. A.)						
Winslow, Lenna R., Kansas City, Mo. Voting-machine	611,403	Sept. 27	2320	535 536	84	1939
Winslow, William H., Chicago, Ill. Metal-bound board	613,896	Nov. 8	1198	274	85	865
Winslow, William H. and F. A., Chicago, Ill. Building construction	609,487	Aug. 23	2475	578	84	1183
Winsor & Newton. (See Taylor, John S., assignor.)						
Winsor, Robert P., Auburn, R. I. Cloth-clamp for textile machinery	604,103	May 17	1614	362	83	964
Winsor, William S., St. Louis, Mo. Chain-propeller	599,050	Feb. 15	1677	397	82	957
Winston, Ernest. (See Allen and Winston.)						
Winter, Albert. (See Skoglund, Jean V., assignor.)						
Winter, Carl, Mansfield, Germany. Beehive	611,746	Oct. 4	271	65	85	56
Winter, Emma B., New York, N. Y. Belt-buckle	606,107	June 21	1987	456	83	1766
Winter, Friedrich R., Chicago, Ill. Ironing-table	612,082	Oct. 11	875	212	85	182
Winter, George B., <i>et al.</i> (See Pullman, John, assignor.)						
Winter, Henry W., Boston, Mass. Heel-nailing machine	611,370	Sept. 27	2249	520 521 522	84	1927
Winter, Henry W., Boston, Mass. Heel-trimming machine	611,371	Sept. 27	2262	523	84	1929



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Winter, John H., Brooks, Ill. Land-marker	602,119	Apr. 12	915	199 200	83	185
Winter, Rudolph G., Minneapolis, Minn. Separable suspension-hinge	610,010	Aug. 30	3402	788	84	1377
Winter, William E., assignor of one-half to H. H. Corbin, deceased, (M. A. Corbin, executrix,) and W. P. Corbin, New Britain, Conn. Mailing-package	616,045	Dec. 13	1506	352	85	1720
Winters, Charles and W. E., White Lake, N. Y. Oil-receptacle	600,327	Mar. 8	1298	297	82	1487
Winters, David L., Chicago, Ill. Driving and steering attachment for bicycles	597,348	Jan. 11	1536	358	82	315
Winters, David L., Chicago, Ill. Fire-escape	605,686	June 14	1153	267	83	1592
Winters, Frederick V., New York, N. Y. Coupling-nut for stand-boilers	607,316	July 12	1277	272	84	263
Winters, Frederick V., assignor of one-half to J. A. York, New York, N. Y. Stand for stand-boilers	600,903	Mar. 22	2300	524	82	1709
Winters, George D., Reno, Nev. Barricade-alarm for doors	605,366	June 7	602	134	83	1466
Winters, George T., Cameron, W. Va. Washing-machine	611,306	Sept. 27	2126	491	84	1904
Winters, Harry T., Wheeling, W. Va. Device for polishing curved surfaces	597,518	Jan. 18	1840	426	82	392
Winters, Sarah, Seattle, Wash. Sleeping-bag	613,545	Nov. 1	588	135	85	728
Winters, William E. (See Winters, Charles and W. E.)						
Wintherlich, Hans J., assignor to Omaha Air Scale Company, Omaha, Nebr. Air-scale	599,378	Feb. 22	2262	536	82	1082
Winton, Alexander, Cleveland, Ohio. Explosive-engine	598,832	Feb. 8	1289	312	82	864
Winton, Alexander, Cleveland, Ohio. Explosive-engine	600,819	Mar. 15	2151	492	82	1668
Winton, Alexander, Cleveland, Ohio. Bicycle	607,106	July 12	888	191	84	190
Winton, Alexander, Cleveland, Ohio. Explosive-engine	610,465	Sept. 6	607	136	84	1555
Winton, Alexander, Cleveland, Ohio. Motor-vehicle	610,466	Sept. 6	609	136 137	84	1555
Wintrobe, Charles E., Huntington, Ind. Wire-weaving machine	598,045	Jan. 25	2730	637 638	82	579
Wintrobe, Charles E., Huntington, Ind. Wire fence	601,540	Mar. 29	3408	773	82	1951
Wintrobe, Charles E., Huntington, Ind. Fence-stay-wire lock	603,804	May 10	1015	227	83	815
Wire Bound Box Company. (See Uhri, Jacob, assignor.)						
Wire Grip Fastening Company. (See Horton, James A., assignor.)						
Wire Grip Fastening Company of Maine. (See Cutter, Solomon M., assignor.)						
Wireback, John F., Scranton, Pa. Filter	601,785	Apr. 5	315	62	83	60
Wirley, John R. (See Brennan, Wirley, and Goldthwait.)						
Wirsching, Aloys, New York, N. Y. Printing-telegraph	613,348	Nov. 1	231	52, 53	85	661
Wirsching, Philipp, Salem, Ohio. Penholder	612,889	Oct. 25	2333	555	85	489
Wirt, Charles, Philadelphia, Pa. Rheostat	615,419	Dec. 6	383	91, 92	85	1487
Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company, of New York. System of electric metering	602,925	Apr. 26	2324	528	83	486
Wirt, John L., Washington, D. C. Bag or box	605,038	May 31	3279	753	83	1320
Wirth, Henry, assignor of one-half to C. Drosch, Maiden, Mont. Button	611,881	Oct. 4	502	121	85	100
Wirth, Karl, Nuremberg, Germany. Apparatus for plate-glass pictures	596,672	Jan. 4	378	85	82	75
Wisconsin Furniture Company. (See Klein, William H., assignor.)						
Wise, Alvin A. and D., Peabody, Kans. Rotary engine	610,783	Sept. 13	1159	266 267	84	1683
Wise, August, <i>et al.</i> (See Reagan, Dominick A., assignor.)						
Wise, Daniel. (See Wise, Alvin A. and D.)						
Wise, Harry, assignor of one-hundred-and-nineteen one-hundred-and-sixtieths to W. Dobrowolski, J. and C. Wernette, San Antonio, Tex. Lock	599,277	Feb. 15	2045	485	82	1024
Wise, Joseph O. V., Canfield, Colo. Harvester weight-equalizer	600,665	Mar. 15	1900	433	82	1620
Wise, Joseph O. V., Canfield, Colo. Harvester	600,666	Mar. 15	1902	433	82	1620
Wise, Paul, Germania, assignor of one-half to B. Dietz, Medora, Canada. Car-mover	611,747	Oct. 4	272	65	85	56
Wise, Robert, New York, N. Y. Hose-nozzle	604,554	May 24	2456	558	83	1141
Wise, William H. (See Horner and Wise.)						
Wiseman, Edmund, and J. Holroyd, Luton, England. Hydrocarbon-motor	600,107	Mar. 1	881	202 203	82	1386
Wiseman, Edmund, Luton, and J. Holroyd, London, England. Hydrocarbon-motor	600,974	Mar. 22	2409	550 551	82	1730
Wiser, George L., Plymouth, Ind. Joint for rims of vehicle-wheels	601,923	Apr. 5	575	119	83	109
Wishart, Edward, Waterford, Pa. Egg-beater	611,726	Oct. 4	244	59	85	50
Wishart, James M., Oakland, Cal. Gold-separator	597,450	Jan. 18	1731	400	82	370
Wisler, Martin I., Philadelphia, Pa. Chair	611,882	Oct. 4	503	121	85	100
Wisner, Charles H., Flint, Mich. Minnow-trap	599,086	Feb. 15	1726	410	82	966
Wisner, Edward, <i>et al.</i> (See Mooers, Henry C., assignor.)						
Wisner, William O., Hooper, assignor of one-third to H. A. Sturges, Omaha, Nebr. Automatic roadway-guard	606,614	June 28	2929	679	83	1969
Wisniewski, Vincent, Berlin, Germany. Driving-gear for cycles	616,386	Dec. 20	2178	508	85	1570
Wisotzkey, Daniel F., <i>et al.</i> (See Gearhart, Lewis, assignor.)						
Wisse, Iman, Grand Rapids, Mich. Holdback-hook	607,499	July 19	1792	373	84	387
Wissmann, Jacob, Chicago, Ill. Painting	602,533	Apr. 19	1630		83	339
Wister, Jones, Philadelphia, Pa. Apparatus for producing artificial geysers	600,469	Mar. 8	1543	354	82	1532
Withaeger, Charles H., Schaumburg, Ill., assignor to McCormick Harvesting Machine Company. Machine for harvesting corn	603,307	May 3	106	25	83	622
Withey, Henry, Hastings, Mich. Device for applying stay-wires to wire fences	601,864	Apr. 5	475	96	83	89
Withrow, John M., assignor to himself and W. H. Theobald, Appalachicola, Fla. Weighing-scoop	598,406	Feb. 1	568	138	82	711
Witkowski, Julius. (See Szenhak, Stanislas, assignor.)						
Witkowski, Louis C., Washington, D. C. Apparatus for lubricating and cooling journals	612,653	Oct. 18	1886	447	85	385
Witmark, Isidor. (See Weiss, Julius, assignor.)						
Witt, George C., and C. H. Amann, Cincinnati, Ohio. Window frame and sash	612,221	Oct. 11	1110	266	85	227
Witt, John C., Phoenix, Ariz. Ter. Pressure-regulator	615,120	Nov. 29	3437	789	85	1341
Witt, John F. C., assignor of one-half to J. Lockman, Tonawanda, N. Y. Spark-arrester	598,046	Jan. 25	2735	638	82	580
Witteck, Charles. (See Lancaster and Witteck.)						
Wittekind, Julius H., Boston, Mass. Bottle-closure	599,886	Mar. 1	402	89	82	1289
Wittenmyer, Albert F., Emison, Ind. Traction-engine	614,918	Nov. 29	3039	696	85	1265
Witter, William S., Ridott, Ill. Dumping end-gate for wagons	610,572	Sept. 13	799	182	84	1608
Wittkowski, Joseph, Berlin, Germany. Rubber-dam clamp	611,670	Oct. 4	141	35	85	30
Wittkowsky, Carl, Berlin, Germany. Manufacturing casks or barrels from veneers	601,993	Apr. 5	705	150	83	133
Wittlinger, William, Cleveland, Ohio. Propelling mechanism for cash or bundle carriers	600,628	Mar. 15	1833	420	82	1607
Wittmann, Rudolph, Milwaukee, Wis. Vessel or kettle tilter	615,121	Nov. 29	3440	790	85	1342
Witts, Nelson, Alma City, Minn. Rotary engine	611,307	Sept. 27	2128	491 492	84	1904
Wixel, Samuel M., Marcus, Iowa. Corn-planter	605,039	May 31	3280	753 754	83	1320
Wm. H. Armstrong & Company. (See Armstrong, William H., assignor.)						
Wm. L. Gilbert Clock Company. (See McCabe, Thomas W. R., assignor.)						
Wobbe, George D., St. Louis, Mo. Penholder	615,007	Nov. 29	3221	741	85	1302



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Woeber, Amos, Moline, Ill. Plating-machine	598,457	Feb. 1	663	163	82	729
Woehrmann, Camillo von. (See McAulay, Norman, assignor.)						
Woerner, Frank W., Indianapolis, Ind., assignor to J. A. Henderson, Danville, Va. Label-affixer	602,812	Apr. 19	2119	478	83	431
Woerner, William K. H. (See Heine and Woerner.)						
Woffard, Moses, <i>et al.</i> (See Rachels, Jasper N., assignor.)						
Wohl, Alfred, Charlottenburg, Germany. Recovering protoxid of lead from waste products	601,299	Mar. 29	3003		82	1872
Wohlenberg, Fred W., Chicago, Ill. Combined track and wheel brake for street-cars	603,716	May 10	856	190	83	783
Woillard, Eugene P., Sugden, Fla. Gas-pressure generator	601,456	Mar. 29	3270	739	82	1921
Wolcott, Albert G., Lenox, Ohio. Truck	609,176	Aug. 16	1884	448	84	1048
Wolcott, William C. (See Cooper, Hiram L., assignor.)						
Wolf, Carl H., Zwickau, Germany. Igniting device for miners' lamps, &c	612,293	Oct. 11	1248	300	85	252
Wolf, Charles H., assignor of one-half to H. Wasbers, York, Pa. Bicycle-brake	599,278	Feb. 15	2049	485	82	1025
Wolf, Charles J., Memphis, Tenn. Coin-counter	611,544	Sept. 27	2575	594 595	84	1988
Wolf, Charles K., Xenia, Ohio. Machine for crimping wire-fence stays	604,647	May 24	2612	597	83	1173
Wolf, Ernest, assignor to M. Wolf, New York, N. Y. Vessel for dispensing liquids	608,501	Aug. 2	588	132	84	772
Wolf, Frederick, Quincy, Ill. Plowshare	602,711	Apr. 19	1945	442	83	399
Wolf, George S., Cleveland, Ohio. Balanced valve	599,922	Mar. 1	469	106	82	1302
Wolf, Hermann, Lodz, Russia. Warp-beam brake	610,784	Sept. 13	1161	267	84	1683
Wolf, Hermann, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Process of and apparatus for refining crude petroleum, &c	604,280	May 17	1932	432 433	83	1025
Wolf, John G. (See Carr and Wolf.)						
Wolf, Minnie. (See Wolf, Ernest, assignor.)						
Wolf, William H., Pittsburg, Pa. Hose-bridge	603,866	May 10	1141	257	83	838
Wolfe, Caroline M., Kearney, Nebr. Sad-iron	614,683	Nov. 22	2614	594	85	1166
Wolfe, Edgar A., and P. E. Hart, Salt Lake City, Utah. Shipping crate or case	601,695	Apr. 5	127	25	83	27
Wolfe, Ernest R., assignor of one-half to T. E. Moulton, Kushequa, Pa. Lock for dog attachments of logging-cars	601,419	Mar. 29	3204	723	82	1909
Wolfe, Frank L., Medford, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Pressure-recorder	603,391	May 3	252	56	83	648
Wolfe, Frank L., Medford, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Pen or pencil lever for recorders	613,811	Nov. 8	1061	241	85	838
Wolfe, Ira B. (See Wolfe, Robert H. and I. B.)						
Wolfe, Joseph L. (See Bradley, Otto, and Wolfe.)						
Wolfe, Robert H. and I. B., Tillar, Ark. Vehicle-step	610,697	Sept. 13	998	231	84	1651
Wolfe, Thomas, assignor of one-half to F. P. Fuoss and W. O. Cox, Kansas City, Mo. Newspaper-wrapper-printing machine	614,919	Nov. 29	3040	696 697	85	1265
Wolferts, Heinrich, Landwehr, Germany. Razor-grinding machine	600,470	Mar. 8	1544	355 356	82	1533
Wolff, Herrmann A., New Haven, Conn. Dry vacuum-cooker	603,546	May 3	561	124	83	709
Wolff, Herrmann A., New Haven, Conn. Mop-wringer	603,547	May 3	564	124	83	710
Wolff, Herrmann A., New Haven, Conn. Mop	606,495	June 28	2711	624	83	1927
Wolff, William. (See Schneider, Joseph, assignor.)						
Wolff, William W. (See Hanson and Wolff.)						
Wolffgramm, Paul. (See Wolffgramm, Walter and P.)						
Wolffgramm, Walter and P., Guben, Germany. Lock	601,111	Mar. 22	2639	602 603	82	1775
Wolgast, John F. (See Thompson, Richard, assignor.)						
Wolhaupter, David P., assignor of one-half to E. G. Siggers, Washington, D. C. Bicycle-bell	609,983	Aug. 30	3359	780	84	1368
Wolkow, August E., Valparaiso, Ind. Watchcase-spring	613,434	Nov. 1	408	93	85	694
Wollenberg, Isaac, Paterson, N. J. Lay or batten for looms	600,996	Mar. 22	2458	559	82	1739
Wollshlaeger, William, Port Perry, Pa. Bicycle-brake	609,647	Aug. 23	2775	647	84	1240
Wolski, Adolphus, Konskie, Russia. Blast-furnace	598,128	Feb. 1	95	22	82	620
Wolstenholme, Thomas, Philadelphia, Pa. Shield or deflector for drawing-rollers	607,724	July 19	2184	461	84	459
Woltreck, Herman C. (See Cohen and Woltreck.)						
Woltz, Albert M., Washington, D. C. Blowpipe	609,067	Aug. 16	1680	400	84	1013
Womack, John H. (See Skinner, William H., assignor.)						
Womelsdorff, Henry C. (See Scrogin and Womelsdorff.)						
Wood, Alanson, <i>et al.</i> (See Mooers, Henry C., assignor.)						
Wood, Albert C. (See Kinder and Wood.)						
Wood, Alexander C., <i>et al.</i> (See Royal, Belford G., assignor.)						
Wood, Alfred, Folkestone, England. Link for poles, traces, &c	608,970	Aug. 9	1474	348	84	958
Wood, Alfred F., assignor of one-half to J. R. Edwards, Philadelphia, Pa. Electric snap-switch	606,884	July 5	457	98	84	90
Wood, Arthur B. (See Titus, James M., assignor.)						
Wood, Charles. (See Heinrich and Wood.)						
Wood, Charles A., Milwaukee, Wis. Hose-coupling	609,488	Aug. 23	2476	578	84	1184
Wood, Charles F., Wayne, Pa., assignor to American Engineering Company, of Virginia. Automatic damper-regulator	607,900	July 26	2548	540	84	546
Wood, Charles M., Knoxville, Pa., assignor of one-half to J. W. Hathaway, Elmira, N. Y. Animal-tie	599,579	Feb. 22	2649	620	82	1163
Wood, Charles W., New Orleans, La. Sounding-machine	608,741	Aug. 9	1023	235	84	875
Wood, Clark B. (See Cantwell and Wood.)						
Wood, Edward C. (See Cantwell and Wood.)						
Wood, Edward S., <i>et al.</i> (See Royal, Belford G., assignor.)						
Wood, Eugene E. (See Allen, Charles H., assignor.)						
Wood, Frank, trustee. (See Noble, Oscar L., assignor.)						
Wood, Frank A., <i>et al.</i> (See Bovee, Manley W., assignor.)						
Wood, Frank S., Boston, Mass. Electric voting-machine	616,174	Dec. 20	1783	413	85	1791
Wood, Frank W., Indianapolis, Ind. Drive-chain	610,751	Sept. 13	1090	250	84	1669
Wood, Frank W., Newport News, Va., assignor to C. and J. M. Cory, New York, N. Y. Switch for speaking-tubes	616,175	Dec. 20	1789	413	85	1793
Wood, Franz J., Pipe Stone, Minn. Band-cutter and feeder for threshing-machines	604,281	May 17	1935	433	83	1026
Wood, Frederick W., Baltimore, Md. Valve	612,890	Oct. 25	2334	555 556	85	490
Wood, George, Prescott, Ariz. Ter. Feeder for stamp-mills	605,266	June 7	403	91	83	1428
Wood, George, Prescott, Ariz. Ter. Stamp-mill	609,863	Aug. 30	3121	729 730	84	1322
Wood, George W., Woodburn, Ill. Pneumatic stacker	599,279	Feb. 15	2050	485	82	1025
Wood, James, Logan, Utah. Hinge	612,471	Oct. 18	1555	372	85	323
Wood, James E., Hetland, S. D. Threshing-machine	612,294	Oct. 11	1249	301	85	252
Wood, Jeanie B., administratrix. (See Wood, William M.)						
Wood, John. (See Courtice and Wood.)						
Wood, John B., Oak Lawn, R. I. Folding car-gate	601,610	Mar. 29	3513	801	82	1971



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Wood, John W., Pinckneyville, Ill. Tobacco-pipe.....	600,760	Mar. 15	2063	473	82	1652
Wood, John W., Hawarden, Iowa. Extensible clothes-line prop.....	608,629	Aug. 9	826	191	84	837
Wood, Leonard C., Alden, Iowa. Wagon-loading device.....	616,387	Dec. 20	2179	508	85	1870
Wood, Matthew P., New York, N. Y. Process of and apparatus for producing calcium carbide.....	609,864	Aug. 30	3125	730 731	84	1323
Wood, Oscar V., and F. Dutcher, Fostoria, Ohio. Signal-torch.....	607,581	July 19	1943	403	84	413
Wood, Peter M., Ivy Lea, Canada. Safety attachment for gun-locks.....	608,742	Aug. 9	1026	235	84	876
Wood, Preston K., Los Angeles, Cal. Rotary pump.....	616,646	Dec. 27	2670	619	85	1984
Wood, Wilfred R., assignor to American Stoker Company, Dayton, Ohio. Underfeed stoker.....	608,819	Aug. 9	1194	279	84	905
Wood, William A., Nashville, Tenn. Plow.....	609,602	Aug. 23	2669	623	84	1219
Wood, William B. (See Boothman, John, assignor.)						
Wood, William F. (See Starrett and Welsh, assignors.)						
Wood, William G., San Francisco, Cal. Boxing-glove.....	608,434	Aug. 2	479	108	84	750
Wood, William H., East Orange, and J. H. Stevens, Newark, N. J., assignors to Celluloid Company, New York, N. Y. Waterproof fabric.....	603,001	Apr. 26	2450	-----	83	510
Wood, William J. (See Pearson, James W., assignor.)						
Wood, William M., deceased, Boston, Mass.; J. B. Wood, administratrix, assignor to Hygienic Refrigeration Company, of New Jersey. Rotary pump.....	603,805	May 10	1016	227	83	815
Wood, William T. (See Hoyte and Wood.)						
Woodall, Benjamin, Wilkinsburg, and T. E. Orr, Pittsburg, Pa. Nut-lock.....	602,549	Apr. 19	1656	376	83	344
Woodard, Alvin N., Mansfield, Ohio. Non-refillable bottle.....	604,104	May 17	1615	362	83	964
Woodard, Thomas R., Kingsbury, assignor to A. J. Esnouff, Richmond, Canada. Cloth-measuring machine.....	600,130	Mar. 1	974	216	82	1408
Woodbridge, Samuel H., Brookline, Mass. Ventilating halls or churches.....	597,826	Jan. 25	2366	552	82	509
Woodcock, Frederick, Bradford, England. Pitch-chain for cycles, &c.....	615,203	Nov. 29	3618	832	85	1378
Woodcock, James S., New Lexington, Ohio. Feed-mill.....	612,940	Oct. 25	2407	573 574	85	505
Woodcock, John C., Chillicothe, Ohio. Grinding-mill.....	610,220	Sept. 6	148	33	84	1474
Woodcock, William H., London, England. Roller-bearing.....	612,472	Oct. 18	1556	373	83	323
Woodcock, Wright, J. Longthorpe, and W. Dargue, Copley, England. Machine for dyeing, sizing, and washing yarn.....	611,308	Sept. 27	2131	492 493	84	1905
Woodford, Joel F., Brown's Valley, Cal. Wrench.....	614,156	Nov. 15	1632	375	85	972
Woodhull, Morris, Dayton, Ohio. Vehicle-spring.....	598,465	Feb. 1	677	166	82	731
Woodhull, Morris, Dayton, Ohio. Vehicle-body.....	602,550	Apr. 19	1657	377	83	344
Woodland, Amos L., Midland, Colo. Artificial limb.....	598,458	Feb. 1	665	164	82	729
Woodland, Frank O., assignor of one-half to H. Gates, Worcester, Mass. Feed-chute for crown bottle-stoppers.....	613,349	Nov. 1	238	53	85	663
Woodle, Harvey L. (See Moore and Woodle.)						
Woodling, Jacob M., Mount Jewett, Pa. Tanner's beam.....	613,483	Nov. 1	500	112	85	711
Woodling, Marvin E., Minneapolis, Minn. Inhaler.....	612,295	Oct. 11	1252	302	85	252
Woodman, George A., assignor of one-half to W. T. Agerter, Lima, Ohio. Pneumatic tire for bicycles.....	607,559	July 19	1902	393	84	406
Woodman, George C., Laredo, Tex. Registering voting-machine.....	600,820	Mar. 15	2153	492	82	1669
Woodman, George F., Dickinson, N. D. Fire-extinguisher.....	600,212	Mar. 8	1109	253	82	1451
Woodman, Ulyses G., et al. (See Scott, Charles B., assignor.)						
Woodmanse, Harrison, Freeport, Ill. Tightener for brace-rods.....	609,865	Aug. 30	3129	731	84	1323
Woodruff, Albert N., U. S. Army. Manuscript holder and spacer.....	601,112	Mar. 22	2641	603	82	1775
Woodruff, C. H., et al. (See Clark, Byron, assignor.)						
Woodruff, Charles D. (See Cunningham, Michael G., assignor.)						
Woodruff, Merritt N., et al. (See Pearce, William, assignor.)						
Woodruff, Merritt N., et al. (See Pearce and Walker, assignors.)						
Woodruff, William A. (See Blazier, Oscar V., assignor.)						
Woods, Edward D., Granville, N. Y. Corn-knife.....	614,920	Nov. 29	3045	698	85	1266
Woods, Franklin, Philadelphia, Pa., assignor to A. R. Allen, Wyckoff, N. J. Corner-strip.....	613,103	Oct. 25	2669	631	85	557
Woods, Herbert W., Estherville, Iowa. Wire-reel frame.....	613,951	Nov. 8	1281	291	85	881
Woods, John, Unity, Me. Finger-bar latch for mowing-machines.....	615,334	Dec. 6	196	49	85	1451
Woods, John P., et al. (See Cole, Daniel W., assignor.)						
Woods, Leonard W., St. Louis, Mo. Egg-holder.....	612,473	Oct. 18	1558	373	85	323
Woods, Lewis A. (See Karr, Koenig, and Woods.)						
Woods, Mary K., Williamsport, Pa. Handle for umbrellas.....	615,055	Nov. 29	3323	764	85	1320
Woods, Murray S., New Birmingham, Tex. Spark-arrester.....	598,129	Feb. 1	96	22, 23	82	620
Woods, William B., and L. Henry, Bridgeport, Ohio. Charging-buggy.....	603,751	May 10	915	203	83	795
Woodside, George T., Denver, Colo. Tongue for boots or shoes.....	601,192	Mar. 22	2782	637	82	1801
Woodward, Arthur T., Bendigo, Victoria. Umbrella-holder for cycles.....	604,674	May 24	2658	609	83	1182
Woodward, Charles R., Campbell, N. Y. Railway-crossing gate.....	608,820	Aug. 9	1198	280	84	906
Woodward, Elmer E., Rockford, Ill. Governor for water-wheels.....	608,245	Aug. 2	135	33, 34	84	681
Woodward, F. R. (See Woodward, George H., assignor.)						
Woodward, Frank L., Hudson, Mich. Plow.....	602,278	Apr. 12	1201	263	83	241
Woodward, George E., Middleborough, Mass. Permutation-padlock.....	616,647	Dec. 27	2673	619 620	85	1984
Woodward, George H., Belmont, N. H. Bottle attachment.....	612,296	Oct. 11	1252	302	85	252
Woodward, George H., Belmont, assignor of one-half to F. R. Woodward, Hill, N. H. Dose-measurer.....	599,674	Feb. 22	2836	659	82	1201
Woodward, Hattie I., et al. (See Woodward, Walter J., assignor.)						
Woodward, Hattie I., et al. (See Woodward and Brett, assignors.)						
Woodward, Russel G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Guiding device for sewing-machines.....	598,353	Feb. 1	485	117	82	693
Woodward, Russel G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing-machines.....	615,647	Dec. 6	794	184 185	85	1569
Woodward, Russel G., Waukegan, and C. McNeil, assignors to Union Special Sewing Machine Company, Chicago, Ill. Stitch-slacking device for sewing-machines.....	597,663	Jan. 18	2073	486	82	438
Woodward, Stephen, Manchester, N. H. Knitting-machine needle.....	609,566	Aug. 23	2599	608	84	1206
Woodward, Thomas. (See Holland and Woodward.)						
Woodward, Walter J., assignor to H. I. Woodward, National City, D. P. N. Little, C. W. Sanders, and E. A. Harrington, Los Angeles, Cal. Wooden-pipe-banding machine.....	603,392	May 3	254	56	83	648
Woodward, Walter J., assignor to H. I. Woodward, National City, D. P. N. Little, C. W. Sanders, and E. A. Harrington, Los Angeles, Cal. Wooden pipe.....	607,153	July 12	976	211	84	205
Woodward, Walter J., National City, and H. E. Brett; said Woodward assignor to D. P. N. Little, C. W. Sanders, E. A. Harrington, Los Angeles, and H. I. Woodward, National City, Cal. Wood-bending machine.....	596,645	Jan. 4	327	71, 72	82	64
Woodworth, Albert C., assignor to Consolidated Car Fender Company, Providence, R. I. Car-fender.....	607,901	July 26	2549	541	84	547
Woodworth, George L., Stanford University, Cal. Internal-combustion engine.....	607,317	July 12	1278	272	84	264
Woodworth, Gertrude H., Chicago, Ill. Foot-rest attachment for radiators.....	612,763	Oct. 18	2081	493	85	422



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Woodworth, Hattie B., administratrix. (See Woodworth, James E.)						
Woodworth, James E., deceased, Milwaukee, Wis.; H. B. Woodworth, administratrix. Temporary binder	604,817	May 31	2909	665	83	1248
Woolaver, George I., Quincy, Mass. Gas-burner	598,047	Jan. 25	2736	638	82	581
Woolf, William, Birmingham, A. Brown, and J. R. Rickard, London, England. Machinery for grinding and polishing steel balls	604,594	May 24	2524	574 575	83	1155
Woodford, James, London, England. Extracting precious metals from rebellious ores	598,721	Feb. 8	1127	271	82	833
Woonsocket Napping Machinery Company. (See La Fountain, Maxim, Jr., assignor.)						
Wooster, Frederick J. (See Newell, Philo, assignor.)						
Worcester Envelope Company. (See Waterhouse, Ezra P., assignor.)						
Worcester, William W., Jeffersonville, Ind. Shoe-brush	605,533	June 14	859	201	83	1538
Worden, Frank A., Ypsilanti, Mich. Musical toy	608,996	Aug. 9	1524	362	84	969
Work, Bertram G., Akron, Ohio. Treating rubber	598,550	Feb. 8	824		82	777
Workman, Harold, Dullatur, Scotland. Water-tube steam-boiler	611,952	Oct. 4	622	151	85	121
Workman, Harold, Dullatur, Scotland. Water-tube steam-boiler	611,953	Oct. 4	623	151	85	121
Workman, James A., Malden, Mo. Washing-machine	597,571	Jan. 18	1925	448	82	409
Wormald, Abraham H., Sheffield, assignor to Wormald Patent Locks Company, Limited, Manchester, England. Lock and key	614,157	Nov. 15	1633	375	85	972
Wormald Patent Locks Company. (See Wormald, Abraham H., assignor.)						
Wormer, Frederick F., assignor to Austin Separator Company, Detroit, Mich. Steam-separator	597,232	Jan. 11	1343	313 314	82	276
Wormser, Maurice S. (See Graeff, Friedrich W. H., assignor.)						
Worrall, Thomas H., and A. Lesperance, Laconia, N. H.; said Lesperance assignor to said Worrall. Friction-clutch	606,634	June 28	2966	689	83	1976
Worrest, Alfred H., Lancaster, Pa. Antirattler for thill-couplings	596,562	Jan. 4	175	40	82	36
Worsley, Frederic S., assignor to British Blahnik Arc Light Company, Limited, London, England. Electric-arc lamp	611,162	Sept. 20	1842	424	84	1831
Worst, Warren H., and C. W. Hart, Nova, Ohio. Nut-lock	607,725	July 19	2186	461	84	460
Worster, Waldo. (See Green, David A., assignor.)						
Worth, John S., Coatesville, Pa. Machine for dishing metal	603,094	Apr. 26	2610	593	83	539
Worth, John S., Coatesville, Pa. Machine for dishing metal	603,095	Apr. 26	2612	593	83	539
Worth, John S., Coatesville, Pa. Machine for dishing or forming metal	603,096	Apr. 26	2614	593	83	540
Worth, Mary C., New York, N. Y. Reservoir attachment for pens	603,097	Apr. 26	2616	594	83	540
Worth, William O., Benton Harbor, Mich. Hydrocarbon-gas engine	607,613	July 19	2000	414	84	424
Worth, William O., Chicago, Ill., assignor of two-thirds to W. R. Donaldson, Louisville, Ky., and H. W. Kellogg, Battle Creek, Mich. Motor-vehicle	607,318	July 12	1279	273 274	84	264
Worth, William P., Coatesville, Pa. Machine for dishing metal	603,098	Apr. 26	2617	594	83	540
Worthington, Charles C. (See Gale, Horace B., assignor.)						
Worthington, Charles C., Irvington, N. Y. Pump	597,368	Jan. 11	1572	366	82	323
Worthington, Charles C., Irvington, N. Y. Strainer	603,120	Apr. 26	2651	602	83	548
Worthington, Charles C., Irvington, N. Y. Valve-movement for pumps	607,902	July 26	2550	541 542	84	547
Worthington, Charles C., Irvington, N. Y. Valve-movement for steam-engines	609,953	Aug. 30	3286	766 767	84	1354
Worthington, William H. (See Bender, Hiram, assignor.)						
Wortmann, Sigismund B., New York, N. Y. Clock	598,589	Feb. 8	894	214	82	790
Woven Wire Machinery Company. (See White and Lloyd, assignors.)						
Wrede, Albin C. (See Cross and Wrede.)						
Wrege, Richard C., Detroit, Mich. Centering-tool for lathes	606,985	July 5	605	132	84	119
Wrench, Thomas, Metuchen, N. J. Target	597,795	Jan. 25	2321	541	82	500
Wrenford, née Pratt, Mary A. B., et al. (See Pratt, William T. C., assignor.)						
Wright, Aaron, Hudson, N. Y. Knife	604,850	May 31	2966	680	83	1259
Wright, Aaron, assignor of two-thirds to W. H. Hearn, Hudson, N. Y. Knife	605,944	June 21	1670	382	83	1707
Wright, Albert C., assignor of one-half to C. A. Stubbins, Britt, Iowa. Ankle-joint	608,164	July 26	3012	647	84	638
Wright, Albert S., Battle Creek, Mich. Nut-lock	602,120	Apr. 12	917	200	83	186
Wright, Alfred C., Birmingham, England. Drawing tubes	609,718	Aug. 23	2886		84	1262
Wright, Arthur C., assignor to Forehand Arms Company, Worcester, Mass. Revolver	615,467	Dec. 6	471	110	85	1503
Wright, Benjamin B. and J. H., Riverside, Cal. Machine for cleaning fruit	600,394	Mar. 8	1405	322	82	1507
Wright, Benjamin M., Columbus, Ohio. Folding ironing-board	612,083	Oct. 11	876	212	85	182
Wright, Charles A., Riverton, N. J. Pump	597,076	Jan. 11	1094	259	82	229
Wright, Charles D., Niles, Mich. Nut-lock	608,743	Aug. 9	1027	236	84	876
Wright, Charles F. (See Dunlea, Thomas J., assignor.)						
Wright, Clyde S., Quaker City, Ohio. Attachment for well-drilling machines	600,189	Mar. 8	1076	243	82	1444
Wright, Cornelius C., and W. Hunt, assignors of one-third to W. H. McDonald, Titusville, Pa. Adjustable vise-support	599,087	Feb. 15	1728	410	82	966
Wright, Edward, Worcester, Mass. Pipe-vise	598,130	Feb. 1	97	23	82	621
Wright, Edwin, assignor of one-half to W. S. Burke and J. L. Beck, Staunton, Va. Automatic pump for pneumatic tires	596,952	Jan. 4	865	203	82	168
Wright, Elisha P. S. (See Balph and Wright.)						
Wright, Ellery C., Brockton, Mass. Last	605,768	June 14	1285	298	83	1617
Wright, Francis H., New York, N. Y. Locking device for bicycles	603,780	May 10	964	216	83	804
Wright, Francis T., Edinburg, Ind. Means for extracting pith or cellulose from corn-stalks	608,630	Aug. 9	827	191	84	837
Wright, Francis T., Edinburg, Ind. Railway-tie	610,935	Sept. 20	1421		84	1751
Wright, Fred W., Reed City, Mich. Portable roller-grinder	616,597	Dec. 27	2563	594	85	1963
Wright, Frederic, Newburg, N. Y. Electric-arc lamp	606,108	June 21	1988	456	83	1766
Wright, Frederick K., assignor to Steam Gauge and Lantern Company, Syracuse, N. Y. Bicycle-lamp	599,088	Feb. 15	1730	410	82	966
Wright, Frederick K., assignor to Steam Gauge and Lantern Company, Syracuse, N. Y. Lamp-holder	612,148	Oct. 11	983	238	85	202
Wright, Frederick W. (See Driffild, Carey, and Wright.)						
Wright, George E., assignor of one-half to F. C. Smith, Newark, N. J. Thrust-bearing for shafts	611,984	Oct. 4	673	163 486	85	131
Wright, George E., and W. Monk, Nottingham, England. Apparatus for extracting oil	599,280	Feb. 15	2051	487 488	82	1025
Wright, Gilbert. (See Davis and Wright.)						
Wright, Gilbert, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Switch for electric circuits	599,954	Mar. 1	520	118	82	1311
Wright, Jacob P., New Haven, Conn., assignor to Diamond Match Company, Chicago, Ill. Match-making machine	603,459	May 3	391	87, 88	83	676
Wright, Jacob P., New Haven, Conn., assignor to Diamond Match Company, Chicago, Ill. Machine for sanding box-shucks	603,520	May 3	516	113 114	83	700
Wright, Jacob P., New Haven, Conn., assignor to Diamond Match Company, Chicago, Ill. Carrier for match-splints	612,084	Oct. 11	877	213	85	132



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Wright, Jacob P., New Haven, Conn., assignor to Diamond Match Company, Chicago, Ill. Mechanism for feeding match-splints	614,314	Nov. 15	1920	443 444	85	1025
Wright, James, Roslyn, Wash. Nozzle	616,757	Dec. 27	2879	667	85	2026
Wright, James C., Lincoln, Mo. Combined planter and marker	602,383	Apr. 12	1368	306 307	83	276
Wright, James C., Louisville, Ky. Tobacco-pipe	610,839	Sept. 13	1254	289	84	1702
Wright, James E., Fall River, Wis. Respooling-wire	610,730	Sept. 13	1057	242	84	1662
Wright, James H. (See Wright, Benjamin B. and J. H.)						
Wright, James K., New York, N. Y. Automatic safety stop device	602,384	Apr. 12	1370	307	83	276
Wright, James K., New York, N. Y. Automatic safety-stop for engines	602,385	Apr. 12	1375	308	83	277
Wright, James V., <i>et al.</i> (See Amanns, Abraham, assignor.)						
Wright, Jefferson, Neenah, Wis. Ring attachment for mail-catch pouches	613,749	Nov. 8	950	217	85	818
Wright, John J., <i>et al.</i> (See Cole, Daniel W., assignor.)						
Wright, John N., Luverne, Minn. Milk-strainer	609,529	Aug. 23	2538	594	84	1195
Wright, Morris S., Worcester, Mass. Automatic musical instrument	596,730	Jan. 4	490	112	82	95
Wright, Newsome C., Nashville, Tenn. Excavator	611,985	Oct. 4	674	164	85	132
Wright, Parvin, Los Angeles, Cal. Wave-motor	599,756	Mar. 1	143	33 34 35	82	1243
Wright, Roger, Newcastle-upon-Tyne, England. Gas-compressor	610,573	Sept. 13	800	182 183	84	1608
Wright, Spencer D. (See Saile, Mathew, assignor.)						
Wright, Theodore, London, England. Binder	608,312	Aug. 2	251	57	84	705
Wright, Theodore, Bentley Creek, Pa. Magazine-firearm	612,085	Oct. 11	880	213	85	183
Wright, Thomas, Jersey City, N. J. Dumping-wagon	600,393	Mar. 8	1403	321	82	1507
Wright, Thomas, Jersey City, N. J. Wagon	612,691	Oct. 18	1949	461	85	398
Wright, Thomas, Jersey City, N. J. Dumping-wagon	613,547	Nov. 1	589	136	85	728
Wright, Walter, Acocks Green, assignor to Standard Electro Galvanizing Company, Limited, Birmingham, England. Apparatus for depositing metal on tubes or pipes	615,940	Dec. 13	1316	306 307	85	1680
Wright, William, Manchester, England. Window-fastener	601,090	Mar. 22	2600	593	82	1767
Wright, William, Franklin, Pa. Pumping-rigging for oil-wells	614,684	Nov. 22	2616	594	85	1166
Wright, William B., Warren, Ind. Gate operating and securing device	613,546	Nov. 1	589	136	85	728
Wright, William H., Jr., Buffalo, N. Y. Game apparatus	613,435	Nov. 1	410	93	85	694
Wright, William H., assignor to E. Ingraham Company, Bristol, Conn. Sash for clock-dials	614,523	Nov. 22	2317	531	85	1113
Wright, William H., and J. G. Dell, Huntingdon, Pa. Coupling for hammock-supports	605,367	June 7	603	134	83	1467
Wright, William J., Pittsburg, Pa. Oil-well pump	599,544	Feb. 22	2576	604	82	1148
Wright, William J., Pittsburg, Pa. Oil-well pump	604,202	May 17	1793	404	83	998
Wright, William J., Pittsburg, Pa. Gas-engine	607,903	July 26	2559	543	84	549
Wright, William J., Pittsburg, Pa. Gas-engine	607,904	July 26	2563	543	81	549
Wright, William S., Wheeling, W. Va. Steam-engine	613,350	Nov. 1	240	54	85	663
Wrightson, Thomas, Neasham, England. Apparatus for discharging coal into ships' holds	612,297	Oct. 11	1254	302 303	85	253
Wrigley, John, Elmira, N. Y. Cleaning device for sewers, water-closets, &c	599,089	Feb. 15	1732	411	82	967
Wrigley, John, Elmira, N. Y. Means for conveying cables, wires, or the like through underground conduits	614,597	Nov. 22	2450	558	85	1136
Wronski, John A., Bornd, Russia. Cycle	606,323	June 28	2400	556	83	1866
Wrublik, Rudolf, Chicago, Ill. Crosscut-saw	605,368	June 7	604	134	83	1467
Wuest, Frederick, assignor to G. H. Bishop & Co., Lawrenceburg, Ind. Tenon or back saw	607,107	July 12	889	192	84	191
Wuichet, Walter G., assignor to Pasteur-Chamberland Filter Company, Dayton, Ohio. Combined filter and cooler	615,941	Dec. 13	1319	307 308	85	1681
Wunderlich, Frederick A., Brooklyn, N. Y. Hose-coupling	603,460	May 3	393	88	83	677
Wunderlich, Herman, Borna, assignor to H. Leonhardt, Hamburg, Germany. Draft-equalizer	608,093	July 26	2894	620	84	617
Wurmbach, Carl F., Müsen, Germany. Disintegrating-machine for glue pieces	609,489	Aug. 23	2476	578	84	1184
Wurst, Charles F. C. (See Hayden and Wurst.)						
Wurthner, Jacob, assignor of three-fourths to D. Stehle, J. Schirra, and M. Schaedle, Pittsburg, Pa. Nut-lock	606,109	June 21	1990	457	83	1767
Wurzburg, Ludwig, London, England. Jar or other receptacle for preserves, &c	602,791	Apr. 19	2069	470	83	422
Wüstenhöfer, Julius, Hagen, Germany. Rag-engine	616,517	Dec. 27	2439	564	85	1941
Wyatt, James H. (See Barrett and Wyatt.)						
Wyche, Henry, Hallsborough, N. C. Fence	596,688	Jan. 4	410	92	82	81
Wyckoff, Seamans & Benedict. (See Brigham, Ernest A., assignor.)						
Wyckoff, Seamans & Benedict. (See Brooks, Byron A., assignor.)						
Wyckoff, Seamans & Benedict. (See Diss, Louis P., assignor.)						
Wyckoff, Seamans & Benedict. (See Shepard, Charles H., assignor.)						
Wyckoff, Seamans & Benedict. (See Southgate, Philip W., assignor.)						
Wyckoff, Seamans & Benedict. (See Webb, George B., assignor.)						
Wyke, Thomas H., Boston, Mass. Fluid-motor for pipe-organs	609,133	Aug. 16	1806	430	84	1034
Wykert, Henry R., Omaha, Nebr. Tire	596,930	Jan. 4	822	195	82	160
Wyl, Joseph von. (See Kirkham, John, assignor.)						
Wylde, Josiah R., and J. W. Kynaston, assignors to United Alkali Company, Limited, Liverpool, England. Making hydrochloric acid	605,369	June 7	605	134	83	1467
Wylie, Thomas B., Allegheny, assignor to Pittsburgh Supply Company, Limited, Pittsburg, Pa. Proportional meter	596,953	Jan. 4	867	203 204	82	169
Wyllie, William L., Hoo St. Werburgh, England. Telemeter or range-finder	609,256	Aug. 16	2052	487	84	1083
Wyman, George L., assignor to Morgan Company, Oshkosh, Wis. Refrigerator	615,942	Dec. 13	1321	308	85	1681
Wyman, Horace. (See Crompton and Wyman.)						
Wyman, Horace. (See Goodline and Wyman.)						
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Harness-leveling device for looms	599,675	Feb. 22	2837	659	82	1201
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lap-pet-loom	603,521	May 3	520	114 115	83	700
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-box-operating mechanism for looms	603,522	May 3	524	116	83	701
Wyman, Horace, and C. Crompton, assignors to Crompton Loom Works, Worcester, Mass. Loom	600,053	Mar. 1	778	178 179	82	1366
Wyman, Horace, and R. Crompton, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Loom	609,257	Aug. 16	2053	487	84	1084
Wyman, Horace, and W. H. Redding, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Shedding mechanism for looms	603,308	May 3	108	26	83	622
Wyman, William F., Oshkosh, Wis. Skirt-protector material	604,818	May 31	2910	666	83	1248
Wyngaard, Christina V., Green Bay, Wis. Combined sofa and cabinet	607,905	July 26	2565	543	84	550
Wynn, Bryant P. (See Whitaker, John B., assignor.)						
Wynn, John, Cardiff, England. Means for automatic control of gas-supply in gas cooking-stoves	611,425	Sept. 27	2369	544	84	1942



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Wynne, Agar. (See Baker, Frederick, assignor.)						
Wynne, Frank. (See Urquhart and Wynne.)						
Wynne, George F., Plasgwyn Minera, England. Actinometer	600,484	Mar. 8	1564	360	82	1536
Wynne, Watkin, Waverly, New South Wales. Knife attachment for linotype-machines.	609,315	Aug. 16	2158	510	84	1105
Wyoming Cash Register Company. (See Walter, Henry G., assignor.)						
Wyser, Alfred, Aarau, Switzerland. Apparatus for mercerizing	610,619	Sept. 13	878	201	84	1626
Wyss, Henri, Levallois-Perret, France. Bearing	614,357	Nov. 15	2017	465	85	1043
Wyssinger, Leonard, Leitersburg, assignor of one-half to D. C. Gilbert, Washington county, Md. Music-leaf turner	606,110	June 21	1991	457	83	1767
Wythe, William H. (See Wythe, William W. and W. H.)						
Wythe, William W. and W. H., Orange, N. J., assignors to National Cash Register Company, Dayton, Ohio. Cash indicator and recorder	606,324	June 28	2401	556 557	83	1866
X Chair Patents Company. (See Anderson, Anton E., assignor.)						
Xpedite Machine Company. (See Beaudry, Zotique, assignor.)						
Yaggy, Levi W., Lake Forest, Ill. Combined blackboard and desk	600,629	Mar. 15	1835	420	82	1608
Yalden, James E. G., New York, N. Y. Slide-rule	603,370	May 3	217	48	83	642
Yale, Julian L., Chicago, Ill. Tie-plate	596,731	Jan. 4	493	112	82	96
Yale & Towne Manufacturing Company. (See Lennart, Pehr J., assignor.)						
Yale & Towne Manufacturing Company. (See Mix, Frank W., assignor.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yancey, Robert F., Akard, Mo. Churn	599,212	Feb. 15	1940	468	82	1004
Yardley, John O., Stockton, Cal. Game apparatus	614,524	Nov. 22	2318	531	85	1113
Yarger, John A., Nashua, Iowa. Thill-coupling	615,378	Dec. 6	303	71	85	1472
Yarger, Samuel J. (See Zwissler, Valentine, assignor.)						
Yarnall, John F., Altoona, Pa. Slate	611,545	Sept. 27	2580	595	84	1989
Yarrow Schlick & Tweedy System. (See Taylor, David W., assignor.)						
Yates, Alexander, assignor to H. H. Palmer Company, Rockford, Ill. Ear for vessels	607,390	July 12	1413	302	84	290
Yates, John. (See MacArthur and Yates.)						
Yates, John W., Nashville, Tenn. Heating apparatus	604,819	May 31	2311	666	83	1248
Yates, William, Richmond, Wash. Envelop-opener	606,261	June 28	2295	531	83	1845
Yauslin, Lemuel, Axteell, Kans. Postage-stamp holder and stamper	601,030	Mar. 22	2513	571	82	1749
Yawman & Erbe. (See Mueller, George A., assignor.)						
Yeager, Charles, Hamilton, Canada. Pot or kettle strainer	615,468	Dec. 6	472	111	85	1503
Yeager, Charlie E., Prairie Creek, Ind. Folding bed	609,380	Aug. 16	2254	533	84	1123
Yeager, James W., Waverly, Mo. Roller-feeding device for flour-mills	609,719	Aug. 23	2887	674 675	84	1262
Yeagley, Frank, Lebanon, Pa. Grain-measure	603,309	May 3	111	26	83	623
Yeagley, Jacob B., Denton, Tex. Plow-cleaner	613,548	Nov. 1	592	136 137	85	729
Yearicks, George W., Bridesburg, Pa. Filling material for mattresses, &c.	610,936	Sept. 20	1422		84	1751
Yenovkian, Sarkis S., Delaware, Ohio. Fire-cracker	600,190	Mar. 8	1077	243	82	1444
Yerbury, Charles W., Newark, N. J. Switch-operating mechanism	599,580	Feb. 22	2650	621	82	1163
Yergin, William L., and J. E. Wadsworth, La Porte, Ind. Combined post and winding apparatus	605,769	June 14	1286	298	83	1618
Yerkes, John, St. Louis, Mo. Dowel-hole-boring machine	609,567	Aug. 23	2600	608 609	84	1207
Yetter, Frederick G., Greenfield, Mass. Apparatus for preventing kettles boiling dry	603,461	May 3	394	88	83	677
Yielky, Louis, Rock Creek, Kans. Disk-marker	616,279	Dec. 20	1980	461	85	1831
Yingst, Cyrus, Annville, Pa. Velocipede or polycycle	600,471	Mar. 8	1547	356	82	1533
Yoas, Hans, Rock Island, Ill. Figure toy	612,474	Oct. 18	1559	374	85	324
Yoder, Philip, Wadsworth, Ohio. Salt-purifier	615,335	Dec. 6	196	49	85	1451
Yohe, Etha S., and I. W. Parsons, Wilmington, Del. Folding egg-crate	599,979	Mar. 1	557	128	82	1318
Yohn, John B., Sailor, Mich. Combined post and brace	598,833	Feb. 8	1292	313	82	865
Yon, Joseph T., et al. (See Belaire, Alfred, assignor.)						
Yon, Nelson, et al. (See Belaire, Alfred, assignor.)						
Yonge, Robert G., St. Louis, Mo. Safety-hatchway for elevators	614,358	Nov. 15	2018	465 466	85	1044
York, Charles C., Indianapolis, Ind. Machine for cutting candy	599,414	Feb. 22	2331	551	82	1102
York, George E. (See Richards and Forbes, assignors.)						
York, John A. (See Winters, Frederick V., assignor.)						
York, R. Sherman, et al. (See Guest, John H., assignor.)						
York Structural Steel Company. (See Prescott, De Witt C., assignor.)						
York, William J., Greenfield, Ohio. Liquid-conveyer	606,615	June 28	2930	679 680	83	1969
Youtlen, William, London, England. Pivoted window-sash, door, &c.	600,472	Mar. 8	1549	356	82	1533
Young, Alba R., Murray, Nebr. Attachment for corn-planters	602,534	Apr. 19	1631	371	83	339
Young, Albert, and W. Wenner, Philadelphia, Pa. Machine for sewing looped fabrics	599,136	Feb. 15	1818	431	82	982
Young, Albert A., Wakefield, Mass. Air goods	616,816	Dec. 27	2977	694	85	2046
Young, Alzina V., administratrix. (See Hodgins and Young.)						
Young, Anne A., Williamsport, Ind. Hammock-frame	606,616	June 28	2932	680	83	1969
Young, Benjamin R., et al. (See Nelson, Nelson P., assignor.)						
Young, Charles P., York, Pa. Trousers-clamp	598,459	Feb. 1	671	164	82	730
Young, Charles P., York, Pa. Pneumatic tire	598,460	Feb. 1	672	164	82	730
Young, Charles S., et al. (See Middlekauff, Ellsworth D., assignor.)						
Young, Christian, Mendota, Minn. Truck	615,204	Nov. 29	3619	832	85	1378
Young, Clarence H., Boston, Mass. Reclining-chair	609,177	Aug. 16	1885	448	84	1048
Young, Edmund R., et al. (See Bovee, Manley W., assignor.)						
Young, Edward S., Hartford, Conn. Portable house	611,309	Sept. 27	2134	494	84	1906
Young, Edward T., Boston, Mass. Puzzle	598,889	Feb. 8	1386	334	82	884
Young, Edward T., and W. A. Macdonald, Boston, Mass. Safety device for letters, &c.	607,319	July 12	1282	274	84	264
Young, Elizabeth, assignor of one-half to R. L. Young, Glasgow, Scotland. Corset attachment	611,163	Sept. 20	1843	425	84	1831
Young, Ernest W. (See Morgan and Young.)						
Young, Ernest W., Austin, assignor, by mesne assignments, to Morgan & Wright, Chicago, Ill. Pneumatic tire	607,402	July 12	1435	305	84	294
Young, Ernest W., Austin, assignor, by mesne assignments, to Morgan & Wright, Chicago, Ill. Pneumatic tire	607,403	July 12	1437	306	84	294
Young, Frank, and H. Bundy, Santa Ana, Cal. Billiard-cue tip	609,381	Aug. 16	2255	533	84	1123
Young, Frederick H. (See Richardson and Young.)						
Young, George C., Washington, N. J. Sash lifter and lock	606,262	June 28	2296	532	83	1846
Young, Harland H., assignor of two-thirds to J. W. Smith and W. G. Tower, Kansas City, Mo. Machine for splitting beaves	601,926	Apr. 5	576	120	83	110
Young, Hayes, assignor of one-third to W. Young, Cable, Ohio. Carriage-curtain catch	610,374	Sept. 6	450	98	84	1525
Young, Hiram C., Goose Creek, Ky. Wheel-cultivator	598,461	Feb. 1	673	165	82	730
Young, Hiram C., Goose Creek, Ky. Wheel-cultivator	598,462	Feb. 1	674	165	82	730



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Young, Ida C. (See Case and Young.)						
Young, James M. (See Moore and Young.)						
Young, Jefferson J., <i>et al.</i> (See Slaughter, Sherman, assignor.)						
Young, John. (See Thompson, Richard, assignor.)						
Young, John A., and E. R. Cable, Greensborough, N. C. Portable fence	615,949	Dec. 13	1322	308	85	1682
Young, John F. (See Hodgins and Young.)						
Young, John J. (See Mandleberg and Young.)						
Young, John N., Alameda, Cal. Wrench	607,320	July 12	1284	274	84	265
Young, John W., Rochester, Pa. Ornamental baby-carriage	614,685	Nov. 22	2618	595	85	1167
Young, Jonas F. (See Neumeyer and Young.)						
Young, Jonathan E., and G. Morden, Conneaut, Ohio. Railway-switch-operating mechanism	602,249	Apr. 12	1147	252	83	231
Young, Joseph S. (See Lare and Young.)						
Young, Josiah N., assignor of one-half to D. S. Jones, Sunnyside, Miss. Indexer	607,781	July 19	2283	482	84	478
Young, Leland G., Muscatine, Iowa. Hammer	602,971	Apr. 26	2399	547	83	501
Young, Lewis T. (See Alter and Young.)						
Young, McClintock, Frederick, Md., assignor to Palmetto Fibre Company, of Illinois. Gage device for brush-machines	606,371	June 28	2493	579	83	1883
Young, Oliver M., Bicknell, Ind. Fruit-gatherer	606,950	July 5	545	120	84	108
Young, Pauline, (now by marriage Pauline Young Weeks,) Philadelphia, Pa. Hook and eye	604,135	May 17	1668	375	83	973
Young, Robert L. (See Young, Elizabeth, assignor.)						
Young, Samuel, Peel Green Patricroft, England. Rail-joint	603,752	May 10	916	203	83	795
Young, Washington H., Indianapolis, Ind. Baling-press	610,731	Sept. 13	1058	243	84	1663
Young, Wilbert. (See Young, Hayes, assignor.)						
Young, Willard H., and J. F. Godley, Trenton, N. J. Bottle	600,108	Mar. 1	883	203	82	1387
Young, William F. (See Roulet and Young.)						
Young, William F., assignor of one-half to H. S. Davis, Philadelphia, Pa. Car-fender	600,601	Mar. 15	1795	410 411	82	1600
Young, William H., Dayton, Ohio. Pamphlet-wrapper	596,563	Jan. 4	178	40	82	36
Young, William P. S., Leipsic, Ohio. Railway-crossing	615,122	Nov. 29	3442	790	85	1342
Youngberg, Idolf, and J. O. Nord, Ishpeming, Mich. Bootjack	609,603	Aug. 23	2670	623	84	1219
Younger, William T., Austin, Tex. Baling-press	597,478	Jan. 18	1777	411	82	379
Youngquist, Carl A. R., New York, N. Y. Device for handling cans, bottles, jugs, &c	613,788	Nov. 8	1009	230	85	829
Youns, Charles H., Belmont, N. Y. Tool-holder	613,952	Nov. 8	1283	291	85	881
Yunck, Frederick, Bryan, Ohio. Folding stool	596,931	Jan. 4	823	195	82	161
Yznaga, Juana G., Brownsville, Tex. Invalid's chair	597,598	Jan. 18	1969	458	82	418
Zachary, James W., <i>et al.</i> (See Davis, Joseph H., assignor.)						
Zacsek, Stefan, and E. O. Gottlieb, New York, N. Y. Incandescent burner	604,222	May 17	1828	409	83	1005
Zaehringer, William, New Orleans, La. Sash-fastener	598,756	Feb. 8	1178	283	82	843
Zahn, Frank. (See Coleman, Runyon, and Zahn.)						
Zahn, Max, Artern, Germany. Obtaining lime sucrate	611,164	Sept. 20	1844	425	84	1831
Zakovec, John, Morse Bluff, Nebr. Corn-planter	597,599	Jan. 18	1970	458 459	82	419
Zambusky, Eduard, West Leisenring, Pa. Metallic bedstead	610,698	Sept. 13	999	232	84	1651
Zander, Gustav. (See Chick, George H., assignor.)						
Zander, Hermann. (See Stocker, Meissner, and Zander.)						
Zander, Hermann. (See Stocker, Zander, and Döblin.)						
Zander, William, Stanton county, Nebr. Snap-hook	598,300	Feb. 1	411	97	82	680
Zawiejski, Ian, Vienna, Austria-Hungary. Arrangement for producing water walls on outside of buildings	609,316	Aug. 16	2159	510	84	1105
Zeal, Giles H. (See Hicks and Zeal.)						
Zeckendorf, Hugo A., Tucson, Ariz. Ter. Tool-handle and device for securing same	597,451	Jan. 18	1733	400	82	370
Zeglen, Casimir, Chicago, Ill. Bullet-proof fabric	604,870	May 31	3006	690	83	1267
Zeh, Otto, Eisfeld, Germany. Coloring doll-heads	603,216	Apr. 26	2802		83	577
Zehnder, William, Canal Dover, assignor of one-half to G. Weiss, Ragersville, Ohio. Shutter-operating device	611,165	Sept. 20	1845	425	84	1832
Zeidler, Edward P., Cleveland, Ohio. Drum	609,068	Aug. 16	1681	400	84	1013
Zender, Anton L. (See Schunck and Zender.)						
Zenker, Charles F., New York, N. Y. Cigar-package	611,671	Oct. 4	142	35	85	30
Zenses, Johann C., Remscheid, Germany. File-cutting machine	600,570	Mar. 15	1746	398	82	1591
Zerban, Robert J., Jr., Belleville, Ill. Traction-engine	611,166	Sept. 20	1848	425 426	84	1832
Zerffi, William D., and F. G. Riedel, assignors to Carlton & Co., Stockport, England. Fur or wool hat	615,944	Dec. 13	1323	308	85	1682
Zerfing, David, Windham, Iowa. Baby-swing	597,047	Jan. 11	1035	244	82	217
Zertuche, Emilio, Puebla, Mexico. Valve	606,906	July 5	485	105	84	96
Zesiger, John L., Cleveland, Ohio. Check for doors, &c. (Reissue)	11,684	July 26	3017	619	84	639
Zestermann, Adolph, assignor of one-half to C. Fritze, Cincinnati, Ohio. Scoring device for games	603,356	May 3	191	44	83	638
Zetterstrand, Charley A., Hillsborough, N. D. Heating-drum	601,368	Mar. 29	3117	704	82	1892
Zettle, Herbert A., <i>et al.</i> (See Gellenbeck, Edward J., assignor.)						
Zeugschmidt, Sophia, Allegheny, Pa. Chatelaine	601,725	Apr. 5	199	39	83	39
Zieber, John, Fargo, N. D. Coupling for traction-engines	614,598	Nov. 22	2452	559	85	1136
Ziegenbein, Johann H. F. (See Lindner and Ziegenbein.)						
Ziegfeld, Hugo. (See Morfoot, Benjamin W., assignor.)						
Ziegler, Alfred M. (See Spicer, Pratt A., assignor.)						
Ziegler, Andrew J. and J. B. Hazleton, Pa. Clothes-pounder	611,727	Oct. 4	245	59	85	50
Ziegler, Henry, New York, N. Y. Sounding-board support	612,222	Oct. 11	1112	266	85	227
Ziegler, Jacob B. (See Ziegler, Andrew J. and J. B.)						
Ziegler, John F., Toledo, Ohio. Filter	599,757	Mar. 1	149	35	82	1244
Ziegler, Josef, assignor to F. Fritzsche & Co., Hamburg-Uhlenhorst, Germany. Essence of violets	601,193	Mar. 22	2782		82	1801
Ziegler, Oscar J., assignor to Stover Manufacturing Company, Freeport, Ill. Sheet-metal tank	610,574	Sept. 13	803	183	84	1609
Zika, John W. (See Elias, Charles A., assignor.)						
Zimmer, Adam, and B. Roenisch, Sebewaing, Mich. Combined clod-crusher and land-roller	609,069	Aug. 16	1682	400	84	1013
Zimmer, Charles, Paris, Ark. Cotton-chopper	609,382	Aug. 16	2256	534	84	1124
Zimmer, John, Pittsburg, Pa. Straightening-machine	604,282	May 17	1937	433 434	83	1026
Zimmer, Louis. (See Hall, Albert H., assignor.)						
Zimmerman, Casper, Santa Rosa, Cal. Tree-protector	614,921	Nov. 29	3046	698	85	1266
Zimmerman, Charles L., <i>et al.</i> (See Gearhart, Lewis, assignor.)						
Zimmerman, Charles L. and J., Chicago, Ill.; said Charles L. Zimmerman assignor to said J. Zimmerman. Acetylene-gas-generating lamp	600,846	Mar. 15	2201	503	82	1678



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Zimmerman, Elmer D., Alzada, Mont. Pistol-holder.....	609,317	Aug. 16	2160	511	84	1106
Zimmerman, Harry, Frederick, Md. Wire-stretcher.....	616,176	Dec. 20	1791	414	85	1793
Zimmerman, J. B., <i>et al.</i> (See McIntire, Charles S., assignor.)						
Zimmerman, John. (See Stein, August K., assignor.)						
Zimmerman, John. (See Zimmerman, Charles L. and J.)						
Zimmerman, John, Chicago, Ill. Lamp for generating acetylene gas.....	600,630	Mar. 15	1837	420	82	1608
Zimmerman, John, Chicago, Ill., and F. L. White, Waterbury, Conn.; said White assignor } to said Zimmerman. Lamp for generating acetylene gas.....	600,847	Mar. 15	2202	503 504	82	1678
Zimmerman, John W., Wilmington, N. C. Awning-frame.....	607,108	July 12	890	192	84	191
Zimmerman, John W., Canton, Ohio. Faucet for drawing beer, &c.....	615,774	Dec. 13	1023	240	85	1626
Zimmerman, Joseph W., Zimmerman, La. Wheel-guard for sawmill-carriages.....	601,194	Mar. 22	2783	637	82	1801
Zimmerman, William. (See Heusch, Anton, assignor.)						
Zimmerman, William. (See Wiedenbauer, Alois, assignor.)						
Zimmerman, William C. F. (See Bateman and Zimmerman.)						
Zimmerman, William C. F., Lone Tree, Iowa. Grubbing-machine.....	615,945	Dec. 13	1324	309	85	1682
Zimmermann, Ernest A. (See Schubert, Edward A., assignor.)						
Zimmermann, Franz, Berlin, Germany. Hair-curler.....	613,104	Oct. 25	2670	631	85	558
Zimmermann, John, Benton City, Mo. Corn-guide.....	615,514	Dec. 6	561	128	85	1520
Zingg, Adolf. (See Züblin and Zingg.)						
Zink, Ernest E., Kansas, Ill. Buttonhole-cutter.....	609,720	Aug. 23	2888	675	84	1262
Zinn, Mary. (See Scheuber, August W., assignor.)						
Zinnemann, Adolf, Einbeck, Germany. Barrel-cleaner.....	612,450	Oct. 18	1514	364	85	316
Zinsgraf, August, Los Angeles, Cal. Shears.....	613,873	Nov. 8	1162	266	85	858
Zipfel, John, Jr., Newark, N. J. Stay-flange for hat-boxes.....	614,780	Nov. 22	2775	634	85	1199
Zipp, John. (See Keifel and Zipp.)						
Zippler, Michael, Allegheny, Pa. Gas-heater.....	605,560	June 14	908	212	83	1549
Zirkilton, Francis X., Philadelphia, Pa. Article of jewelry.....	606,617	June 28	2933	680	83	1969
Ziskovsky, Joseph T., Cedar Rapids, Iowa. Attachment for window-screens, storm- sashes, &c.....	609,490	Aug. 23	2478	579	84	1184
Zogg, Nicholas, New York, N. Y. Automatic filler for lubricators.....	603,393	May 3	258	57	83	649
Zoller, William, San Francisco, Cal. Filtering-faucet.....	609,721	Aug. 23	2889	675	84	1262
Zöllner, Carl. (See Zöllner, Matthes and C.)						
Zöllner, Matthes and C., Blackland, Tex. Frame for cultivators.....	615,775	Dec. 13	1025	240	85	1626
Zolper, Wilhelm, Elkton, Md. Game.....	607,560	July 19	1903	393	84	406
Zook, Jacob H., Gunn City, Mo. Device for raising or lowering coffins.....	609,070	Aug. 16	1683	401	84	1013
Zook, John G., Lititz, Pa. Fly-screen.....	603,717	May 10	858	191	83	784
Zopf, Henry, Monroe, Wis. Clip for ax-handles.....	614,525	Nov. 22	2319	532	85	1113
Zschech, Gustaf H. (See Lukens and Zschech.)						
Zschörner, Karl A., Vienna, Austria-Hungary. Producing fibrous material from peat.....	610,957	Sept. 20	1462		84	1758
Zuber, Henry, Hennesey, Okla. Ter. Time-card receptacle.....	609,604	Aug. 23	2672	624	84	1219
Zuerbier, August W., Logan, Minn. Gun-support.....	612,298	Oct. 11	1256	303	85	253
Züblin, Heinrich, and A. Zingg, assignors to Schlaepfer, Wenner & Co., Fratte di Salerno, Italy. Discharge printing.....	601,420	Mar. 29	3206		82	1909
Zuccarello, Napoleon B., Nashville, Tenn. Wood-bending machine.....	597,452	Jan. 18	1734	401	82	370
Zuccarello, Napoleon B., Nashville, Tenn. Automatic switch.....	599,090	Feb. 15	1734	411	82	967
Zucker & Levett & Loeb Company. (See Kortum, Albert, assignor.)						
Zucker & Levett & Loeb Company. (See Ney, Roscoe W., assignor.)						
Zuckerman, Henry, <i>et al.</i> (See Sterne, Alfred J., assignor.)						
Zühlke, Julius, Neuwied, Germany. Means for making wheel-rims.....	602,926	Apr. 26	2325	529	83	487
Zulich, William R., <i>et al.</i> (See Abbott, William O., assignor.)						
Züngel, Stanislav, Prague, Austria-Hungary. Velocipede.....	615,946	Dec. 13	1326	309 310	85	1682
Zurbrigg, Gilgain A. (See Zurbrigg, Maggie E. and G. A.)						
Zurbrigg, Maggie E. and G. A., Rose Lawn, Wis. Wheel-holder.....	612,692	Oct. 18	1950	461	85	398
Zusi, Edward, Newark, N. J. Tent-slip.....	612,636	Oct. 18	1858	440	85	380
Zwack, John, Albany, N. Y. Undertaker's wagon.....	609,530	Aug. 23	2539	595	84	1195
Zweigbergk, Thorsten von, assignor to Walker Company, Cleveland, Ohio. Controller.....	605,304	June 7	473	106	83	1441
Zweigbergk, Thorsten von, assignor to Walker Company, Cleveland, Ohio. Controller.....	607,672	July 19	2107	440	84	444
Zweigbergk, Thorsten von, assignor to Walker Company, Cleveland, Ohio. Contact-fin- ger for controllers or electric switches.....	611,087	Sept. 20	1698	391	84	1803
Zweigbergk, Thorsten von, assignor to Walker Company, Cleveland, Ohio. Governing, reversing, and braking controller.....	611,088	Sept. 20	1699	391 392	84	1804
Zweigbergk, Thorsten von, assignor to Walker Company, Cleveland, Ohio. Method of and means for controlling and cutting out electric motors.....	611,089	Sept. 20	1705	392	84	1805
Zweigbergk, Thorsten von, assignor to Walker Company, Cleveland, Ohio. Controller.....	611,090	Sept. 20	1708	392 393	84	1805
Zwiebel, Anton, Burlington, Wis. Rotary steam-engine.....	601,696	Apr. 5	128	25	83	28
Zwiebel, Anton, Burlington, Wis. Windmill.....	603,806	May 10	1021	227	83	816
Zwirow, Apollo, Hoboken, N. J. Back-pedaling brake.....	603,310	May 3	112	26	83	623
Zwissler, Valentine, assignor to S. J. Yarger, Philadelphia, Pa. Staple driving and clenching machine.....	603,438	May 3	338	75	83	665



# ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Name, residence, and design.	No.	Date.	Official Gazette.	
			Volume.	Page.
A. B. Hendryx Company. (See Hendryx, Andrew B., assignor.)				
A. M. Collins Manufacturing Company. (See Odgers, John P., assignor.)				
Abraham, Ferdinand, Boston, Mass. Tobacco-pipe	29,326	Sept. 13	84	1720
Abram Cox Stove Company. (See Rankin, Thomas I., assignor.)				
Acetylene House Lighting Company. (See Unger, Ernest, assignor.)				
Ackley, Orin, New Albany, Pa. Spike-hole plug	28,851	June 14	83	1649
Adams, George E., New Britain, Conn. Socket member for detachable fasteners	28,346	Mar. 8	82	1551
Adams, George E., New Britain, Conn. Trimming for garment-supporters	28,879	June 14	83	1654
Adams, George E., New Britain, Conn. Stud member for detachable fasteners	28,917	June 28	83	1978
Adams, John L., New York, N. Y. Mold for paving-blocks	28,715	May 24	83	1202
Adams, John M., Chicago, Ill. Head or foot for bedsteads	29,423	Sept. 27	84	2012
Adams, John M., Chicago, Ill. Head or foot for bedsteads	29,639	Nov. 8	85	927
Adams, Walter S., Philadelphia, Pa. End-bearing support for car-trucks	28,328	Mar. 1	82	1410
Adams, Walter S., Philadelphia, Pa. Truck side-bar	29,309	Sept. 6	84	1577
Adams & Westlake Company. (See Peters, William M., assignor.)				
Addison, Ada, Cincinnati, Ohio. Casing for face-steamers	29,567	Nov. 1	85	763
Adler, Henry, Allegheny, Pa. Gas-stove	28,497	Apr. 19	83	439
Ahrenfeldt, Charles J., New York, N. Y. Cup	29,122	Aug. 2	84	796
Ahrenfeldt, Charles J., New York, N. Y. Covered dish	29,123	Aug. 2	84	796
Ahrenfeldt, Charles J., New York, N. Y. Plate	29,169	Aug. 9	84	971
Akin, Jennie, Pine Bluff, Ark. Teacher's holder for writing materials	28,416	Mar. 29	82	1979
Albach, William H., New York, N. Y. Stove	29,074	July 19	84	501
Alitto, Antonio, Chicago, Ill. Cooking-range	29,145	Aug. 2	84	800
Allen, Alexander, Philadelphia, Pa. Nursing-vest	28,389	Mar. 15	82	1685
Alton, Lee T., Brooklyn, N. Y. Tube for incandescent gas-burners	28,184	Jan. 18	82	454
Altop, Martin L., Sacramento, Cal. Finger-board guide	29,045	July 12	84	305
Alvin Manufacturing Company. (See Habensack, Fred, assignor.)				
Ambler, Henry L. and W., Cleveland, Ohio. Clamp	28,539	May 3	83	738
Ambler, William. (See Ambler, Henry L. and W.)				
American Electric Meter Company. (See Marks, William D., assignor.)				
American Lithographic Company. (See Kaiser, Frederick A. C., assignor.)				
American Lithographic Company. (See Speakman, Charles A., assignor.)				
American Lithographic Company. (See Witsch, Nicholas, assignor.)				
American Pulley Company. (See Corscaden, Thomas, assignor.)				
American Ring Company. (See Schuyler, Edwin J., assignor.)				
American Saw Company. (See Freas, Samuel T., assignor.)				
American Tire Company. (See Broderick, John J., assignor.)				
American Type Founders Company. (See Barth, Henry, assignor.)				
American Type Founders Company. (See Cumming, John F., assignor.)				
American Type Founders Company. (See Ihlenburg, Herman, assignor.)				
American Type Founders Company. (See Phinney, Joseph W., assignor.)				
American Type Founders Company. (See Schroeder, Gustave F., assignor.)				
Amory, William N., New York, N. Y. Cushion	28,903	June 21	83	1793
Anders, Nels A., Batavia, Ill. Sleigh-bell	28,197	Jan. 18	82	456
Anderson, Alma H., assignor to Specialty Manufacturing Company, Indianapolis, Ind. Handle for postal marking and canceling stamps	28,645	May 17	83	1059
Anderson, George M., assignor of one-half to R. Stone, Indianapolis, Ind. Rocking seesaw	29,576	Nov. 1	85	765
Anderson, Henry, Sumner, assignor of one-half to S. Sampson, Tacoma, Wash. Rein guard and holder	29,514	Oct. 18	85	447
Anderson, William H., New York, N. Y. Butt-hinge	29,381	Sept. 20	84	1862
Andrews, James W., and W. E. Ragan, Melbourne, Ark. Kitchen-cabinet	29,637	Nov. 8	85	926
Andrews, William M., Glasgow, Scotland. Shirt-bosom	28,480	Apr. 19	83	436
Appleby, Benjamin G. (See Dolson and Appleby.)				
Appleton, Robert M., Boston, Mass. Undervest	29,085	July 19	84	503
Arkell, James, assignor to Arkell & Smith, Canajoharie, N. Y. Bag	29,594	Nov. 1	85	769
Arkell, James, assignor to Arkell & Smith, Canajoharie, N. Y. Bag	29,595	Nov. 1	85	769
Arkell & Smith. (See Arkell, James, assignor.)				
Armour & Co. (See Conway, Stephen S., assignor.)				
Armstrong, Ernest, and C. M. Siefken, Camden, N. J. Packing-ring	28,198	Jan. 18	82	456
Armstrong, Ezra A., Samaria, Mich., assignor of one-half to A. W. Lefler, Toledo, Ohio. Paper-box blank	29,251	Aug. 16	84	1137
Arnold, Oscar M., New York, N. Y. Parasol	28,464	Apr. 12	83	289
Arnstine, Benjamin V. and H. W., Cleveland, Ohio. Show-case	29,035	July 12	84	303
Arnstine, Harry W. (See Arnstine, Benjamin V. and H. W.)				
Atkins, William H., Milwaukee, Wis. Boot	29,751	Nov. 29	85	1395
Atkinson, Frederick W., Chicago, Ill. Rail-bond	29,743	Nov. 29	85	1393
Atkinson, Richard, and W. Nickels, Galion, Ohio. Wrench-jaw	29,629	Nov. 8	85	925
Atkinson, Thomas J., Grand Rapids, Mich. Clothes-pin member	29,799	Dec. 13	85	1730
Attaway, Thomas W., Hart county, Ga. Rein-guide bracket for hames	29,242	Aug. 16	84	1136
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-chimney holder	29,732	Nov. 29	85	1391
Azeez, Alice A., New York, N. Y. Fabric	29,351	Sept. 13	84	1724
Bacon, Henry H. (See Hughes and Bacon.)				
Baehr, Eugene B., New York, N. Y. Mandolin	28,340	Mar. 8	82	1550
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Toy bank	29,049	July 12	84	306
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Toy money-bank	29,687	Nov. 15	85	1073
Bailey, Joseph T., Philadelphia, Pa. Badge	28,256	Feb. 8	82	885
Baitinger, Louis P., and T. H. Berkley, St. Louis, Mo.; said Berkley assignor of part to said Baitinger. Hinge member	29,516	Oct. 18	85	447
Baker, James H., Allegheny, Pa. Channel-iron	28,863	June 14	83	1652
Baker, James H., Allegheny, Pa. Channel-iron	28,864	June 14	83	1652
Baker, James H., Allegheny, Pa. Angle-iron	28,865	June 14	83	1652
Baker, Walter H., assignor to National Lead Company, St. Louis, Mo. Metal ingot	28,455	Apr. 5	83	153



*Alphabetical list of patentees of designs—Continued.*

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Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Drop for use in electrical warp stop-motions	29,681	Nov. 15	85	1072
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Drop for use in electrical warp stop-motions	29,682	Nov. 15	85	1072
Balcome, Herbert A., Boston, Mass. Motor and fan case	29,374	Sept. 20	84	1860
Baldwin, Frank A., Grand Rapids, Mich. Cigar-shield	29,785	Dec. 13	85	1728
Baldwin, William W., assignor to Cleveland Co-Operative Stove and Hollow Ware Foundry Company, Cleveland, Ohio. Bedstead	28,769	May 31	83	1339
Bandler, Max, New York, N. Y. Neckscarf	28,913	June 21	83	1795
Bantz, Frederick W., assignor to W. C. and J. D. Padgett, Dallas, Tex. Stirrup	29,415	Sept. 27	84	2010
Barber, Edward, Hope Valley, R. I. Sarcophagus	29,012	July 5	84	141
Barchard, Walter, Chicago, Ill. Hot-water holder	29,026	July 12	84	301
Barden, Harvey E., Granville, N. Y. Meat-knife, &c	28,186	Jan. 18	82	454
Baringer, Irvin Y., Perkaskie, assignor of one-half to T. L. Kneile, Philadelphia, Pa. Nut-lock or fastener-bar	29,834	Dec. 20	85	1895
Barkley, Robert J., Chanute, Kans. Carton-blank	29,094	July 26	84	640
Barkley, Robert J., Chanute, Kans. Carton filler	29,299	Sept. 6	84	1575
Barkley, Robert J., Chanute, Kans. Egg-carton filler	29,511	Oct. 18	85	446
Barkley, Robert J., Chanute, Kans. Egg-carton filler	29,512	Oct. 18	85	446
Barnes, George A. E., Depew, N. Y. Sign	29,193	Aug. 9	84	975
Barney, George L., and J. S. Kittle, Indianapolis, Ind. Lock-box front	28,315	Feb. 22	82	1203
Baron, Albert L., New York, N. Y. Lamp-base	29,173	Aug. 9	84	972
Barrie, Alexander, assignor to Court Perfumery Company, New York, N. Y. Bottle	29,126	Aug. 2	84	796
Barrie, Alexander, assignor to Court Perfumery Company, New York, N. Y. Bottle	29,127	Aug. 2	84	797
Barth, Henry, Cincinnati, Ohio, assignor to American Type Founders Company, Newark, N. J. Font of border-type	29,479	Oct. 11	85	284
Bartlett, George B., Somerville, Mass. Hassock	29,760	Dec. 6	85	1577
Bartliff, Charles A., St. Louis, Mo. Pump-curb	28,189	Jan. 18	82	455
Bartliff, Charles A., St. Louis, Mo. Pump-curb	28,190	Jan. 18	82	455
Basch, David, New York, N. Y. Bicycle toe-clip	28,478	Apr. 12	83	292
Bassett, George B., Buffalo, N. Y. Cyclometer-case	29,869	Dec. 27	85	2078
Bauer, Jacob M. (See Bauer, John G. and J. M.)				
Bauer, John G. and J. M., Lawrenceburg, Ind. Barrel-hoop	28,704	May 24	83	1199
Beard, Samuel H., and S. H. Shoup, Dayton, Ohio. Footstool	28,201	Jan. 18	82	457
Beatty-Brady Glass Company. (See Croskey, John H., assignor.)				
Becker, Julius, New York, N. Y. Pipe	28,787	June 7	83	1499
Becker, William H., Cando, N. D. Badge	29,483	Oct. 18	85	441
Beckers, Albert M., Philadelphia, Pa. Book-cover	28,783	June 7	83	1499
Beckrow, Albert G., Saginaw, Mich. Bicycle-stand	28,754	May 31	83	1337
Beckworth, Otto Q. (See Sprague, Charles D., assignor.)				
Bedell, Ollie, Elmore, Minn. Breast-pump	29,475	Oct. 11	85	283
Bedichimer, Isaac, Philadelphia, Pa. Badge	29,811	Dec. 20	85	1891
Behrens, Edward C., assignor to E. A. Kelly, Reading, and C. H. Loveland, Scranton, Pa. Toy	29,746	Nov. 29	85	1394
Beitner, William, and N. M. Smith, Traverse City, Mich. Stovepipe	28,146	Jan. 11	82	329
Belz, Louis C., Philadelphia, Pa. Game-board	29,482	Oct. 11	85	284
Benkert, William C., Philadelphia, Pa. Shoe-upper blank	29,202	Aug. 9	84	977
Bennett, Ernest H., East Orange, N. J., assignor to J. H. and E. Bromley, Philadelphia, Pa. Rug	28,834	June 7	83	1507
Bens, William. (See Diacont, Frank J., assignor.)				
Bens, William, Providence, R. I., assignor to Wiener Brothers, New York, N. Y. Handle for button-hooks or similar articles	29,088	July 26	84	640
Berdg, Joseph F., et al. (See Emison, Hubert H., assignor.)				
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Lamp-body	28,805	June 7	83	1502
Berger, Alfred A., and F. Herrmann, New York, N. Y. Shade-hanger bracket	29,449	Oct. 4	85	144
Bergman, Martin L. (See Taylor and Bergman.)				
Berkley, Thomas H. (See Baitinger and Berkley.)				
Bernhard, Morris, Buffalo, N. Y. Portière	29,209	Aug. 9	84	978
Bernstein, Henry, assignor to Bernstein, Kaufman & Co., Philadelphia, Pa. Trimming material	28,163	Jan. 11	82	332
Bernstein, Kaufman & Co. (See Bernstein, Henry, assignor.)				
Bernstein, William F., Philadelphia, Pa. Bedstead-post	28,475	Apr. 12	83	291
Bernstein, William F., Philadelphia, Pa. Bedstead-post	28,476	Apr. 12	83	291
Berrang & Zacharias. (See Sieghortner, August L., assignor.)				
Berryman, Robert P. A., Louisville, Ky. Puzzle-box	28,316	Feb. 22	82	1203
Best, Peter, Elizabeth, N. J. Clock-case or similar article	29,434	Oct. 4	85	141
Bettendorf, William P., Davenport, Iowa. Rolled-metal beam	29,545	Oct. 25	85	604
Bettendorf, William P., Davenport, Iowa. Rolled-metal beam	29,546	Oct. 25	85	604
Betts, Edgar K., Troy, N. Y. High turn-down collar	28,304	Feb. 15	82	1044
Betty, Thomas H., Manchester, Va. Churn-body and support	28,875	June 14	83	1654
Biedenfeld, Curt B. von, assignor to Kelley, Maus & Company, Chicago, Ill. Nut	28,212	Jan. 25	82	590
Biette, Henry C., Toronto, Canada. Toy	28,776	May 31	83	1341
Binks, Joseph, River Forest, Ill. Valve-disk	28,570	May 10	83	901
Bippart, Achill, Newark, N. J. Collar-button or stud	28,628	May 17	83	1056
Bippart, Achill, Newark, N. J. Back and shank for buttons or studs	29,225	Aug. 16	84	1132
Birk, Christian, Buffalo, N. Y. Spoke or nipple wrench	29,339	Sept. 13	84	1722
Birn, Ludwig J. W., Chicago, Ill. Roof-tile	29,904	Dec. 27	85	2085
Bishop, Alfred S. (See Corbett, George, assignor.)				
Bisshop, Gustav A., Philadelphia, Pa. Box-lid	29,172	Aug. 9	84	972
Blair, George W., Pittsburg, Pa. Lamp-chimney	29,881	Dec. 27	85	2080
Blake & Co., James E. (See Pretzer, Louis, assignor.)				
Blakesley, Alpheus M., Rock Island, Ill. Stove	28,936	June 28	83	1981
Blakesley, Gilbert H., Bristol, Conn. Garter	29,204	Aug. 9	84	977
Blakesley, George W., Rock Island, Ill. Heating-stove	28,120	Jan. 4	82	177
Blase, William O., Wilkes-Barré, Pa. Cleaner and smoke-deflector	29,288	Aug. 30	84	1249
Bless, James F., Newark, N. J. Sad-iron	28,866	June 14	83	1652
Bloomberg, William, New York, N. Y. Suspender-buckle piece	28,486	Apr. 19	83	437
Bloomington, Cornelius. (See Sherman, William D., assignor.)				
Blount, Edward, assignor to D. J. McEachern, Morven, Ga. Barrel-closure ring	28,746	May 31	83	1335
Bodker, Isidor. (See Miller and Bodker.)				
Bogert, Matthew J., Demarest, N. J. Pill-bottle	28,731	May 31	83	1332
Bogert, Matthew J., Demarest, N. J. Wooden box	29,252	Aug. 16	84	1137
Boggis, Henry, Philadelphia, Pa. Game-board	28,714	May 24	83	1201
Bole, William A., E. Ruud, and E. S. McClelland, Pittsburg, Pa. Gas-engine frame	29,800	Dec. 13	85	1731
Bolens, Harry W., Port Washington, Wis. Sickle-grinder base	28,569	May 10	83	901
Bossert, William F., Utica, N. Y. Fuse-box	29,344	Sept. 13	84	1723
Boston Woven Hose and Rubber Company. (See Cowen, Robert, assignor.)				
Bottomley, Samuel, Providence, R. I. Woven fabric	28,623	May 10	83	910



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Bowen, Joseph W., Philadelphia, Pa. Last	29,161	Aug. 2	84	803
Bowers, George S., <i>et al.</i> (See Limbert, Samuel H., assignor.)				
Bowers, Hiester A., Reading, Pa. Cover for vessels or pans	28,261	Feb. 8	82	885
Bowick, Thomas G., London, England. Motor-float	29,151	Aug. 2	84	801
Bowles, Robert C. M., Brookline, Mass. Stethoscopic instrument	28,307	Feb. 22	82	1201
Bowman, Alvin S. (See Bowman, Jeremiah B. and A. S.)				
Bowman, Jeremiah B. and A. S., Palmyra, Pa. Knife-blade	28,311	Feb. 22	82	1202
Bowman, William, Medicine Hat, Canada. Ink-well	29,361	Sept. 20	84	1858
Boyajian, Nishan M., New York, N. Y. Hair-holder	29,564	Nov. 1	85	762
Boyle, Robert E., Norristown, Pa. Game-board	29,081	July 19	84	503
Bradley, Christopher C., Syracuse, N. Y. Washer for thill-couplings	28,571	May 10	83	901
Bradley & Hubbard Mfg. Co. (See Linsley and Crooke, assignors.)				
Bradley, William J., Troy, and J. Mathisen, Lansingburg, N. Y. Horseshoe	29,712	Nov. 22	85	1216
Bradt & Shipman. (See Pringle, Eugene, assignor.)				
Branch, Elisha R., Waterville, Me. Clamp for door-securers	28,565	May 10	83	900
Brand, George, Brooklyn, N. Y. Bedstead-rail member	29,002	July 5	84	139
Brandt, Harry M., and E. Essley, Canton, Kans. Butter-stamping block	29,302	Sept. 6	84	1575
Bratsing, John, Philadelphia, Pa. Badge	28,883	June 21	83	1790
Braun, William P. M., Philadelphia, Pa. Cap for filters	28,267	Feb. 8	82	887
Bray, Oscar E., assignor of one-half to E. G. E. Ffolkes, Toronto, Canada. Knife-wheel	28,945	June 28	83	1983
Bregel, Andrew A., Jersey City, N. J. Curtain-hanger	29,669	Nov. 15	85	1070
Brennan, James S., North Attleborough, assignor to McRae & Keeler, Attleborough, Mass. Badge	29,484	Oct. 18	85	441
Brewer, W. M., <i>et al.</i> (See Goode, Frank R., assignor.)				
Brewster, Henry M., Springfield, Mass. Basin-cock	28,234	Feb. 1	82	741
Bride, William W. (See Miller, Otis H., assignor.)				
Bridgeport Novelty Manufacturing Company. (See Dean and Weir, assignors.)				
Brigden, Charles H., Waltham, Mass. Padlock-case	28,224	Feb. 1	82	740
Brill, John A., Philadelphia, Pa. Car side post or stanchion	29,583	Nov. 1	85	766
Brindley, Franklin J., Etna Green, Ind. Crook for sleighs	28,286	Feb. 15	82	1040
Brinkerhoff, Warren M., Auburn, N. Y. Section-knife for mowing-machines	28,456	Apr. 5	83	153
Brinkman, Louies H., assignor to New York Pipe Bending and Machine Company, Brooklyn, N. Y. Plumber's trap	28,567	May 10	83	900
Brockett, Atwater E., Everett, assignor to C. M. Martin, Boston, Mass. Toy bank	29,685	Nov. 15	85	1073
Broderick, John J., St. Louis, Mo., assignor to American Tire Company, New York, N. Y. Bicycle-tire	28,501	Apr. 19	83	440
Broderick, William B., Cleveland, Ohio. Fire-kindler	28,404	Mar. 22	82	1816
Brogan, Anthony D., and A. M. Malloch, Glasgow, Scotland. Surface ornamentation of glass	28,846	June 14	83	1649
Bromley, Edward, <i>et al.</i> (See Bennett, Ernest H., assignor.)				
Bromley, Edward, <i>et al.</i> (See Petzold, Adolph, assignor.)				
Bromley, John H., <i>et al.</i> (See Bennett, Ernest H., assignor.)				
Bromley, John H., <i>et al.</i> (See Petzold, Adolph, assignor.)				
Bronaugh, Robert M., <i>et al.</i> (See Minor, John O., assignor.)				
Brooks, Charles, New York, N. Y. Pattern for pipe-coverings	28,573	May 10	83	901
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal part for seals	28,343	Mar. 8	82	1550
Brough, Leroy C., Peru, Ind. Garment hook or rack	29,729	Nov. 29	85	1391
Brower, Bloomfield, New York, N. Y. Writing-pad	29,253	Aug. 16	84	1138
Brown, Benjamin C., Creston, Iowa. Shackle-bolt link	28,541	May 3	83	738
Brown, Charles F., trustee. (See White, Edward F., assignor.)				
Brown, Charles R., Newton, Mass. Sliver stopping and guiding spoon	29,536	Oct. 25	85	603
Brown, Frederick W., assignor to T. S. Paterson, Boston, Mass. Bicycle-lock	28,661	May 17	83	1060
Brown, Grace P., New York, N. Y. Bicycle or similar stocking	29,087	July 19	84	504
Brown, James L., Lancaster, Pa. Umbrella or parasol case	28,465	Apr. 12	83	289
Brown, John W., Jr., Philadelphia, Pa. Frame for fruit-seeding machines	28,607	May 10	83	907
Brown, John W., Jr., Philadelphia, Pa. Grinding-disk for mills	29,029	July 12	84	302
Brown, John W., Jr., Philadelphia, Pa. Fruit-seeder disk	29,030	July 12	84	302
Brown, John W., Jr., assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Pump-head	28,191	Jan. 18	82	455
Brown, Millard F., Kansas City, Mo. Chest or bin	29,439	Oct. 4	85	143
Brown, Robert P., Philadelphia, Pa. Paper box	29,852	Dec. 20	85	1897
Brown Saddle Company. (See Brown, Sylvester J., assignor.)				
Brown, Samuel D., Andrews Settlement, Pa. File	28,690	May 24	83	1198
Brown, Simeon and T. P., Purity, Ohio. Washing-machine plunger	28,658	May 17	83	1060
Brown, Sylvester J., Denver, Colo., assignor, by mesne assignments, to Brown Saddle Company, Elyria, Ohio. Bicycle-saddle seat	29,247	Aug. 16	84	1137
Brown, Thomas P. (See Brown, Simeon and T. P.)				
Brown, Thomas W., Belmont, Mass. Egg-beater handle	29,873	Dec. 27	85	2079
Brown, William A., New York, N. Y. Spoon	29,354	Sept. 20	84	1856
Brown, William A., New York, N. Y. Spoon	29,355	Sept. 20	84	1856
Brown, William A., New York, N. Y. Spoon	29,661	Nov. 15	85	1069
Brown, William A., New York, N. Y. Spoon	29,662	Nov. 15	85	1069
Brown, William C., Bridgeport, Conn. Trading-stamp	28,784	June 7	83	1499
Brown, William M., Johnstown, Pa., assignor to Lorain Steel Company, of Ohio. Contact-box cover	29,795	Dec. 13	85	1730
Brown, Worthington, Hannibal, Mo. Trace-fastener	28,741	May 31	83	1334
Browne, William G., Kingston, N. Y. Can-opener	29,231	Aug. 16	84	1133
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-camera body	29,376	Sept. 20	84	1861
Brownell, Ralph E., assignor to W. H. Dietz, Chicago, Ill. Savings-bank	29,133	Aug. 2	84	798
Brubaker, Andrew, Ashland, Ohio. Combined funnel and measure	29,377	Sept. 20	84	1861
Brundage, James W., Montgomery City, Mo. Kitchen-cabinet	28,667	May 17	83	1062
Brundrett, Ernest L. (See Page and Brundrett.)				
Brunhoff, Edward, Cincinnati, Ohio. Casing or frame for vending-machines	28,856	June 14	83	1630
Brunnworth, F. William. (See Tabor, William B., assignor.)				
Brunt, Henry, Baltimore, Md. Plate	28,840	June 14	83	1647
Brunt, Henry, Baltimore, Md. Pitcher	29,878	Dec. 27	85	2079
Bryant, Louis E. (See Overton and Bryant.)				
Bryce, Howard M., assignor to A. A. Vantine & Co., New York, N. Y. Fabric	28,676	May 17	83	1063
Bucher & Gibbs Plow Company. (See Ream, George W., assignor.)				
Buckeye Manufacturing Company. (See Lambert, George A., assignor.)				
Buck's Stove and Range Company. (See Thompson, William, assignor.)				
Buel, Albert W., assignor of one-half to D. L. Hough, New York, N. Y. Channel-bar for tunnel or similar casings	28,952	June 28	83	1984
Buell, Arthur H., Herndon, Va. Necktie-fastener	29,871	Dec. 27	85	2078
Buerkle, August, Allegheny, Pa. Case or shell for water-heaters	29,584	Nov. 1	85	767



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Name, residence, and design.	No.	Date.	Official Gazette.	
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Buick, David D., Detroit, Mich. Bath-tub	29,677	Nov. 15	85	1072
Buick, David D., Detroit, Mich. Faucet	29,705	Nov. 22	85	1215
Buick, David D., Detroit, Mich. Water-closet tank	29,845	Dec. 20	85	1896
Bunel, Alfred, New Rochelle, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	29,804	Dec. 13	85	1731
Bunker, William I., La Grange, Ill. Saddle-cushion	28,337	Mar. 1	82	1412
Bunker, William I., La Grange, Ill. Saddle-seat	28,583	May 10	83	903
Bunker, William I., La Grange, Ill. Saddle-seat	28,756	May 31	83	1337
Bunker, William I., La Grange, Ill. Saddle-seat	28,757	May 31	83	1337
Bunker, William I., La Grange, Ill. Saddle-seat	28,758	May 31	83	1337
Bunker, William I., La Grange, Ill. Saddle-seat	28,759	May 31	83	1337
Bunker, William I., La Grange, Ill. Saddle-seat	28,901	June 21	83	1793
Bunker, William I., La Grange, Ill. Saddle-seat	28,902	June 21	83	1793
Bunker, William I., La Grange, Ill. Saddle-spring	29,745	Nov. 29	85	1394
Bunker, William I., La Grange, Ill. Cushion for soles	29,749	Nov. 29	85	1394
Bunnell, Jesse H., New York, N. Y. Sofa	29,640	Nov. 8	85	927
Buntin, John C., Mitchellville, Tenn. Stirrup	29,416	Sept. 27	84	2011
Burdick, Bainbridge W., Albany, N. Y. Plate-keeper shell	28,762	May 31	83	1338
Burdick, Bainbridge W., Albany, N. Y. Founder's core-supporting shell	28,763	May 31	83	1338
Burdick, Bainbridge W., Albany, N. Y. Stove-door-catch shell	28,764	May 31	83	1338
Buren, Elmer P., Santa Ana, Cal. Trousers-protector	29,162	Aug. 2	84	803
Burger, Franz. (See Williams, Henry M., assignor.)				
Burley, Frank E., Chicago, Ill. Pitcher	29,757	Dec. 6	85	1577
Burley, George H., Tyrone, Pa. Steam and hot-water heater-section	29,506	Oct. 18	85	445
Burnett, Robert M., Southborough, Mass. Bottle	29,493	Oct. 18	85	442
Burrows, R. O., et al. (See Goode, Frank R., assignor.)				
Burrows, Thomas A. (See Clothier and Burrows.)				
Burt, John W., Cascilla, Miss. Colter attachment for plows	29,547	Oct. 25	85	605
Burtch, Frank F., Fonda, N. Y. Broom-handle	28,121	Jan. 4	82	177
Burton, Bedford F., et al. (See Prentis, George P., assignor.)				
Buschner, Carl F., New York, N. Y. Fringe	28,621	May 10	83	910
Bush, C. A., et al. (See Minor, John O., assignor.)				
Bushnell, Lemuel M. (See Vaughan and Bushnell.)				
Bushnell, Lemuel M., and S. S. Vaughan, assignors to Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Wrench	29,109	July 26	84	644
Butler, Dennis, Custer, S. D. Railway-spike	29,189	Aug. 9	84	974
Butler Hard Rubber Company. (See Gurnee, Isaac Q., assignor.)				
Butler, Harold R., New York, N. Y. Puzzle board or box	28,371	Mar. 8	82	1555
Butler, Maguler, Rochester, N. Y. Bicycle-holder	28,228	Feb. 1	82	740
Butterfield Brothers. (See Klumpp, Herman J., assignor.)				
Buttler, William, Redkey, Ind. Sheet or plate glass	28,847	June 14	83	1649
Buttler, William, Redkey, Ind. Tumbler	29,813	Dec. 20	85	1891
Button, Myrtie. (See Hart, Charles W., assignor.)				
Byrnes, William E., Cleveland, Ohio. Basin-clamp	29,232	Aug. 16	84	1133
C. A. Edgarton Manufacturing Company. (See Edgarton, Charles F., assignor.)				
C. T. Ham Manufacturing Company. (See Bergener, Charles, assignor.)				
Calcium King Lamp Company. (See White, Frederick L., assignor.)				
Caldwell & Co., J. E. (See Van Roden, George C., assignor.)				
Caldwell, Henry W., Pulaski, N. Y. Buggy-top support	29,156	Aug. 2	84	801
Camenisch, William C., Chicago, Ill. Fireplace-front	29,716	Nov. 22	85	1217
Cameron, Alexander, Jr., Richmond, Va. Cover for boxes or cans	28,405	Mar. 22	82	1816
Cameron, Brock, assignor of one-half to W. B. Ker, Guelph, Canada. Ink-bottle	28,633	May 17	83	1057
Canedy, Ernest E., North Adams, Mass. Holder for shoe-racks	29,334	Sept. 13	84	1721
Capewell, George J., Hartford, Conn. Railway-rail	29,833	Dec. 20	85	1824
Carey, George F., New York, N. Y. Tip for hay-forks	29,068	July 19	84	500
Carlisle, James C., et al. (See Emison, Hubert H., assignor.)				
Carson, John H., Tarrytown, N. Y. Cash-register case	28,223	Feb. 1	82	739
Carter, William J., and G. J. Holmes, Chicago, Ill. Necktie	29,911	Dec. 27	85	2086
Carver, Susan, Sharon, Pa. Button-plate	29,328	Sept. 13	84	1721
Cary, Spencer C., Baldwin, N. Y. Box-fastener	28,142	Jan. 11	82	328
Cary, Spencer C., Brooklyn, N. Y. Pipe-fastener	28,422	Mar. 29	82	1980
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Casing for door-checks	29,042	July 12	84	304
Casey, John, and M. S. Chism, Philadelphia, Pa. Spectacle-case	29,696	Nov. 22	85	1213
Caspar, Ruben, Attleborough, Mass. Cuff-holder	28,972	July 5	84	134
Cater, Daniel, Silver Lake, Tex. Railway-brace	29,445	Oct. 4	85	144
Chamberlin, Charles E., Detroit, Mich. Bar	29,345	Sept. 13	84	1723
Chase, Frank B., and E. P. Redfield, New York, N. Y. Duplicate-whist board	28,959	June 28	83	1986
Chandler & Taylor Company. (See Chandler and Dodds, assignors.)				
Chandler, Thomas E., and E. Dodds, assignors to Chandler & Taylor Company, Indianapolis, Ind. Engine-bed	28,288	Feb. 15	82	1041
Chéron, Pierre J., New York, N. Y., assignor to F. H., and F. Fuchs, Jersey City, N. J. Border for silverware	28,504	Apr. 26	83	588
Cheshire Manufacturing Company. (See Ives, Frederick A., assignor.)				
Chism, Murray S. (See Casey and Chism.)				
Church, Duane H., Newton, Mass. Balance-staff	29,820	Dec. 20	85	1892
Churchill, Frank L., assignor to M. T. Churchill, Buffalo, N. Y. Necktie-holder	28,116	Jan. 4	82	176
Churchill, May T. (See Churchill, Frank L., assignor.)				
Clappison, John H., Easton, Pa. Shoe-upper	28,277	Feb. 8	82	889
Clark, Alvah B., Springfield, Mass. Ice-shaver	28,988	July 5	84	136
Clark, George H., Boston, Mass. Protecting-strip for wheel-tires	28,381	Mar. 15	82	1683
Clark, William M., Boscobel, Wis. Bag-tie	29,853	Dec. 20	85	1897
Clarke, Hiram C., West Winfield, N. Y. Puzzle-box	28,614	May 10	83	909
Clarke, John H., Framingham, Mass. Hat-fastener	28,791	June 7	83	1500
Clas, Alfred C., assignor to Milwaukee Carnival Association, Milwaukee, Wis. Badge or similar article	28,625	May 17	83	1056
Clauss, Henrie, Fremont, Ohio. Razor-sack	29,020	July 12	84	300
Clay, Harry C., assignor to Reeves & Co., Columbus, Ind. Separator or clover-huller tooth	29,894	Dec. 27	85	2083
Clayton, Herbert, New York, N. Y. Gas-fixture	29,733	Nov. 29	85	1392
Cleveland Co-Operative Stove and Hollow Ware Foundry Company. (See Baldwin, William W., assignor.)				
Cleveland Machine Screw Company. (See Cummings, John C., assignor.)				
Cleveland Target Company. (See North, Paul, assignor.)				
Cline, Leon, Chicago, Ill. Shower-bath ring	29,901	Dec. 27	85	2084
Clogg, Levin H., New York, N. Y. Pendant for umbrella-handles	28,222	Feb. 1	82	739
Clothier, Conrad F., Jr., and T. A. Burrows, Philadelphia, Pa. Rear stay for bicycles	29,526	Oct. 18	85	449
Clouser, Samuel F., New York, N. Y. Washer	29,541	Oct. 25	85	604



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Clowes, George H. (See Goeltz, William F., assignor.)				
Clowes, George H. (See White, Frederick L., assignor.)				
Cluin, John J., Lowell, Mass. Badge	28,884	June 21	83	1790
Clulee, John, assignor to Simpson Hall Miller & Company, Wallingford, Conn. Handle for spoons, forks, &c	28,525	May 3	83	736
Clulee, John, assignor to Simpson, Hall, Miller & Company, Wallingford, Conn. Handle for spoons, forks, &c	29,215	Aug. 16	84	1131
Cocke, George M., and E. Seidel, Milwaukee, Wis. Radiator	28,199	Jan. 18	82	457
Codman, William C., Providence, R. I. Back for hand-mirrors or similar articles	29,530	Oct. 25	85	602
Codman, William C., Providence, R. I. Back for brushes or similar articles	29,531	Oct. 25	85	602
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, &c	29,261	Aug. 23	84	1276
Cody, Maria, St. Louis, Mo. Bread-box	29,758	Dec. 6	85	1577
Cochran Chair Co. (See Franz, John, assignor.)				
Coffman, James H., Columbus, Ohio, assignor to Wisconsin Chair Company, Port Washington, Wis. Bent-wood chair-seat	29,303	Sept. 6	84	1575
Coleman, Aaron, New York, N. Y. Suspender-buckle	28,560	May 10	83	900
Coles, Walter S., Cincinnati, Ohio. Whist-tray	29,004	July 5	84	139
Comonn, Isaac, New York, N. Y. Muff	29,256	Aug. 23	84	1275
Computing Scale Company. (See Ozias, Orange O., assignor.)				
Comstock, William A., Cleveland, Ohio. Coiled-wire spring for beds, &c	28,896	June 21	83	1792
Conant, James S., Boston, Mass. Card	28,375	Mar. 15	82	1682
Conboy, Daniel, Toronto, Canada. Plate for buggy-tops	29,419	Sept. 27	84	2011
Congdon, Frank H., East Greenwich, R. I. Separator	28,293	Feb. 15	82	1042
Conley, Lewis S. (See Lake and Conley.)				
Conlin, Robert E., Poughkeepsie, N. Y. Hair-crimper member	28,796	June 7	83	1501
Connally, George R., Shannon, Miss. Attachment for grates	29,442	Oct. 4	85	143
Connelly, John S., Titusville, Pa. Frame for reflecting-spectacles	28,887	June 21	83	1791
Conner, Florence F., Cincinnati, Ohio. Harness gag-runner	28,235	Feb. 1	82	741
Conner, Florence F., Cleveland, Ohio. Bridle-bit side bar	29,703	Nov. 22	85	1214
Conner, Frederick J., Waterville, Me. Badge or similar article	28,523	May 3	83	736
Connor, Edward T., Iliopolis, Ill. Washer for nut-locks	28,951	June 28	83	1984
Consolidated Car-Heating Company. (See McElroy, James F., assignor.)				
Conway, Joseph L., Sioux City, Iowa. Box-lid holder	28,531	May 3	83	737
Conway, Joseph L., Sioux City, Iowa. Box-lid support	29,643	Nov. 8	85	927
Conway, Stephen S., assignor to Armour & Co., Chicago, Ill. Meat-can	28,989	July 5	84	136
Cook, Geraldine O., Boston, Mass. Undergarment-body	29,912	Dec. 27	85	2086
Cook, Lewis P., New York, N. Y. Loving-cup	28,732	May 31	83	1332
Cooper, William S., Birmingham, Ala. Medicine-case and desk	28,710	May 24	83	1201
Co-Operative Foundry Company. (See Kennedy, Thomas R., assignor.)				
Co-Operative Foundry Company. (See Kennedy and King, assignors.)				
Copeland, James S., Hartford, Conn. Gear-case	28,432	Mar. 29	82	1982
Copeland, James S., Hartford, Conn. Frame for bicycles	28,477	Apr. 12	83	291
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Bicycle-frame	28,587	May 10	83	904
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Bicycle-frame	28,588	May 10	83	904
Corbett, George, New York, N. Y., assignor to A. S. Bishop, trustee, Pittsburg, Pa. Badge	28,677	May 24	83	1195
Corbin, Donald R., New York, N. Y. Scarf-pin or similar article	29,055	July 19	84	498
Cornell, Benjamin F., Chicago, Ill. Arm for display-stands	28,364	Mar. 8	82	1553
Corral, Francisco J. del, assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Bung-hole borer	29,024	July 12	84	301
Corscaden, Adeline J., administratrix. (See Corscaden, Thomas.)				
Corscaden, Thomas, deceased, Philadelphia, Pa.; A. J. Corscaden, administratrix. Wheel	29,542	Oct. 25	85	604
Corscaden, Thomas, New Britain, Conn., assignor to American Pulley Company, Philadelphia, Pa. Pulley	29,543	Oct. 25	85	604
Coulter, James A., Ingersoll, Canada. Bicycle-hub	28,702	May 24	83	1199
Court, Charles S. (See Crees and Court.)				
Court Perfumery Company. (See Barrie, Alexander, assignor.)				
Court Perfumery Company. (See Jacobus, Herbert H., assignor.)				
Cousins, Willard C., Ferrum, Va. Indicator	29,492	Oct. 18	85	442
Cowen, Robert, Cambridge, assignor to Boston Woven Hose and Rubber Company, Boston, Mass. Elastic tire	28,586	May 10	83	904
Cox, Wallace M., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,128	Jan. 4	82	178
Cox, Wallace M., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,129	Jan. 4	82	178
Crandon, Sanford, <i>et al.</i> (See Peters, Heber C., assignor.)				
Crandon, Sanford, <i>et al.</i> (See Whitcher, Frank W., assignor.)				
Crane, Newton, Newton, Mass. Fastening member	29,538	Oct. 25	85	603
Crane, Newton, Newton, Mass. Clasp member	29,539	Oct. 25	85	603
Crary, William P., New York, N. Y. Lamp-body	29,789	Dec. 13	85	1729
Crawford, Samuel S., <i>et al.</i> (See Ives, Henry, assignor.)				
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to Watson, Newell Company, Attleborough, Mass. Handle for spoons, &c	28,167	Jan. 18	82	451
Crees, Eustace, and C. S. Court, assignors to Waite, Thresher Company, Providence, R. I. Handle for button-hooks or similar articles	28,554	May 10	83	899
Crees, Eustace, and C. S. Court, assignors to Waite, Thresher Company, Providence, R. I. Handle for button-hooks or similar articles	23,555	May 10	83	899
Crees, Eustace, and C. S. Court, assignors to Waite, Thresher Company, Providence, R. I. Handle for button-hooks or similar articles	23,556	May 10	83	899
Crees, Eustace, and C. S. Court, assignors to Waite, Thresher Company, Providence, R. I. Handle for button-hooks or similar articles	28,557	May 10	83	899
Crees, Eustace, and C. S. Court, assignors to Waite, Thresher Company, Providence, R. I. Handle for button-hooks, &c	28,921	June 28	83	1978
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to H. H. Curtis, North Attleborough, Mass. Handle for button-hooks or similar articles	29,016	July 12	84	300
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to G. K. Webster, North Attleborough, Mass. Back for brushes or similar articles	29,216	Aug. 16	84	1131
Creque, Allen P., Newark, N. J. Washbasin	28,119	Jan. 4	82	176
Creveling, John L., New York, N. Y. Reflector	29,471	Oct. 11	85	233
Croasdale, Robert. (See Hollenbeck, Frank A., assignor.)				
Crocker, Ara D., assignor to Crocker Chair Company, Sheboygan, Wis. Chair or stool	29,395	Sept. 20	84	1864
Crocker, Ara D., assignor to Crocker Chair Company, Sheboygan, Wis. Chair or stool	29,396	Sept. 20	84	1864
Crocker, Ara D., assignor to Crocker Chair Company, Sheboygan, Wis. Chair or stool	29,397	Sept. 20	84	1864
Crocker, Ara D., assignor to Crocker Chair Company, Sheboygan, Wis. Chair	29,849	Dec. 20	85	1897
Crocker Chair Company. (See Crocker, Ara D., assignor.)				
Crooke, Reuben F. (See Linsley and Crooke.)				
Crooker, Herman D., Alvin, Tex. Clothes-pounder	29,412	Sept. 27	84	2010



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Croskey, John H., assignor to Beatty-Brady Glass Company, Dunkirk, Ind. Pitcher	29,364	Sept. 20	84	1858
Cross, George H., St. Johnsbury, Vt. Corn-cake	29,882	Dec. 27	85	2080
Crouch, George, New York, N. Y. Trunk-slat	28,563	May 10	83	900
Crouch, George, New York, N. Y. Trunk-slat	28,564	May 10	83	900
Crowe, Eugene A., Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	28,251	Feb. 1	82	744
Crowe, Eugene A., Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	28,252	Feb. 1	82	744
Crowe, Eugene A., Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	28,278	Feb. 8	82	889
Crowe, Eugene A., Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	28,279	Feb. 8	82	889
Crowe, Eugene A., Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	28,280	Feb. 8	82	889
Cruckshank, Arthur B., London, England, assignor to himself, and J. Frace, San Francisco, Cal. Syringe-bulb	29,409	Sept. 27	84	2009
Cumming, John F., Worcester, Mass., assignor to American Type Founders Company, Newark, N. J. Font of printing-type	29,480	Oct. 11	85	284
Cumming, Paul R., assignor of one-half to C. I. Pettibone, Kansas City, Mo. Window-cleaner	28,990	July 5	84	136
Cummings, Charles W., assignor to S. B. Rowley, Philadelphia, Pa. Oil-can body	29,622	Nov. 8	85	924
Cummings, George K., New York, N. Y. Prism-light	28,218	Jan. 25	82	591
Cummings, George K., New York, N. Y. Prism-window	29,805	Dec. 13	85	1732
Cummings, George K., New York, N. Y. Prism-window	29,806	Dec. 13	85	1732
Cummings, George K., New York, N. Y. Prism-window	29,807	Dec. 13	85	1732
Cummings, George K., New York, N. Y. Prism-window	29,808	Dec. 13	85	1732
Cummings, George K., New York, N. Y. Prism-window	29,809	Dec. 13	85	1733
Cummings, George K., New York, N. Y. Prism-window	29,810	Dec. 13	85	1733
Cummings, John C., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Dust-cap for ball-bearings	29,522	Oct. 18	85	448
Cuppia, Caesar A., New York, N. Y. Condiment-holder	28,259	Feb. 8	82	885
Cuppia, Caesar A., New York, N. Y. Knob for vessels	28,260	Feb. 8	82	885
Curtice, William H., Louisville, Ky. Flour-tank	28,718	May 24	83	1202
Curtis, Henry H. (See Crees and Court, assignors.)				
Curtis, Henry H. (See Diacont, Frank J., assignor.)				
Curtis, Henry H. (See Straker, Joseph E., Jr., assignor.)				
Curtis, Henry H., North Attleborough, Mass. Handle for spoons, &c.	28,408	Mar. 29	82	1977
Cushman, Joseph W., New York, N. Y. Oil-cup or oiler	29,076	July 19	84	502
Cushman, Joseph W., assignor of one-half to G. F. Wilcoxson, New York, N. Y. Oil-can	28,225	Feb. 1	82	740
Cushman, Joseph W., assignor of one-half to G. F. Wilcoxson, New York, N. Y. Oil-can	28,580	May 10	83	903
D. M. Osborne & Company. (See Sharp, Charles S., assignor.)				
Damper, William W., Wesson, Miss. Rack-bar for sash-locks	29,147	Aug. 2	84	800
Dana, William H., Columbus, Ohio. Ironing-board	28,202	Jan. 18	82	457
Dangler Stove and Manufacturing Company. (See Ruppel, Henry, assignor.)				
Daniels, Robert E., Youngstown, Ohio. Corner-protector strip	28,509	Apr. 26	83	539
Dantzebecher, Howe E., Philadelphia, Pa. Kite-frame	28,905	June 21	83	1793
Danum, William C., Franklin, La. Stovepipe-section and hot-water tank	29,027	July 12	84	302
Darrell, Clarence, Flatts, Bermuda. Bicycle-pump	29,577	Nov. 1	85	765
Daschbach, Edward J., Pittsburg, Pa. Gas-burner	28,699	May 24	83	1199
Daschbach, Edward J., Pittsburg, Pa. Gas-burner	29,839	Dec. 20	85	1895
Datz, Albert, Jersey City, N. J. Paper-box blank	29,593	Nov. 1	85	769
Davidson, Frank A., Boston, Mass., assignor to Theodore Metcalf Company, Portland, Me. Carton-blank	29,644	Nov. 8	85	928
Davie, Henry H. F., Riverton, N. J. Horseshoe-pad	29,713	Nov. 22	85	1216
Davies, Benjamin, West Hoboken, N. J., assignor to L. Straus & Sons, New York, N. Y. Bowl or vessel	28,733	May 31	83	1333
Davies, Thomas W., St. Louis, Mo., assignor to himself and F. T. Long. Shaft-tug	29,383	Sept. 20	84	1862
Davis, Charles W. and M. R., Peotone, Kans. Gang-frame for cultivators	28,747	May 31	83	1335
Davis, Francis G., assignor to H. H. Babcock Company, Watertown, N. Y. Ambulance-body	29,392	Sept. 20	84	1863
Davis, Morton R. (See Davis, Charles W. and M. R.)				
Davis, James M. (See Foutch, Adelbert E., assignor.)				
Davis, Robert H., et al. (See Gatewood, Cortez, assignor.)				
Davidson, Augustine C., Birmingham, England. Lamp-body	29,672	Nov. 15	85	1071
De Bevoise, Charles R., New York, N. Y. Underwaist	29,100	July 26	84	642
De Bevoise, Charles R., New York, N. Y. Underwaist	29,424	Sept. 27	84	2012
De Hart, Harry A., Thorofare, N. J. Wagon-body	28,703	May 24	83	1199
Dean, Albert H., and R. F. Weir, Bridgeport, Conn. Bicycle-lock casing	28,226	Feb. 1	82	740
Dean, Albert H., and R. F. Weir, assignors to Bridgeport Novelty Manufacturing Company, Bridgeport, Conn. Bicycle-lock casing	28,403	Mar. 22	82	1816
Dean, Oscar A., Bethel, Vt. Paper-file	29,487	Oct. 18	85	441
Deem, Miller M., assignor of one-half to P. & F. Manufacturing Co., Reading, Pa. Pommel-cushion for velocipede-saddles	29,078	July 19	84	502
Deitsch, Charles and E. J., New York, N. Y. Toilet-satchel or bicycle-bag	28,114	Jan. 4	82	176
Deitsch, Edward J. (See Deitsch, Charles and E. J.)				
Dennett, Fred A., Sheboygan, Wis. Bent-wood chair-seat	28,611	May 10	83	908
Dennett, Fred A., Sheboygan, Wis. Bent-wood chair-seat	29,235	Aug. 16	84	1134
Des Moines Incubator Company. (See Gilcrest, Jacob K., assignor.)				
Detmers, Henry J. (See Robinson and Detmers.)				
Dettelbach, Benjamin, Cleveland, Ohio. Basin-clamp	28,652	May 17	83	1059
Dewey, Walter E., Philadelphia, Pa. Vaginal syringe	29,141	Aug. 2	84	799
Diacont, Frank J., assignor to W. Bens, Providence, R. I. Handle for button-hooks or similar articles	29,017	July 12	84	300
Diacont, Frank J., Providence, R. I., assignor to H. H. Curtis, North Attleborough, Mass. Handle for button-hooks or similar articles	29,018	July 12	84	300
Dickinson, Marquis F., Jr., et al., executors. (See Wormwood, Samuel P.)				
Dieffenbacher, Joseph A., York, Nebr. Dry measure	28,736	May 31	83	1333
Diesel, Conrad, Chicago, Ill. Sheet-metal can	29,180	Aug. 9	84	973
Diesterweg, Louis, assignor of one-half to G. J. Fliehmann and G. Ittner, St. Louis, Mo. Box-cover brace	29,391	Sept. 20	84	1863
Dietz, William H. (See Brownell, Ralph E., assignor.)				
Dikeman, Charles S., Torrington, Conn. Sprocket wheel or gear	29,450	Oct. 4	85	144
Dill, William F., et al. (See Levering, Mark S., assignor.)				
Dingee, William W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Separator-sieve	28,987	July 5	84	135
Dippert, William E., Des Moines, Iowa. Rein-guard	28,399	Mar. 22	82	1815
Dippert, William E., Des Moines, Iowa. Trace-carrier	29,515	Oct. 18	85	447
Dittmar, John, New York, N. Y. Cigar-case	29,221	Aug. 16	84	1132
Dixon, Harvey A., Port Huron, Mich. Body for children's carriages	28,313	Feb. 22	82	1203



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Dixon, Robert M., East Orange, N. J. Pressure-gage case	28,291	Feb. 15	82	1041
Dixon, Robert M., East Orange, N. J. Hose-coupling member	29,148	Aug. 2	84	800
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, of New York. Gas-receiver	29,174	Aug. 9	84	972
Dobbie, John, Leith, Scotland. Reversible cutter for stone-dressing	29,185	Aug. 9	84	974
Dodds, Elihu. (See Chandler and Dodds.)				
Dodge, Charles H. (See Rotharmel and Dodge.)				
Dolby, Thomas G. F., Elgin, Ill. Tub-fastening	29,072	July 19	84	501
Dolson, Harry, and B. G. Appleby, Saginaw, Mich. Bicycle-stand	28,458	Apr. 5	83	153
Donahoe, Hedley J., Chicago, Ill. Fence-post	29,316	Sept. 6	84	1578
Donaldson, Elizabeth C., Detroit, Mich. Mustache-guard	29,059	July 19	84	498
Donnell, Harry E., assignor to S. F. Hayward & Company, New York, N. Y. Hose-reel spool	29,104	July 26	84	643
Donovan, James, assignor to Roberts, Throp & Company, Three Rivers, Mich. Foot-guard for switches	28,494	Apr. 19	83	489
Dooley, John S., St. Louis, Mo. Water-heater for gas-stoves	28,427	Mar. 29	82	1981
Doran, John W., assignor to Wilkes Barre Lace Manufacturing Company, Wilkes-Barre, Pa. Curtain-border	29,458	Oct. 4	85	146
Dowd, Henry C., Carthage, N. C. Hoe	28,811	June 7	83	1503
Dowdall, James T. (See Lintner and Dowdall.)				
Drake, William F., <i>et al.</i> (See Ives, Henry, assignor.)				
Draper Company. (See Draper, George O., assignor.)				
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Detector for warp stop-motions	29,500	Oct. 18	85	444
Draper, Lucius D., Boston, Mass. Plate for garment-supporters	28,467	Apr. 12	83	289
Dressel, Frederick W., New York, N. Y. Lamp-burner	28,417	Mar. 29	82	1979
Dreyer, Francis H., New York, N. Y. Ash-pan sifter	29,441	Oct. 4	85	143
Driscoll, William W. (See Thomas and Driscoll.)				
Dryfoos & Co., L. (See Keil, William, assignor.)				
Du Bois, Benjamin F., New York, N. Y. Side-bar spring	29,579	Nov. 1	85	766
Du Brul, Napoleon, Cincinnati, Ohio. Table for cigar-wrapper-cutting machines	28,292	Feb. 15	82	1042
Du Brul, Napoleon, Cincinnati, Ohio. Machine-plate	28,657	May 17	83	1060
Dueber, John C., Canton, Ohio. Watch-movement plate	28,319	Mar. 1	82	1409
Dueber, John C., Canton, Ohio. Watch-movement plate	28,320	Mar. 1	82	1409
Dueber, John C., Canton, Ohio. Watch-movement plate	28,321	Mar. 1	82	1409
Duke, John F., London, England. Flag or banner	29,052	July 19	84	497
Dumontier, Alexander C., Detroit, Mich. Lunch and parcel carrier	28,241	Feb. 1	82	742
Dunbar, Anna E., Albany, N. Y. Body for waist-belts	29,097	July 26	84	641
Dunlap & Son, John. (See Fromuth, August G., assignor.)				
Dunn, Claude A., Denver, Colo. Bicycle-chain link	28,195	Jan. 18	82	456
Dunn, Claude A., Denver, Colo. Bicycle-chain link	28,196	Jan. 18	82	456
Dunn, Claude A., Denver, Colo. Sprocket-wheel	29,142	Aug. 2	84	799
Dunton, Delos, and E. A. Hendricks, assignors to Star Manufacturing Company, Carpentersville, Ill. Die	28,208	Jan. 25	82	589
Dunton, Delos, and E. A. Hendricks, assignors to Star Manufacturing Company, Carpentersville, Ill. Die	28,209	Jan. 25	82	590
Dye, Harlan P., Lake Worth, Fla. Bottle	29,615	Nov. 8	85	922
Dyer, Leonard H., Washington, D. C. Frame for vehicles	29,772	Dec. 6	85	1579
Dyett, James H., Buffalo, N. Y. Bed-bottom-supporting frame	29,844	Dec. 20	85	1896
E. J. Brooks & Company. (See Brooks, Edward J., assignor.)				
E. S. Higgins Carpet Company. (See Bunel, Alfred, assignor.)				
E. S. Higgins Carpet Company. (See Crowe, Eugene A., assignor.)				
Eames, Roger B., South Framingham, Mass. Bicycle handle-bar	29,527	Oct. 18	85	449
Easterly, Eugene, assignor to Sill Stove Works, Rochester, N. Y. Water-front frame	28,514	Apr. 26	83	589
Eastman, George P., Toronto, Canada. Frame for electrically-operated cloth-cutters	29,000	July 5	84	138
Eastwood & Park. (See Schlecker, Herman F. W., assignor.)				
Eckhardt, Fredrick C., North Wales, Pa. Hat	29,006	July 5	84	139
Eckstein, Albert, New York, N. Y. Hook for garment-fasteners	28,535	May 3	83	737
Eclipse Stove Company. (See Lewis, Henry M., assignor.)				
Edgerton, Charles F., assignor to C. A. Edgerton Manufacturing Company, Shirley, Mass. Suspender-end	28,792	June 7	83	1500
Edison, George M., and J. Wheeler, Grand Rapids, Mich. Hot-air furnace	29,295	Aug. 30	84	1430
Edwards, Isaac L., Aurora, Ill. Tie-plate or chair	29,764	Dec. 6	85	1578
Edwards, Jenkyn, Hanley, England. Book or music support	29,533	Oct. 25	85	602
EGge, Conrad, Boston, assignor to James E. Blake & Company, Attleborough, Mass. Back for brushes or similar articles	29,121	Aug. 2	84	796
EGge, Frederick, Bridgeport, Conn. Lace-fastener	28,902	Feb. 15	82	1043
EGge, Gustave C., assignor to G. K. Webster, North Attleborough, Mass. Back for brushes or similar articles	28,632	May 17	83	1057
Ehrlich, William, assignor to New York Desk and Dining Room Furniture Company, New York, N. Y. Stand for tables	28,366	Mar. 8	82	1554
Ehrman, Edwin H., Chicago, Ill. Pedal tread-piece for bicycles	28,314	Feb. 22	82	1203
Einfeld, William J. (See Harris, Max, assignor.)				
Eldon, Charles H., Williamsport, Pa. Handle-bar grip for bicycles	28,992	July 5	84	136
Eldridge, Herbert M. and R. C., Niagara, Canada. Stall-fixture	29,071	July 19	84	501
Eldridge, Reuben C. (See Eldridge, Herbert M. and R. C.)				
Electro Lamp Company. (See Iden, Charles W., assignor.)				
Elliott, William H., Red Bank, N. J. Sewer's tree	28,473	Apr. 12	83	290
Ellrich, Robert C., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Wrench-frame	28,512	Apr. 26	83	589
Ellsworth, Herbert, assignor to W. Noville, Cleveland, Ohio. Umbrella-stand	28,466	Apr. 12	83	289
Elmberg, Ernest F., Chicago, Ill. Puzzle-box	28,205	Jan. 18	82	458
Emison, Hubert H., Tipton, Ind., assignor of two-thirds to J. F. Berdg and J. C. Carlisle, Fostoria, Ohio. Casing for spark-arresters	28,493	Apr. 19	83	438
Emley, Ellsworth, Lancaster, Ohio. Gage-tool	28,398	Mar. 22	82	1815
Endie, Karl, Sandusky, Ohio. Spittoon-cover	28,862	June 14	83	1651
Enterprise Manufacturing Company. (See Corral, Francisco J. del, assignor.)				
Enterprise Manufacturing Company of Pennsylvania. (See Brown, John W., Jr., assignor.)				
Enyart, Ralph C., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Rotary-pump impeller	28,217	Jan. 25	82	591
Enyart, Ralph C., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Head for rotary pumps	28,491	Apr. 19	83	438
Epstein, Morris, New York, N. Y. Cigar-case	28,176	Jan. 18	82	452
Essley, Elmer. (See Brandt and Essley.)				
Estes, Webster C., Brooklyn, N. Y. Wooden box	28,414	Mar. 29	82	1978
Estes, Webster C., New York, N. Y. Wooden box	28,637	May 17	83	1057
Estes, Webster C., New York, N. Y. Wooden box	28,642	May 17	83	1058
Etters, John C., Canton, Pa. Bag or sack holder	29,676	Nov. 15	85	1071



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Eustis, John P., Newton, Mass. Tea or coffee pot strainer.....	28,886	June 21	83	1790
Eustis, John P., Newton, Mass. Tea-strainer.....	29,058	July 19	84	498
Evarts, John M., <i>et al.</i> (See Minor, John O., assignor.)				
Everitt, James A., Indianapolis, Ind. Atomizer-body.....	28,643	May 17	83	1058
Everitt, James A., Indianapolis, Ind. Hopper for seed-planters.....	28,660	May 17	83	1060
Evolution Cycle Company. (See Nichols, Marion L., assignor.)				
Facer Forged Steel Car Wheel and Locomotive Wheel Company. (See Facer, James A., assignor.)				
Facer, James A. assignor to Facer Forged Steel Car Wheel and Locomotive Wheel Company, Philadelphia, Pa. Car-wheel blank.....	29,388	Sept. 20	84	1863
Fairchild, Le Roy C., New York, N. Y. Pencil-case barrel.....	28,838	June 14	83	1647
Faries, Francis L., Bellwood, Pa. Bouquet-holder for bicycles.....	28,162	Jan. 11	82	332
Faries, Robert, Decatur, Ill. Holder for shades of incandescent lamps.....	28,596	May 10	83	903
Farmer, Hiram W. (See Linton and Farmer.)				
Farnham, Paulding, Great Neck, assignor to Tiffany & Company, New York, N. Y. Spoon, fork, or similar article.....	29,403	Sept. 27	84	2068
Fauber, William H., Chicago, Ill. Crank-arm and sprocket-wheel flange.....	28,214	Jan. 25	82	590
Fauber, William H., Chicago, Ill. Sprocket-wheel for bicycles.....	28,215	Jan. 25	82	591
Fauber, William H., Chicago, Ill. Crank-arm for velocipedes.....	29,525	Oct. 18	85	448
Fauber, William H., Chicago, Ill. Sprocket-wheel.....	29,827	Dec. 20	85	1894
Fausser, Gustave M., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet.....	29,352	Sept. 13	84	1724
Faust, Adolph A., assignor of one-half to N. B. Lentz, Des Moines, Iowa. Jar-wrench.....	28,941	June 28	83	1982
Fax, James, Toronto, Canada. Game-board.....	28,388	Mar. 15	82	1685
Faxon, Alfred A., Philadelphia, Pa. Box.....	29,057	July 19	84	498
Fay, Darius, Binghamton, N. Y. Dust-scraper.....	28,944	June 28	83	1983
Fay, Ophelia L., Elyria, Ohio. Stocking.....	29,254	Aug. 16	84	1138
Fechtel, George H. (See Fechtel, Henry G. and G. H.)				
Fechtel, Henry G. and G. H., St. Louis, Mo. Body for velocipede-wagons.....	29,578	Nov. 1	85	766
Feder, Harry, New York, N. Y. Skirt-binding.....	29,350	Sept. 13	84	1724
Feder, Harry, New York, N. Y. Skirt-binding.....	29,556	Oct. 25	85	606
Feder, Harry, New York, N. Y. Skirt-binding.....	29,557	Oct. 25	85	606
Feder, Marcus, Cleveland, Ohio. Box.....	28,141	Jan. 11	82	328
Fefel, Henry H., New York, N. Y., assignor to Multiple Power Company, of West Virginia. Bicycle-frame.....	28,991	July 5	84	136
Felscher, Robert, Brenham, Tex. Packing-jar.....	28,613	May 10	83	909
Felsenthal, Gabe. (See Stauber, Benjamin F., assignor.)				
Fensom, George H., Toronto, Canada. Badge.....	29,013	July 12	84	299
Ferguson, William P., New York, N. Y. Cap for exploding dynamite-cartridges.....	28,949	June 28	83	1984
Ferguson, William P., New York, N. Y. Cap for exploding dynamite-cartridges.....	29,537	Oct. 25	85	603
Ferris, Fred H., Mechanicsville, N. Y. Arm for flagstaff-holders.....	29,228	Aug. 16	84	1133
Ferrosteel Company. (See Hatfield, Albert D., assignor.)				
Ffolkes, Edward G. E. (See Bray, Oscar E., assignor.)				
Field, Benjamin F. (See Shedd and Field.)				
Field, Benjamin F., and W. J. Shedd, Chicago, Ill. Seat-post for bicycles.....	28,900	June 21	83	1793
Field, Ida M., New York, N. Y. Belt-hook.....	28,723	May 31	83	1331
Finch, Stanley W., Washington, D. C. Frame or body for bicycle-skates.....	28,753	May 31	83	1337
Fincke, Henry C., New York, N. Y. Puzzle-board.....	29,132	Aug. 2	84	797
Fisher, Joseph E. (See Riley and Fisher.)				
Fisher, William C., Jr., Attleborough, Mass., assignor to E. Solomon, New York, N. Y. Handle for nail-files or similar articles.....	29,663	Nov. 15	85	1069
Flaccus, George A., Wheeling, W. Va. Bottle.....	29,331	Sept. 13	84	1721
Flaccus, George A., Wheeling, W. Va. Shipping vessel.....	29,438	Oct. 4	85	142
Flatau, Louis S., Dallas, Tex., assignor to C. S. Roberts, Chicago, Ill. Post.....	29,897	Dec. 27	85	2083
Fleisch, Jacob H., New York, N. Y. Combination-garment.....	29,425	Sept. 27	84	2012
Fleischer, Sigmund L., New York, N. Y. Fabric.....	28,915	June 21	83	1796
Fleischman, William H., Buffalo, N. Y. Corner-piece.....	29,150	Aug. 2	84	800
Fleming, Richard, Lynn, Mass., assignor to General Electric Company, of New York. Casing for lamps.....	29,301	Sept. 6	84	1575
Fleming, William J., New York, N. Y. Skirt-supporter.....	28,115	Jan. 4	82	176
Fletcher, Americus V., Athol, Mass. Cooking-range.....	29,034	July 12	84	303
Fletcher, Evelyn A., Toronto, Canada. Keyboard.....	29,497	Oct. 18	85	443
Fletcher, George W., Mendon, Ill. Holdback-iron for thills.....	28,651	May 17	83	1059
Fliehmann, George J., <i>et al.</i> (See Diesterweg, Louis, assignor.)				
Fliehmann, George J., St. Louis, Mo., assignor of one-half to G. Ittner. Tag-holder.....	29,329	Sept. 13	84	1721
Fligor, Albert W., and W. F. Trice, Paragould, Ark. Refrigerator.....	28,200	Jan. 18	82	457
Flint, Edward D., Oakland, Cal. Hoof-pad.....	29,825	Dec. 20	85	1893
Folsom, George F., Boston, Mass. Snow-guard.....	28,655	May 17	83	1060
Fontes, Antonio R., Oakland, Cal. Garden implement.....	28,273	Feb. 8	82	888
Foote, Frederick H., Chicago, Ill. Brick for hot-blast stoves.....	28,495	Apr. 19	83	439
Forbes, William A., Butler, Ohio. Fastener for fence-stays.....	28,889	June 21	83	1791
Ford, Reuben, Newton, Mass. Puzzle-card.....	29,856	Dec. 20	85	1898
Ford, William W., Carthage, Tenn. Tobacco-plug.....	28,967	July 5	84	133
Forg, Peter, Somerville, Mass. Sprocket-wheel.....	29,524	Oct. 18	85	448
Forsheim, Joseph, New York, N. Y. Buckle-plate.....	28,732	May 31	83	1331
Foster, Frank H., Honolulu, Hawaii. Hoe.....	28,429	Mar. 29	82	1981
Foster, Theodore W., Providence, R. I. Cover for brush-backs.....	28,409	Mar. 29	82	1978
Foster, Theodore W., Providence, R. I. Back for brushes, &c.....	28,526	May 3	83	736
Foster, Theodore W., Providence, R. I. Cover for puff-boxes.....	28,527	May 3	83	736
Foster, Theodore W., Providence, R. I. Handle for manicure or similar articles.....	28,528	May 3	83	737
Foster, Theodore W., Providence, R. I. Handle for scissors.....	28,529	May 3	83	737
Foster, Theodore W., Providence, R. I. Box.....	28,685	May 24	83	1196
Foster, Theodore W., Providence, R. I. Box.....	28,727	May 31	83	1332
Foster, Theodore W., Providence, R. I. Handle for nail-files, &c.....	29,262	Aug. 23	84	1276
Fouch, Adelbert E., assignor to J. M. Davis, New York, N. Y. Case.....	28,308	Feb. 22	82	1202
Fowler, Arthur H., Philadelphia, Pa., assignor to Fowler & Wolfe Manufacturing Company, of Pennsylvania. Radiator.....	28,604	May 10	83	907
Fowler, Arthur H., Philadelphia, Pa., assignor to Fowler & Wolfe Manufacturing Company, of Pennsylvania. Radiator-section.....	28,760	May 31	83	1338
Fowler, Arthur H., Philadelphia, Pa., assignor to Fowler & Wolfe Manufacturing Company, of Pennsylvania. Radiator-section.....	28,761	May 31	83	1338
Fowler, Arthur H., Philadelphia, Pa., assignor to Fowler & Wolfe Manufacturing Company, of Pennsylvania. Radiator.....	29,182	Aug. 9	84	973
Fowler, Coleman L., Chicago, Ill. Gravity-pawl.....	29,902	Dec. 27	85	2084
Fowler & Wolfe Manufacturing Company. (See Fowler, Arthur H., assignor.)				
Fox, George R., Plaquemine, La. Brush.....	29,883	Dec. 27	85	2080
Fox, Ivan, Philadelphia, Pa. Bridge or spring for spectacles, &c.....	29,697	Nov. 22	85	1213
Fox, William S., Philadelphia, Pa. Bottle.....	28,969	July 5	84	133



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Frace, John. (See Cruickshank, Arthur B., assignor.)				
Francis, George, Columbus, Ohio. Ink-veil	29,362	Sept. 20	84	1858
Frank, Ferdinand, Munich, Germany. Gong	29,248	Aug. 16	84	1137
Frank, Henry C., New York, N. Y. Cuff-holder	28,725	May 31	83	1331
Frank M. Whiting & Company. (See Theobald, Jean G., assignor.)				
Frank M. Whiting Company. (See Theobald, Jean G., assignor.)				
Frankenberg, Frederick G., and A. H. Schweickhardt, St. Louis, Mo. Easel	29,573	Nov. 1	85	765
Franz, Charles, assignor to A. A. Vantine & Co., New York, N. Y. Woven fabric	28,622	May 10	83	910
Franz, Charles, assignor to A. A. Vantine & Co., New York, N. Y. Woven fabric	29,859	Dec. 20	85	1898
Franz, John, assignor to Cochran Chair Co., Cochran, Ind. Chair-seat	28,818	June 7	83	1504
Freas, Samuel T., assignor to American Saw Company, Trenton, N. J. Wrench	28,270	Feb. 8	82	887
Freeman, Herbert H., Pierre, S. D. Bottle	29,092	July 26	84	640
French, William L., New York, N. Y. Badge	28,779	June 7	83	1498
Friant, Thomas, <i>et al.</i> (See Reed, Charles J., assignor.)				
Fritts, Dayton R., <i>et al.</i> (See Wheeler, George T., assignor.)				
Fromuth, August G., assignor to J. Dunlap & Son, Philadelphia, Pa. Carpet	28,882	June 14	83	1655
Frost, Charles L., Grand Rapids, Mich. Door-catch	28,488	Apr. 19	83	438
Frost, Harvey F. (See Webber, Arthur C., assignor.)				
Fuchs, Ferdinand, <i>et al.</i> (See Chéron, Pierre J., assignor.)				
Fuchs, Frederick, <i>et al.</i> (See Chéron, Pierre J., assignor.)				
Fuchs, Henry, <i>et al.</i> (See Chéron, Pierre J., assignor.)				
Fuller, James W., Catsauqua, Pa. Car-wheel tire	28,192	Jan. 18	82	455
Gaar, Scott & Company. (See Stevens, William, assignor.)				
Gaisman, Henry J., New York, N. Y. Waist-belt	29,037	July 12	84	304
Galloway, Perry C., Abbott, Tex. Rein-holder	29,266	Aug. 23	84	1277
Galt, Thomas A., Sterling, Ill. Hand-sprayer	28,566	May 10	83	900
Galvin, James A., New York, N. Y. Washboard	29,073	July 19	84	501
Garden, Emanuel C., Jacksonville, Ill. Bicycle handle-bar	28,297	Feb. 15	82	1042
Gardner, Annie M. and W. H., Jr., Salem, Mass. Picture or mirror frame	28,808	June 7	83	1502
Gardner, William H., Jr. (See Gardner, Annie M. and W. H., Jr.)				
Garford, Arthur L., Elyria, Ohio. Bicycle-saddle seat	28,382	Mar. 15	82	1683
Garford, Arthur L., assignor to Garford Manufacturing Company, Elyria, Ohio. Bicycle-saddle seat	29,717	Nov. 22	85	1217
Garford Manufacturing Company. (See Garford, Arthur L., assignor.)				
Gaskill, Joseph, Trenton, N. J. Rope-cleat	29,330	Sept. 13	84	1721
Gates, Philetus W., Chicago, Ill. Frame for rock and ore crushers	29,155	Aug. 2	84	801
Gatewood, Cortez, Washington, D. C., assignor to himself, R. H. Davis, A. T. and T. B. Harms, New York, N. Y. Puzzle-block	28,775	May 31	83	1340
Gays, Henry W., St. Louis, Mo. Sill-pocket	28,357	Mar. 8	82	1552
Gays, Henry W., St. Louis, Mo. Carline-pocket	28,358	Mar. 8	82	1552
Gebhardt, Martin, New York, N. Y. Ring	29,353	Sept. 20	84	1856
Geering, Adolph, New York, N. Y. Vessel-cover	28,378	Mar. 15	82	1682
Gem Flexible Insole Company. (See Hadaway, John B., assignor.)				
General Electric Company. (See Fleming, Richard, assignor.)				
General Electric Company. (See Harthan, Charles E., assignor.)				
General Electric Company. (See Hewlett, Edward M., assignor.)				
General Electric Company. (See Moody, Walter S., assignor.)				
General Electric Company. (See Priest, Edward D., assignor.)				
General Electric Company. (See Willard, Ben, assignor.)				
General Electric Company. (See Wirt, Herbert C., assignor.)				
General Incandescent Arc Light Company. (See Klein, Charles J., assignor.)				
Gerber, Nicholas, Zurich, Switzerland. Butyrometer	28,817	June 7	83	1504
Gere, William B., assignor to Merrell-Soule Company, Syracuse, N. Y. Carton or envelop	28,639	May 17	83	1058
Gerken, Louis C., New York, N. Y. Spring for bottle-washers	29,540	Oct. 25	85	604
Gerlach, Emil. (See Gray, Granville H., assignor.)				
Germer, Edward G., Erie, Pa. Heating-stove	28,386	Mar. 15	82	1684
Germer, Edward G., Erie, Pa. Heating-stove	28,937	June 28	83	1982
Germer, Edward G., Erie, Pa. Heating-stove	29,305	Sept. 6	84	1576
Gerritson, Charles S., Boston, Mass. Lamp stand or holder	28,804	June 7	83	1502
Gerstendorfer, Albert and M., New York, N. Y. Advertising-column	28,617	May 10	83	909
Gerstendorfer, Albert and M., New York, N. Y. Advertising-column	28,618	May 10	83	909
Gerstendorfer, Albert and M., New York, N. Y. Advertising-sign	29,854	Dec. 20	85	1897
Gerstendorfer, Max. (See Gerstendorfer, Albert and M.)				
Gibbs, Lewis, Canton, Ohio. Embroidery-hoop	28,671	May 17	83	1062
Giese, August, New York, N. Y. Faucet-body	29,025	July 12	84	301
Gifford, Charles B., Toledo, Ohio. Letter-deposit mailing-case	29,888	Dec. 27	85	2081
Gifford, Cyrus P., assignor of one-half to E. J. and A. K. Riblet, Erie, Pa. Bicycle-tire plug	29,744	Nov. 29	85	1394
Gilbride, Thomas J., Scranton, Pa. Horseshoe-calk	28,853	June 14	83	1650
Gilcrest, Jacob K., assignor to Des Moines Incubator Company, Des Moines, Iowa. Thermo-static chamber	28,950	June 28	83	1984
Giles, William B., New York, N. Y. Game-board	29,115	July 26	84	645
Gilfillan, Alba J., Smethport, Pa., and W. H. White, Nyack, N. Y. Luggage-carrier for bicycles	28,295	Feb. 15	82	1042
Gilfillan, Essington N., Chicago, Ill. Blank or pattern for stamped washboards	29,187	Aug. 9	84	974
Gilfillan, Essington N., assignor to E. A. Still, Chicago, Ill. Desk and cabinet	28,244	Feb. 1	82	743
Gillbee, Manuel A. T., Philadelphia, Pa. Picture frame or mount	28,806	June 7	83	1502
Gillbee, Manuel A. T., Philadelphia, Pa. Picture frame or mount	28,807	June 7	83	1502
Gillespie, Allen H., and G. Hughel, Anderson, Ind. Bracket	29,885	Dec. 27	85	2081
Gillespie, Frank P., assignor of one-half to J. I. Town, Erie, Pa. Shell for gas-fuel burners	28,597	May 10	83	905
Gillespie, Frank P., assignor of one-half to J. I. Town, Erie, Pa. Shell for gas-fuel burners	28,598	May 10	83	906
Gillett, Henry W., Newport, R. I. Dental separator	28,934	June 28	83	1981
Girtanner, Alice, New York, N. Y. Member for manicure-scissors	28,974	July 5	84	134
Gladhill, Eugene W., Abingdon, Ill. Churn-dasher	28,706	May 24	83	1200
Glascock Bros. Manufacturing Company. (See Wiseman, Darwin E., assignor.)				
Glauber, Joseph H., Cleveland, Ohio. Faucet	29,734	Nov. 29	85	1392
Gleason, Elliott P. (See MacIntire, George R., assignor.)				
Gleason, Marshall W., Brooklyn, N. Y. Globe	28,689	May 24	83	1197
Glenn, James L., Jr., Clarksville, Tenn. Lacing-stud	29,668	Nov. 15	85	1070
Glover, Charles, New Britain, Conn. Bicycle pedal member	29,828	Dec. 20	85	1894
Glover, Charles, New Britain, Conn. Bicycle pedal member	29,829	Dec. 20	85	1894
Glover, Charles, New Britain, Conn. Bicycle-pedal	29,830	Dec. 20	85	1894
Gnichwitz, Rudolph, Ashbourne, assignor to Mather Manufacturing Co., Philadelphia, Pa. Font of printing-type	29,080	July 19	84	502
Godshaw, Charles, Tryon, N. C. Clock-dial	28,932	June 28	83	1981
Goeltz, William F., assignor to G. H. Clowes, Waterbury, Conn. Lamp-bracket	29,407	Sept. 27	84	2009
Gold, Edward E., New York, N. Y. Front plate for electric heaters	29,891	Dec. 27	85	2082
Goldscheider, Friedrich, Vienna, Austria-Hungary. Statuette	29,358	Sept. 20	84	1857



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Goldsmith, Byron B., New York, N. Y. Lead-pencil	28,558	May 10	83	899
Goldstein, Minnie, San Francisco, Cal. Game-board	29,005	July 5	84	139
Goltra, Edward F., St. Louis, Mo. Car-body bolster	29,421	Sept. 27	84	2011
Gomer, George, Brooklyn, N. Y. Match-box	28,177	Jan. 18	82	452
Goodbody, John H., New York, N. Y. Bustle	29,558	Oct. 25	85	606
Goode, Frank R., Decatur, assignor to R. O. Burrous and W. M. Brewer, Pierson Station, Ill. Rope and wire holder	29,310	Sept. 6	84	1577
Goodell Company. (See Rising, Frederick B., assignor.)				
Gooding, Benjamin W. and G., Plymouth, Mass. Handle for spoons, &c	28,885	June 21	83	1790
Gooding, George. (See Gooding, Benjamin W. and G.)				
Goodman, Isaac H., Philadelphia, Pa. Textile fabric	28,516	Apr. 26	83	590
Gordin, Jefferson, Searsborough, Iowa. Harness-slide D	29,730	Nov. 29	85	1391
Gorham Manufacturing Company. (See Codman, William C., assignor.)				
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Head and shank member for bicycle-pumps	28,872	June 14	83	1653
Gossard, Newton B., Altoona, Pa. Shirt-front	28,963	June 28	83	1986
Graef, Albrecht, New York, N. Y. Razor-blade	29,700	Nov. 22	85	1214
Graff, Charles D., New York, N. Y. Metal-worker's stock	28,341	Mar. 8	82	1550
Grand Rapids Clock and Mantel Company. (See Rose, John A., assignor.)				
Grant, James F., Baltimore, Md., assignor to Sovereign Grand Lodge of the Independent Order of Odd Fellows, of Maryland. Official certificate	28,782	June 7	83	1499
Gravier, Henri J. B., Ithaca, N. Y. Ship-protector	29,635	Nov. 8	85	926
Gray, Granville H., Marion, Ind., assignor of one-half to E. Gerlach, San Francisco, Cal. Jar-cover	29,674	Nov. 15	85	1071
Great Western Fixture Works. (See Morrow, Charles B., assignor.)				
Green, Arthur, Atlanta, Ga. Cone for roll-paper	29,264	Aug. 23	84	1276
Green, Edwin H., St. Louis, Mo. Mustache-guard for cups	29,466	Oct. 11	85	282
Green, William M., New York, N. Y. Jardinière	28,638	May 17	83	1058
Greenburg, George G., Chicago, Ill. Medal	29,528	Oct. 25	85	602
Greene, George E., Gardner, Mass. Handle for dental pluggers	29,560	Nov. 1	85	762
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	29,312	Sept. 6	84	1577
Greger, Thomas P., Philadelphia, Pa. Manhole-frame	29,313	Sept. 6	84	1577
Gregory, William E., Astoria, Oreg. Shoe-horn clamp	28,468	Apr. 12	83	290
Grewey, Emil, Yonkers, N. Y. Badge or similar article	28,339	Mar. 8	82	1550
Grey Iron Casting Company. (See Zecher, Frank J., assignor.)				
Griffith, Martin E., Manor Station, Pa. Bottle or jar	28,842	June 14	83	1648
Griggs, Cooper & Co. (See Wyman, Clark E., assignor.)				
Grindley, William H., Congleton, England. Ewer	29,569	Nov. 1	85	763
Grindley, William H., Congleton, England. Covered dish	29,570	Nov. 1	85	764
Grindley, William H., Congleton, England. Dish	29,618	Nov. 8	85	923
Grindley, William H., Congleton, England, assignor to W. S. Pitcairn, New York, N. Y. Ewer	28,140	Jan. 4	82	180
Grindley, William H., Congleton, England, assignor to W. S. Pitcairn, New York, N. Y. Ewer	28,144	Jan. 11	82	329
Griswold, Matthew, Jr., Erie, Pa. Gas-stove leg	28,313	Feb. 22	82	1202
Groce, Margaret B., Dallas, Tex. Card-receiver	29,817	Dec. 20	85	1892
Groff, Orlando W., et al. (See Miller, Edward, assignor.)				
Grunwaldt, Albert W., Abrams, Wis. Secretary	28,668	May 17	83	1062
Guett, Monroe, Hartford, Conn. Switch-contact	28,984	July 5	84	135
Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Push-button	28,648	May 17	83	1059
Guilliams, George L., Kansas City, Mo. Pastry-stamp	29,470	Oct. 11	85	283
Gulden, Charles, New York, N. Y. Bottle	28,412	Mar. 29	82	1978
Gunning, John B. (See Gunning, Timothy J. and J. B.)				
Gunning, Timothy J. and J. B., Boston, Mass. Sod cutting and lifting implement	29,737	Nov. 29	85	1392
Gurley, Frank A., Meridian, Miss. Back-band hook	28,348	Mar. 8	82	1551
Gurley, Frank A., Meridian, Miss. Back-band hook	28,349	Mar. 8	82	1551
Gurnee, Isaac Q., Butler, N. J., assignor to Butler Hard Rubber Company, New York, N. Y. Embroidery-ring	28,301	Feb. 15	82	1043
Gustin, Henry A., Cambridge, Mass. Bicycle-crank	29,143	Aug. 2	84	799
Guyer, Harry E., Philadelphia, Pa. Eyeglass-case	29,867	Dec. 27	85	2078
Guyn, Henry E., Philadelphia, Pa. Coffee-pot	29,437	Oct. 4	85	142
Guynn, John M., and J. S. Parmer, Newport, Ark. Twin bed-spring	29,631	Nov. 8	85	925
H. H. Babcock Company. (See Davis, Francis G., assignor.)				
H. L. Judd & Company. (See Lathrop, Frank L., assignor.)				
Haase, Henry, Philadelphia, Pa., assignor to Hensel-Colladay Company, of Pennsylvania. Skirt-protector	29,652	Nov. 8	85	929
Haase, Henry, Philadelphia, Pa., assignor to Hensel-Colladay Company, of Pennsylvania. Skirt-protector	29,689	Nov. 15	85	1074
Haaz, Ignatius. (See Whitney and Haaz.)				
Habensack, Fred, Sag Harbor, assignor to Alvin Manufacturing Company, New York, N. Y. Back for brushes or similar articles	29,464	Oct. 11	85	282
Hadaway, John B., Brockton, assignor to Gem Flexible Insole Company, Boston, Mass. Cement-receptacle	28,547	May 3	83	739
Hadden, Maurice E., Savannah, N. Y. Paring-knife	29,375	Sept. 20	84	1861
Hadley, George W., Chicopee, assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Side bar for bicycle-pedals	29,144	Aug. 2	84	799
Haettel, Frank, Columbus, Ohio. Sign-letter	28,955	June 28	83	1985
Haff, Edwin S., Brooklyn, N. Y. Cake of chewing-gum, &c	28,207	Jan. 25	82	589
Hagberg, John, Tacoma, Wash. Guitar-body or similar article	29,666	Nov. 15	85	1070
Haines, Samuel L., Philadelphia, Pa. Corner-plate fastening for bedsteads	28,383	Mar. 15	82	1684
Hall, Joseph, Leeds, England. Finishing roll or cylinder	29,343	Sept. 13	84	1723
Hall, Thomas. (See Yarrington and Hall.)				
Hall, Zachary T., Philadelphia, Pa. Broiler	29,714	Nov. 22	85	1216
Halleck, William C., assignor of one-half to A. G. Kalb, New York, N. Y. Pessary	29,408	Sept. 27	84	2009
Hamblin, Frank H., Worcester, Mass. Plate-lifter	28,220	Jan. 25	82	592
Hamilton, James, Newburg, N. Y. Spool-stand	28,797	June 7	83	1501
Hamilton, William, Allegheny, Pa. Casket	28,255	Feb. 1	82	744
Hamlin, John H., Salt Lake City, Utah. Tip for tool-handles	28,738	May 31	83	1334
Hamman, Anthony J., assignor of one-half to F. Henkelman, Baltimore, Md. Puzzle-box	28,299	Feb. 15	82	1043
Handiges, Philip T. (See Simpson and Handiges.)				
Hanley, John W., New York, N. Y. Cup or similar article	29,617	Nov. 8	85	923
Hanline, Alexander M. (See Hanline, William M., assignor.)				
Hanline, William M., Philadelphia, Pa., assignor to A. M. Hanline, Baltimore, Md. Nail or spike	28,287	Feb. 15	82	1040
Hanna, George W., and E. Sterzing, Hartford, Conn. Pattern for vehicle-tires	28,335	Mar. 1	82	1411
Hansen, Marius H., Chicago, Ill. Scale-beam	28,266	Feb. 8	82	887
Harding, Joseph, Rochester, N. Y. Shoe	29,909	Dec. 27	85	2086
Hare, Lewis, Custer, S. D. Instep-stiffener	28,800	June 7	83	1501



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Harms, Alexander T., <i>et al.</i> (See Gatewood, Cortez, assignor.)				
Harms, Thomas B., <i>et al.</i> (See Gatewood, Cortez, assignor.)				
Harral, Edward W., Bridgeport, Conn. Golf-club protector	29,634	Nov. 8	85	925
Harriman, Wilbur E., North Chatham, N. H. Handle socket-piece for hand-scrapers	28,568	May 10	83	901
Harris, Hart, Washington, Pa. Can-opener	29,508	Oct. 18	85	446
Harris, Max, assignor of one-half to W. J. Einfeld, Philadelphia, Pa. Puzzle-board	29,249	Aug. 16	84	1137
Harson, John N., Providence, R. I. Hat-marker	28,258	Feb. 8	82	885
Hart, Charles W., assignor to M. E. Button, Troy, N. Y. Fulcrum-post	29,898	Dec. 27	85	2083
Hart, Edwin, assignor to Waterbury Watch Company, Waterbury, Conn. Cyclometer-bracket	28,590	May 10	83	904
Hart, Edwin, assignor to Waterbury Watch Company, Waterbury, Conn. Cyclometer-casing	28,591	May 10	83	905
Hart, Gerald W., West Hartford, Conn. Switch contact member	29,582	Nov. 1	85	766
Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)				
Hart, Samuel H., Brownwood, Tex. Cuspidor	28,387	Mar. 15	82	1684
Hart, Willis O., Unionville, Conn. Spoon	28,629	May 17	83	1056
Harthan, Charles E., Lynn, Mass., assignor to General Electric Company, of New York. Cylinder-cap for arc-lamps	29,632	Nov. 8	85	925
Haskell, Benjamin C., Arlington, Mass. Chamber-slipper sole	29,692	Nov. 15	85	1074
Hatfield, Albert D., assignor to Ferroteel Company, Cleveland, Ohio. Hot-air register	28,384	Mar. 15	82	1684
Haudel, Fritz, Boston, Mass. Frame for generating sets	29,375	Sept. 20	84	1860
Haug, Wilhelm, Augsburg, Germany. Game-board	29,688	Nov. 15	85	1073
Haugh, Benjamin O., Anderson, Ind. Tile	28,907	June 21	83	1794
Havell, George, and A. G. Williams, Newark, N. J. Bicycle-lamp body	28,592	May 10	83	905
Haviland, Charles E., Limoges, France. Plate or dish	28,926	June 28	83	1979
Haviland, Charles E., Limoges, France. Dish	28,927	June 28	83	1980
Haviland, Charles E., Limoges, France. Cover-dish	28,928	June 28	83	1980
Haviland, Charles E., Limoges, France. Cover-dish	28,929	June 28	83	1980
Haviland, Charles E., Limoges, France. Cup or bowl	28,930	June 28	83	1980
Haviland, Charles E., Limoges, France. Pitcher	28,970	July 5	84	133
Haworth, Julia E. and S., Southport, England. Butter-curler	29,081	July 12	84	302
Haworth, Sam. (See Haworth, Julia E. and S.)				
Hayden, Nicholas, and C. F. C. Wurst, St. Paul, Minn. Calendar-casing	29,137	Aug. 2	84	798
Hayes, Joseph J., Louisville, Ky. Bottle	29,616	Nov. 8	85	922
Haynes, William E., Somerville, N. J. Badge	28,517	Apr. 26	83	590
Hazen, Frederick C., Los Angeles, Cal. Clothes-pin	28,693	May 24	83	1198
Heasley, Jacob M., Pittsburg, Pa. Envelop	29,360	Sept. 20	84	1857
Heaton, John S., Philadelphia, Pa. Skirt-hanger	29,038	July 12	84	304
Heaton, Peter, Allegheny, Pa. Hook	28,724	May 31	83	1331
Heeren, William, Pittsburg, Pa. Badge or similar article	29,864	Dec. 27	85	2077
Heergeist, Charles W., Oak Lane, assignor to Mather Manufacturing Co., Philadelphia, Pa. Font of printing-type	29,272	Aug. 23	84	1278
Heideger, Frank J., Bridgewater, assignor to Phoenix Glass Company, Pittsburg, Pa. Shade	29,129	Aug. 2	84	797
Heinig, Frank, Winnetka, Ill. Cabinet	29,398	Sept. 20	84	1864
Heisey, Augustus H., Idlewood, Pa. Glass vessel	28,180	Jan. 18	82	453
Heisey, Augustus H., Idlewood, Pa. Glass vessel	28,181	Jan. 18	82	453
Heitmann, Henry, Miamisburg, Ohio. Cigar	28,836	June 14	83	1647
Heitmann, Henry, Miamisburg, Ohio. Cigar	29,089	July 26	84	640
Heitmann, Henry, Miamisburg, Ohio. Cigar	29,090	July 26	84	640
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Hinge-leaf	28,322	Mar. 1	82	1409
Hendricks, Edward A. (See Dunton and Hendricks.)				
Hendryx, Andrew B., New Haven, Conn. Bird-cage hook	28,157	Jan. 11	82	331
Hendryx, Andrew B., New Haven, Conn. Bird-cage hook	28,158	Jan. 11	82	331
Hendryx, Andrew B., assignor to A. B. Hendryx Company, New Haven, Conn. Plate for flower-pot brackets	29,377	Mar. 15	82	1682
Henkelman, F. (See Hamman, Anthony J., assignor.)				
Henley, Albert, Lawrence, Kans. Wire fence	29,160	Aug. 2	84	802
Hensel-Colladay Company. (See Haase, Henry, assignor.)				
Hensel-Colladay Company. (See Patton, Oliver S., assignor.)				
Hensel-Colladay Company. (See Poyet, John B., assignor.)				
Herman, John M., Newark, N. J. Lamp-body	29,535	Oct. 25	85	603
Herr, Christian A., Osborn, Ohio. Top for gasoline-stoves	29,440	Oct. 4	85	143
Herrmann, Frank. (See Berger and Herrmann.)				
Hertzler, John. (See Keiper, Henry B., assignor.)				
Hewes, James A., Melrose, Mass. Suspender-end	29,203	Aug. 9	84	977
Hewitt, William E., David City, Nebr. Grocer's cabinet	28,988	June 28	83	1982
Hewitt, Joseph F., Allegheny, Pa. Grate-front	23,821	June 7	83	1504
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Third-rail insulator	29,741	Nov. 29	85	1392
Higgins, Campbell P., Roselle, N. J. Header for sectional steam-generators	29,740	Nov. 29	85	1393
Highland Manufacturing Company. (See Rowley, James F., assignor.)				
Hilderbrand, Edward L., Sullivan, Ind. Spoke-socket	28,294	Feb. 15	82	1042
Hildreth, Le Roy M., New Haven, Conn. Bicycle-saddle	28,874	June 14	83	1654
Hill, Benjamin B., Philadelphia, Pa. Die-plate	29,823	Dec. 20	85	1893
Hill, George W., Blue Ridge, Mo. Hammer	29,021	July 12	84	301
Hill, Joseph M., and J. C. Renner, Chicago, Ill. Show-card holder	28,238	Feb. 1	82	742
Hill, Sylvester B., Chicopee, Mass. Bicycle-frame	29,077	July 19	84	502
Hills, James E., New York, N. Y. Display-card	28,713	May 24	83	1201
Hills, James E., New York, N. Y. Link cuff-button	29,562	Nov. 1	85	762
Hinds, Charles S., Factoryville, Pa. Game-board	29,747	Nov. 29	85	1394
Hirschi, Charles A., Allegheny, assignor to Pittsburg Lamp and Brass Company, Pittsburg, Pa. Clock-frame	29,300	Sept. 6	84	1575
Hirsh, John R., Syracuse, N. Y. Hat-hook shell	29,565	Nov. 1	85	763
Hitchcock Lamp Company. (See Rose, Clarence H., assignor.)				
Hobson, Henry D., Brooklyn, N. Y. Puzzle board or card	28,773	May 31	83	1340
Hodge, Charles G., Philadelphia, Pa. Advertising-card	29,642	Nov. 8	85	927
Hodge, Charles J., Houghton, Mich. Tank for mineral or ore washing jigs	29,684	Nov. 15	85	1073
Hoeger, William H. (See Kennedy, John M., assignor.)				
Hoffman, Charles O., <i>et al.</i> (See Kelley, Calhoun L., assignor.)				
Hogg & Son, William J. (See Parker, Frederic M., assignor.)				
Hohenstein, Hugo, New York, N. Y. Candle-shade	29,756	Dec. 6	85	1577
Holabird, Louis, Chicago, Ill. Bicycle wrench and scraper	28,871	June 14	83	1653
Holabird, Russell D., Oakland, Cal. Frame for ice and refrigerating machines	28,897	June 21	83	1792
Holaday, John W., Akron, Ohio. Furnace bar grate-support	28,852	June 14	83	1650
Holcombe, John H. L., U. S. Navy. Badge	29,054	July 19	84	498
Holden, George P., Kingston, N. Y. Bicycle-saddle spring	23,513	Apr. 26	83	589
Holland, Mary C. (See Holland, Timothy, assignor.)				
Holland, Timothy, assignor to M. C. Holland, Chicago, Ill. Radiator-section	29,294	Aug. 30	84	1430



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Holland, Timothy, assignor to M. C. Holland, Chicago, Ill. Radiator	29,306	Sept. 6	84	1576
Hollands Manufacturing Company. (See Hough, Robert B., assignor.)				
Hollenbeck, Frank A., Syracuse, N. Y. Bicycle-saddle frame	28,433	Mar. 29	82	1982
Hollenbeck, Frank A., Syracuse, N. Y. Bicycle-saddle	28,434	Mar. 29	82	1982
Hollenbeck, Frank A., assignor to R. Croasdale, Syracuse, N. Y. Saddle-spring	28,336	Mar. 1	82	1412
Holley, William T., Morristown, Tenn. Kitchen-cabinet	28,243	Feb. 1	82	743
Holmes, Frank G., Pawtucket, assignor to Howard Sterling Company, Providence, R. I. Dish or similar article	29,675	Nov. 15	85	1071
Holmes, George J. (See Carter and Holmes.)				
Honecker, Jacob J., Cleveland, Ohio. Sponge-case	28,118	Jan. 4	82	176
Hooker, Isabella B., Hartford, Conn. Spoon	29,866	Dec. 27	85	2078
Hope, John and John, Jr., Providence, R. I. Frame for pantograph engraving-machines	28,996	July 5	84	137
Hopkins, Robert G., Somerville, Mass. Type-writer ribbon	28,342	Mar. 8	82	1550
Horne, Rolland H., Rye, assignor to J. L. Mott Iron Works, New York, N. Y. Heating-coil	29,890	Dec. 27	85	2082
Hough, David L. (See Buel, Albert W., assignor.)				
Hough, Robert B., assignor to Hollands Manufacturing Company, Erie, Pa. Wrench-jaw	29,338	Sept. 13	84	1722
Howard, Andrew, Wilkinsburg, Pa. Chimney	28,845	June 14	83	1649
Howard, Andrew, Wilkinsburg, Pa. Globe or similar article	29,128	Aug. 2	84	797
Howard, Andrew, Wilkinsburg, Pa. Chimney	29,837	Dec. 20	85	1895
Howard, Andrew, Wilkinsburg, Pa. Chimney	29,838	Dec. 20	85	1895
Howard, Harry E., Chicago, Ill. Metal bracket for ladders	29,735	Nov. 29	85	1392
Howard Sterling Company. (See Holmes, Frank G., assignor.)				
Hoyt, Charles A., assignor to National Computing Scale Company, Cleveland, Ohio. Scale-frame	28,310	Feb. 22	82	1202
Hoyt, Walter B., Elmhurst, N. Y. Gas check and regulator	28,185	Jan. 18	82	454
Hubbard, Elzira, Carlinville, Ill. Grave-vault	29,609	Nov. 1	85	772
Huebel, Otto H., New York, N. Y. Sponge and soap holder	29,620	Nov. 8	85	923
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	28,362	Mar. 8	82	1553
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	28,496	Apr. 19	83	439
Huennekens, Frederick W., Milwaukee, Wis. Washer	28,511	Apr. 26	83	589
Huff, William J., Decatur, Ill. Meat-block	28,815	June 7	83	1503
Hufschmidt, Charly W., Prairie du Chien, Wis. Cover for memorandum-books	28,520	May 3	83	735
Hughel, Grant. (See Gillespie and Hughel.)				
Hughes, John B., and H. H. Bacon, Cozad, Nebr. Staple	29,472	Oct. 11	85	283
Hull, Luther S. (See Tallman, Stephen L., assignor.)				
Hull, Scott H., Oskaloosa, Iowa. Harness-dee	28,145	Jan. 11	82	329
Hull, Scott H., Oskaloosa, Iowa. Harness-D	29,335	Sept. 13	84	1721
Hulse, Charlotte G., Newark, N. J. Fan	29,165	Aug. 9	84	971
Humes, John H., St. Louis, Mo. Punch	28,740	May 31	83	1334
Humes, John H., St. Louis, Mo. Punch	28,939	June 28	83	1982
Humes, John H., St. Louis, Mo. Member of belt-fasteners	29,698	Nov. 22	85	1214
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	28,460	Apr. 5	83	153
Hunt, Jonathan A., Westborough, Mass. Saddle spring or support	28,479	Apr. 12	83	292
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	28,822	June 7	83	1505
Hunt Manufacturing Company. (See McKenzie, John W., assignor.)				
Huntington, Arthur S., Omaha, Nebr. Legging	29,205	Aug. 9	84	977
Huntley, Arthur G., Toston, Mont. Sharpening-tool	28,895	June 21	83	1792
Hussey, Patrick L., Dayton, Ohio. Bicycle crank-hanger	29,246	Aug. 16	84	1136
Hutaf, August W., Hoboken, N. J. Hammer	28,942	June 28	83	1982
Hutchins, George F., Worcester, Mass. Jack-lever	28,579	May 10	83	903
I. B. Kleinert Rubber Company. (See Kleinert, Isaac B., assignor.)				
Ideal Couch and Casket Company. (See Lautner, William C., assignor.)				
Iden, Charles W., New York, N. Y., assignor to Electro Lamp Company, of West Virginia. Lamp	28,843	June 14	83	1648
Iden, Charles W., New York, N. Y., assignor to Electro Lamp Company, of West Virginia. Lamp	28,844	June 14	83	1648
Ihlenburg, Herman, Philadelphia, Pa., assignor to American Type Founders' Company, Newark, N. J. Font of printing-type	28,204	Jan. 18	82	458
Illinois Glass Company. (See Levis, Robert H., assignor.)				
Inglis, William S., Hartford, Conn. Stair-tread	28,351	Mar. 8	82	1551
Ingram, Nathan D., Holyoke, Mass. Pencil-holder	28,559	May 10	83	899
Ireland, David M., Detroit, Mich. Stove-urn	28,765	May 31	83	1338
Isaacs, Frederic H., Newark, N. J. Necktie-shield	28,794	June 7	83	1500
Isbister, William H., Philadelphia, Pa. Ornamental album-cover	29,258	Aug. 23	84	1275
Ittner, George. (See Fliehmman, George J., assignor.)				
Ittner, George, et al. (See Diesterweg, Louis, assignor.)				
Ives, Arthur H., Minneapolis, Minn. Cover for ice-cream tubs	29,411	Sept. 27	84	2009
Ives, Frederick A., assignor to Cheshire Manufacturing Company, Cheshire, Conn. Hook for garment-clasps	28,561	May 10	83	900
Ives, Henry, assignor of one-half to S. F. Crawford and W. F. Drake, Pueblo, Colo. Mattress	29,001	July 5	84	138
Ives, Hobart B., New Haven, Conn. Bead-engaging thimble	28,859	June 14	83	1651
Ives, Hobart B., New Haven, Conn. Bead-engaging thimble	28,860	June 14	83	1651
Ivory, James W., Philadelphia, Pa. Handle for punches	28,739	May 31	83	1334
J. & E. Stevens Company. (See Bailey, Charles A., assignor.)				
J. I. Case Threshing Machine Company. (See Dingee, William W., assignor.)				
J. L. Mott Iron Works. (See Horne, Rolland H., assignor.)				
Jackson, Austin F., Taunton, Mass. Teapot or like article	28,484	Apr. 19	83	437
Jackson, Austin F., Taunton, Mass. Teapot or like article	28,688	May 24	83	1197
Jackson, Austin F., Taunton, Mass. Candlestick	29,260	Aug. 23	84	1276
Jackson, Austin F., Taunton, Mass. Spoon or similar article	29,463	Oct. 11	85	281
Jackson, Frances C. (See Walker and Jackson.)				
Jackson, Harry A., Searsborough, Iowa. Ribbon-clasp	29,063	July 19	84	499
Jacobs, Charles H., Detroit, Mich. Hoop	29,039	July 12	84	304
Jacobs, Jacob, Brooklyn, N. Y. Tile-band	29,003	July 5	84	139
Jacobson, Reynold O., Bangor, Me. Boot-calk	29,040	July 12	84	304
Jacobus, Herbert H., Cedar Grove, N. J., assignor to Court Perfumery Company, New York, N. Y. Label	29,456	Oct. 4	85	146
Jaeger, Otto, and G. Schmiedel, New York, N. Y. Textile fabric	29,323	Sept. 6	84	1579
Jaeger, Otto, and G. Schmiedel, New York, N. Y. Textile fabric	29,654	Nov. 8	85	930
James E. Blake & Company. (See Egge, Conrad, assignor.)				
James E. Blake & Company. (See Laurin, Joseph F., assignor.)				
James E. Blake & Company. (See Pretzer, Louis W., assignor.)				
James E. Blake & Company. (See Straker, Joseph E., assignor.)				
Jamesson, William A., Niagara Falls, N. Y. Handle for spoons, &c	29,324	Sept. 13	84	1720
Jeffery, Thomas B., Chicago, Ill. Bicycle fork-head and reinforce	28,401	Mar. 22	82	1815
Jeffery, Thomas B., Chicago, Ill. Bicycle-frame reinforce	28,402	Mar. 22	82	1816
Jellenik, Felix, trustee. (See Phillips, Fred K., assignor.)				
Jenkins, Harry L., Minneapolis, Minn. Illuminated panel	28,908	June 21	83	1794



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Jenks, Barton P., Boston, Mass. Candlestick	28,968	July 5	84	133
Jenks, Barton P., Boston, Mass. Ornamental border for glass or silver ware	29,787	Dec. 13	85	1728
Jewell, Major R., Seneca Falls, N. Y. Game-board	29,320	Sept. 6	84	1579
Jodry, Julius E., Scranton, Pa. Bicycle repair-tool	29,718	Nov. 22	85	1217
Joffraud, Joseph, San Francisco, Cal. Twine-cutter	29,821	Dec. 20	85	1893
Johns, Harry E. (See Rowse and Johns.)				
Johnson, Benhard, Boston, Mass. Shoe-lace fastening	28,793	June 7	83	1500
Johnson, Frank P., Danville, Pa. Antirattler	28,849	June 14	83	1649
Johnson, Henry, Arlington, N. J. Crown-plate for signal-stands	29,501	Oct. 18	85	444
Johnson, Henry, Arlington, N. J. Interlocking plate for signal-stands	29,502	Oct. 18	85	444
Johnson, Henry, Arlington, N. J. Pillar for signal-stands	29,503	Oct. 18	85	444
Johnson, Robert M., Hainesport, N. J. Envelop	28,953	June 28	83	1934
Johnston, George, San Francisco, Cal. Concentrator-band	28,578	May 10	83	902
Johnston, James B., and C. B. Little, Dayton, Ohio. Water-tube boiler	28,122	Jan. 4	82	177
Johnston, Nathan, Oak Cliff, Tex. Rein-guide	29,627	Nov. 8	85	924
Jones, Ira A., Indianapolis, Ind. Display-rack	28,437	Mar. 29	82	1983
Jones, Joshua R., Philadelphia, Pa. Book-cover	29,359	Sept. 20	84	1857
Jonsson, Nils P., Omaha, Nebr. Shield for sash-pulleys	29,233	Aug. 16	84	1134
Joy, Ellen J., Stoops, Pa. Pail	28,326	Mar. 1	82	1409
Judenfreind, Max W., New York, N. Y. Muff	29,775	Dec. 6	85	1580
Kabis, Leopold, administrator. (See Moore, Thomas.)				
Kahn & Bros., F. & L. (See Kahn, Lazard, assignor.)				
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Foot-rail for stoves	29,884	Dec. 27	85	2081
Kailor, John N. (See Reeves and Kailor.)				
Kailor, John N., and M. T. Reeves, assignors to Reeves & Company, Columbus, Ind. Concave-section for separators	28,454	Apr. 5	83	152
Kaiser, Frederick A. C., Hoboken, N. J., assignor to American Lithographic Company, New York, N. Y. Box	29,274	Aug. 30	84	1427
Kalb, Albert G. (See Halleck, William C., assignor.)				
Kapp, John L. (See Kapp, Levi M. and J. L.)				
Kapp, Levi M. and J. L., La Grange, Ind. Member of a pair of tongs	29,307	Sept. 6	84	1576
Kaye, Edward, Monaca, Pa. Chimney	29,836	Dec. 20	85	1895
Kaye, Edward, Moon, assignor to Phoenix Glass Company, Pittsburg, Pa. Shade	29,130	Aug. 2	84	797
Kaye, Edward, Monaca, assignor to Phoenix Glass Company, Pittsburg, Pa. Chimney	29,835	Dec. 20	85	1895
Keil, Augustus J., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Head-piece for badges	29,610	Nov. 8	85	921
Keil, William, assignor to L. Dryfoos & Co., New York, N. Y. Fabric	29,460	Oct. 4	85	146
Keil, William, assignor to L. Dryfoos & Co., New York, N. Y. Fabric	29,461	Oct. 4	85	146
Keiper, Henry B., assignor of one-half to J. Hertzler, Lancaster, Pa. Ball-retainer	28,868	June 14	83	1653
Keith, Frederick M., Somerville, Mass. Cheese-cabinet	28,898	June 21	83	1792
Kelley, Calhoun L., assignor of three-fourths to C. O. Hoffman, J. P. Tribble, and V. McKay, Kennett, Mo. Stump-burner	28,986	July 5	84	135
Kelley, Maus & Company. (See Biedenfeld, Curt B. von, assignor.)				
Kelly, Ed. A., et al. (See Behrens, Edward C., assignor.)				
Kelly, James P., Alexandria, Ind. Ax or hatchet	29,680	Nov. 15	85	1072
Kelly, William J., Clinton, Iowa. Fastening-plate for upholstery-buttons	29,738	Nov. 29	85	1393
Kennedy, Dwight B., Oakmont, Pa. Car-truck frame	29,028	July 12	84	302
Kennedy, John E., Montreal, Canada. Wardrobe-case	28,998	July 5	84	138
Kennedy, John E., Montreal, Canada. Shoe-sole fabric	29,554	Oct. 25	85	606
Kennedy, John E., Montreal, Canada. Coat-hanger	29,872	Dec. 27	85	2078
Kennedy, John M., assignor of one-half to W. H. Hoegge, Los Angeles, Cal. Flag or similar article	29,053	July 19	84	497
Kennedy, John W., assignor to Sill Stove Works, Rochester, N. Y. Water-front for stoves	29,183	Aug. 9	84	973
Kennedy, John W., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining	29,184	Aug. 9	84	974
Kennedy, Thomas R., assignor to Co-Operative Foundry Company, Rochester, N. Y. Heating-stove	29,075	July 19	84	501
Kennedy, Thomas R., and E. J. King, assignors to Cooperative Foundry Company, Rochester, N. Y. Heating-stove	29,393	Sept. 20	84	1863
Kennedy, Thomas R., and E. J. King, assignors to Co-Operative Foundry Company, Rochester, N. Y. Cooking-stove	29,507	Oct. 18	85	445
Ker, William B. (See Cameron, Brock, assignor.)				
Kerns, Elmer E., Bradford, Pa. Badge	29,116	Aug. 2	84	795
Kerstetter, James L., Bradford, Pa. Writing-table cabinet	28,262	Feb. 8	82	886
Kieckhefer Brothers Company. (See Mohr, Ernst, assignor.)				
Kimball, Charles H., Chicago, Ill. Head or foot piece for metal beds	29,552	Oct. 25	85	605
Kimes, Hugh W., assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Pump-housing	28,546	May 3	83	739
King, Edward J. (See Kennedy and King.)				
King, George H., Kansas City, assignor of one-fourth to A. J. Prudot, Hermann, Mo. Combination toy	29,907	Dec. 27	85	2085
King, George W., East Orange, N. J. Spool or tube holder	29,436	Oct. 4	85	142
King, Hubert, Philadelphia, Pa. Mop or broom holder	28,233	Feb. 1	82	741
Kip, Frederic E. (See Baker and Kip.)				
Kirkpatrick, Thomas J., Springfield, Ohio. Velocipede-saddle	29,417	Sept. 27	84	2011
Kirkwood, Hugh, Minneapolis, Minn. File-case for sales-books	28,839	June 14	83	1647
Kitselman, Alva L., Ridgeville, Ind. Wire fence	29,158	Aug. 2	84	802
Kitselman, Alva L., Ridgeville, Ind. Wire fence	29,159	Aug. 2	84	802
Kitselman, Davis M., Ridgeville, Ind. Pattern for wire fencing	28,515	Apr. 26	83	589
Kittle, John S. (See Barney and Kittle.)				
Klaas, Henry. (See Strahl, Philip C., assignor.)				
Klaine, Frank A., Newport, Ky. Cooking-stove	28,219	Jan. 25	82	592
Klein, Charles J., New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Cut-out cabinet	29,154	Aug. 2	84	801
Klein, Frederick W., assignor to Reading Braid Company, Reading, Pa. Braid	28,777	May 31	83	1341
Kleinert, Isaac B., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Skirt-facing	29,084	July 19	84	503
Klumpff, Herman J., assignor to Butterfield Brothers, Portland, Oreg. Handle for spoons, &c	28,281	Feb. 15	82	1039
Kneile, Thomas L. (See Baringer, Irvin Y., assignor.)				
Knothe, Frank F., New York, N. Y. Suspender-end	28,878	June 14	83	1654
Knowlton, Thomas A., Boston, Mass. Ornamental stand	29,886	Dec. 27	85	2081
Knutson, Chris, Port Townsend, Wash. Harp-guitar frame	28,300	Feb. 15	82	1043
Koch, Justus, Philadelphia, Pa. Fabric for hangings	28,481	Apr. 19	83	436
Koenen, John G., Mount Vernon, N. Y. Eyeglass-case	29,485	Oct. 18	85	441
Kohler, Frederick E., Canton, Ohio. Hinge	28,418	Mar. 29	82	1979
Kohler, Frederick E., Canton, Ohio. Lawn-rake head	28,812	June 7	83	1503
Kohler, Frederick E., Canton, Ohio. Lawn-rake head	28,813	June 7	83	1503
Kohlman, Celia, New York, N. Y. Waist-belt	28,450	Apr. 5	83	152
Kolb, Charles W., Philadelphia, Pa. Loaf of bread	29,273	Aug. 23	84	1278



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Koller, Elizabeth, Bloomville, Ohio. Combined shield and cutter	28,312	Feb. 22	82	1202
Konrad, John C., assignor to C. W. Wood, New York, N. Y. Body for delivery-wagons	28,749	May 31	83	1336
Konrad, John C., assignor to C. W. Wood, New York, N. Y. Body for delivery-wagons	28,750	May 31	83	1336
Konrad, John C., assignor to C. W. Wood, New York, N. Y. Body for delivery-wagons	28,751	May 31	83	1336
Konrad, John C., assignor to C. W. Wood, New York, N. Y. Body for delivery-wagons	28,752	May 31	83	1336
Kramer, Meyer, Norway, Mich. Rock-drill	29,296	Aug. 30	84	1430
Kranz, Louis, assignor to Waite, Thresher Company, Providence, R. I. Handle for button-hooks, &c	28,919	June 28	83	1978
Kranz, Louis, assignor to Waite, Thresher Company, Providence, R. I. Handle for button-hooks, &c	28,920	June 28	83	1978
Kranz, Louis, assignor to Waite, Thresher Company, Providence, R. I. Handle for button-hooks or similar articles	29,213	Aug. 16	84	1131
Kranz, Louis, assignor to Waite, Thresher Company, Providence, R. I. Handle for button-hooks or similar articles	29,214	Aug. 16	84	1131
Kruse, Dietrick. (See Patterson, Eugene A., assignor.)				
Kursheedt Manufacturing Company. (See Lowe, Walter, assignor.)				
La Pierre, Frank H., East Orange, N. J. Brush or mirror back	28,169	Jan. 18	82	451
La Pierre, Frank H., East Orange, N. J. Clothes-brush	28,682	May 24	83	1196
La Pierre, Frank H., East Orange, N. J. Hair-brush	28,683	May 24	83	1196
La Pierre, Frank H., East Orange, N. J. Hand-glass	28,684	May 24	83	1196
La Pierre, Frank H., East Orange, N. J. Bracelet or similar article	28,720	May 31	83	1331
La Pierre, Frank H., East Orange, N. J. Handle for nail-files or similar articles	29,465	Oct. 11	85	282
Lake, David, Philadelphia, Pa., and L. S. Conley, Hammonton, N. J. Flag-holder	29,051	July 12	84	306
Lamb Manufacturing Company. (See Hadley, George W., assignor.)				
Lamb Manufacturing Company. (See Mathewson, Frank E., assignor.)				
Lambert, George A., assignor to Buckeye Manufacturing Company, Anderson, Ind. Neck-yoke center	29,704	Nov. 22	85	1214
Lane, William J., Poughkeepsie, N. Y. Storm-cap	29,796	Dec. 13	85	1730
Lange, George J., <i>et al.</i> (See Loveless, Fred H., assignor.)				
Lansing, J. Fitch, <i>et al.</i> (See Wheeler, George T., assignor.)				
Lansing, William S., <i>et al.</i> (See Wheeler, George T., assignor.)				
Larew, Henry, Butte, Mont. Nut-lock	29,517	Oct. 18	85	447
Lathrop, Frank L., Wallingford, Conn., assignor to H. L. Judd & Company, of New York. Curtain-ring	29,574	Nov. 1	85	765
Lauber, Simon C., Toledo, Ohio. Tag-fastener	29,062	July 19	84	499
Laurin, Joseph F., assignor to James E. Blake & Company, Attleborough, Mass. Back for brushes, mirrors, or similar articles	28,922	June 28	83	1979
Lautner, William C., assignor to Ideal Couch and Casket Company, Rochester, N. Y. Cover for burial-caskets	28,442	Mar. 29	82	1984
Lautner, William C., assignor to Ideal Couch and Casket Company, Rochester, N. Y. Burial-casket	28,675	May 17	83	1063
Law, Frank W., Pittsburg, Pa. Gas-burner	28,803	June 7	83	1501
Laws, Frank P., Beebe, Ark. Head for buttons	28,679	May 24	83	1196
Lawson, Henry S., Jersey City, assignor to Pantasote Leather Company, Passaic, N. J. Textile fabric	28,825	June 7	83	1505
Lawson, Jennie E. (See Snow, Frank E., assignor.)				
Layman, Waldo A., St. Louis, Mo. Electrical-instrument case	29,451	Oct. 4	85	145
Lee, Dwight B., Chicago, Ill. Wheel	29,826	Dec. 20	85	1893
Lee, Henry A., Brooklyn, N. Y. Salt-brick holder	28,151	Jan. 11	82	330
Lee, James L., Chicago, Ill. Printing-press bracket	28,152	Jan. 11	82	330
Leech, Emma M. (See Leech, George A., assignor.)				
Leech, George A., New York, N. Y., assignor to E. M. Leech, Washington, D. C. Saddle-seat	29,719	Nov. 22	85	1217
Leech, George A., New York, N. Y., assignor to E. M. Leech, Washington, D. C. Saddle-seat	29,720	Nov. 22	85	1217
Leechman, George D., Coventry, England. Tandem-velocipede frame	29,111	July 26	84	644
Lefler, A. W. (See Armstrong, Ezra A., assignor.)				
Leger, Edward, Chicago, Ill. Garment-rack	28,770	May 31	83	1339
Lehman, Eli, Martinsville, Ill. Heel-plate	29,453	Oct. 4	85	145
Leitz, Mary E., Philadelphia, Pa. Canopy for oil-stoves, &c	29,293	Aug. 30	84	1429
Lengers, Eugene, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Back for brushes, &c	28,168	Jan. 18	82	451
Lentz, Nathan B. (See Faust, Adolph A., assignor.)				
Lepper, Adam. (See Merrill and Lepper.)				
Leveque, Cyrille, Toronto, Canada. Index-book	29,138	Aug. 2	84	798
Levering, Mark S., Atlantic City, N. J., assignor of one-half to W. F. Dill and H. R. Miller, Philadelphia, Pa. Hose-mending device	28,544	May 3	83	738
Levis, Robert H., Alton, Ill., assignor to Illinois Glass Company, of Illinois. Bottle	29,170	Aug. 9	84	972
Levison, Joseph A., New York, N. Y. Skirt-supporter	28,506	Apr. 26	83	588
Lewers, Robert J., Newport News, Va. Easel	29,646	Nov. 8	85	928
Lewis, Henry M., assignor to Eclipse Stove Company, Mansfield, Ohio. Stove-plate	28,385	Mar. 15	82	1684
Lewis, Milford. (See Schleicher, Lewis, and Swan.)				
Limbet, Samuel H., assignor to G. S. Bowers and A. Meise, Springfield, Ohio. Game-board	28,823	June 7	83	1505
Lindemeyr, Philip, assignor to Monarch Manufacturing Company, Baltimore, Md. Bottle	28,841	June 14	83	1647
Lindenberg, Charles H., Columbus, Ohio. Regalia-collar	28,717	May 24	83	1202
Lindsay, Robert W., Middletown, N. Y. Game-board	28,674	May 17	83	1063
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Tire-valve cap	28,584	May 10	83	903
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Tire-valve cap	28,585	May 10	83	904
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Lamp-burner body	29,670	Nov. 15	85	1070
Linsley, Charles F., and R. F. Crooke, assignors to Bradley & Hubbard Mfg. Co., Meriden, Conn. Lamp-body	29,223	Aug. 16	84	1132
Lintner, William T., and J. T. Dowdall, Gloversville, N. Y. Glove	29,086	July 19	84	504
Lintner, William T., and J. T. Dowdall, Gloversville, N. Y. Glove or similar article	29,910	Dec. 27	85	2086
Linton, William D., and H. W. Farmer, Patoka, Ill. Hog-ring	29,107	July 26	84	643
Lippincott, Walter, Philadelphia, Pa. Door-button	28,508	Apr. 26	83	588
List, Edward R., Odin, Ill. Shoe-polisher frame	28,659	May 17	83	1060
Lister, John T., Cleveland, Ohio. Incandescent-lamp bulb	28,931	June 28	83	1981
Little, Clarence B. (See Johnston and Little.)				
Lockwood, Jared, New York, N. Y. Shirt-shield	28,439	Mar. 29	82	1983
Lockwood, Jared, New York, N. Y. Shirt-shield	28,440	Mar. 29	82	1983
Lockwood, Jared, New York, N. Y. Shirt-shield	28,441	Mar. 29	82	1984
Loeser, Daniel A., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Metallic border	28,469	Apr. 12	83	290
Lohrke, Hermann. (See Simonis and Lohrke.)				
Lonergan, James J., Cleveland, Ohio. Catch-basin	29,706	Nov. 22	85	1215
Long, Eugene F., assignor of one-half to G. A. Long, Scranton, Pa. Miner's lamp	28,594	May 10	83	905
Long, Frank T. (See Davies, Thomas W., assignor.)				
Long, George A. (See Long, Eugene F., assignor.)				
Long, William K., Bellaire, Ohio. Lawn-weeder	29,831	Dec. 20	85	1894



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Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Water-bag.....	29,880	Dec. 27	85	2080
Lorain Steel Company. (See Brown, William M., assignor.)				
Loring, Abbott, Boston, Mass. Atomizer.....	29,976	July 5	84	134
Love, Fred T., assignor to Rockford Silver Plate Company, Rockford, Ill. Handle for spoons, &c.	28,680	May 24	83	1196
Love, Fred T., assignor to Rockford Silver Plate Company, Rockford, Ill. Handle for spoons, &c.	28,681	May 24	83	1196
Loveland, Christopher H., <i>et al.</i> (See Behrens, Edward C., assignor.)				
Loveless, Fred H., assignor of two-thirds to G. C. Zeller and G. J. Lange, Lafayette, Ind. Brush-back.....	29,613	Nov. 8	85	922
Lowe, Walter, Nottingham, England, assignor to Kursheedt Manufacturing Company, New York, N. Y. Plaited fabric.....	29,723	Nov. 22	85	1218
Lowell Manufacturing Company. (See Sauer, Emil G., assignor.)				
Loynd, Thomas, Worcester, Mass. Ear for vessels.....	28,979	July 5	84	134
Ludwick, William F., Beaumont, Kans. Garden-hoe.....	28,490	Apr. 19	83	438
Lusk, Otto A. (See Martinek and Lusk.)				
Lynch, Jerry J., Erie, Pa. Trousers-stretcher.....	28,647	May 17	83	1059
Lynott, John P., Louisiana, Mo. Stove.....	28,602	May 10	83	906
Lyons, Albert J. (See Morton and Lyons.)				
Macferron, Norman T., Allegheny, Pa. Souvenir spoon.....	28,154	Jan. 11	82	330
MacIntire, George R., assignor of one-half to E. P. Gleason, New York, N. Y. Electric lamp.....	29,366	Sept. 20	84	1859
MacIntire, George R., assignor of one-half to E. P. Gleason, New York, N. Y. Electric lamp.....	29,367	Sept. 20	84	1859
MacIntire, George R., assignor of one-half to E. P. Gleason, New York, N. Y. Electric lamp.....	29,368	Sept. 20	84	1859
MacIntire, George R., assignor of one-half to E. P. Gleason, New York, N. Y. Electric lamp.....	29,369	Sept. 20	84	1859
Macker, George A., Westborough, Mass. Saddle-seat support for bicycles.....	29,050	July 12	84	306
Mackinnon, Alexander H., Olympia, Wash. Seal-press case.....	28,799	June 7	83	1501
Mackoy, Bettie J., Rosedale, Kans. Badge.....	29,117	Aug. 2	84	795
Macphail, James, West Pullman, assignor to Plano Manufacturing Company, Chicago, Ill. Handle for wrenches.....	28,229	Feb. 1	82	740
Macy, Bernard F., Roslindale, Mass. Egg-separator.....	28,876	June 14	83	1654
Maddock, Thomas, <i>et al.</i> (See Simons, Frederic M., assignor.)				
Maddock, Thomas, <i>et al.</i> (See Simons, John F., assignor.)				
Maddock, Thomas, <i>et al.</i> (See Weihman, Henry A., assignor.)				
Magee, Walter C., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet.....	28,126	Jan. 4	82	178
Magee, Walter C., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet.....	28,127	Jan. 4	82	178
Magnusen, James, Chicago, Ill. Vault-light.....	29,044	July 12	84	305
Mahony, Michael, Troy, N. Y. Vault-light.....	29,399	Sept. 20	84	1865
Maidhof, Marguerite. (See Maidhof, Victor F. and M.)				
Maidhof, Victor F. and M., New York, N. Y. Hair-pin.....	28,411	Mar. 29	82	1978
Malloch, Andrew M. (See Brogan and Malloch.)				
Manhattan Brass Company. (See Waibel and Meytrott, assignors.)				
Mantz, John A., Jersey City, N. J. Jet for lime-lights.....	29,149	Aug. 2	84	800
March, Frank D., Cambridge, Mass., assignor to Standard Rivet Company, Concord, N. H. Ornamental rivet.....	29,699	Nov. 22	85	1214
Marks, William D., assignor to American Electric Meter Company, Philadelphia, Pa. Meter-case.....	28,309	Feb. 22	82	1202
Marriott, James H. W., Baltimore, Md. Post-office cabinet.....	29,636	Nov. 8	85	926
Marsden, James, Wigan, England. Pattern-chart.....	29,197	Aug. 9	84	976
Marsden, James, Wigan, England. Pattern-chart.....	29,198	Aug. 9	84	976
Marsden, James, Wigan, England. Pattern-chart.....	29,199	Aug. 9	84	976
Marsden, James, Wigan, England. Pattern-chart.....	29,200	Aug. 9	84	976
Marsden, James, Wigan, England. Pattern-chart.....	29,201	Aug. 9	84	977
Marsden, James, Wigan, England. Pattern-chart.....	29,596	Nov. 1	85	769
Marsden, James, Wigan, England. Pattern-chart.....	29,597	Nov. 1	85	769
Marsden, James, Wigan, England. Pattern-chart.....	29,598	Nov. 1	85	770
Marsden, James, Wigan, England. Pattern-chart.....	29,599	Nov. 1	85	770
Marsden, James, Wigan, England. Pattern-chart.....	29,600	Nov. 1	85	770
Marsden, James, Wigan, England. Pattern-chart.....	29,601	Nov. 1	85	770
Marsden, James, Wigan, England. Pattern-chart.....	29,602	Nov. 1	85	771
Marsden, James, Wigan, England. Pattern-chart.....	29,653	Nov. 8	85	929
Marsden, James, Wigan, England. Pattern-chart for embroidery.....	29,870	Dec. 27	85	2078
Marsden, James, Wigan, England. Powder-pad.....	29,906	Dec. 27	85	2085
Marshall, Benjamin H., Chicago, Ill. Puzzle-board.....	29,906	Dec. 27	85	2085
Marshall, Edward S., assignor to Missouri Railway Equipment Company, St. Louis, Mo. Car-door track.....	28,742	May 31	83	1334
Marshutz, Siegfried G., Los Angeles, Cal. Spectacle or eyeglass temple.....	29,868	Dec. 27	85	2078
Martens, Rudolph H., Colfax, Wash. Door-latch.....	28,540	May 3	83	738
Martin, Arthur, Paris, France. Wall-paper.....	29,603	Nov. 1	85	771
Martin, Arthur, Paris, France. Wall-paper.....	29,604	Nov. 1	85	771
Martin, Charles M. (See Brockett, Atwater E., assignor.)				
Martin, Henry J., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Wrench-jaw.....	28,487	Apr. 19	83	438
Martin, John F., Ceresco, and J. W. Orton, Coldwater, Mich. Carpet-stretcher plate.....	28,943	June 28	83	1983
Martin, Oskar, Bergenfield, N. J. Axle-bearing for toy wagons.....	28,431	Mar. 29	82	1981
Martin, Samuel W., Springfield, Ohio. Gas stove or heater.....	29,237	Aug. 16	84	1134
Martin, Samuel W., Springfield, Ohio. Gas stove or heater.....	29,238	Aug. 16	84	1135
Martin, Samuel W., Springfield, Ohio. Gas stove or heater.....	29,239	Aug. 16	84	1135
Martin, Thomas N., Omaha, Nebr. Check-hook.....	29,382	Sept. 20	84	1862
Martinek, Fredrick, and O. A. Lusk, Chicago, Ill. Nipple for bicycle-valves.....	28,701	May 24	83	1199
Mason, George L., New York, N. Y. Monogramic display-frame.....	29,726	Nov. 29	85	1390
Mason, Silas W., Amsterdam, N. Y. Supporting-bracket.....	28,325	Mar. 1	82	1409
Mather Manufacturing Co. (See Gnichwitz, Rudolph, assignor.)				
Mather Manufacturing Co. (See Heergeist, Charles W., assignor.)				
Mathewson, Frank E., assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Sprocket-wheel.....	29,770	Dec. 6	85	1579
Mathisen, John. (See Bradley and Mathisen.)				
Maul, Hugo, Rahway, N. J. Trimming-braid.....	29,208	Aug. 9	84	978
Maul, Hugo, Rahway, N. J. Skirt-protector.....	29,803	Dec. 13	85	1731
Maurer, Alexander C., <i>et al.</i> (See Maurer, Frank H., assignor.)				
Maurer, Frank H., assignor to J. W. W. H. A. C., and F. H. Maurer, Philadelphia, Pa. Fringe.....	28,824	June 7	83	1505
Maurer, Joseph W., <i>et al.</i> (See Maurer, Frank H., assignor.)				
Maurer, William H., <i>et al.</i> (See Maurer, Frank H., assignor.)				
Maxim, Hiram P., Hartford, Conn. Plug for electrical purposes.....	28,744	May 31	83	1335
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet.....	28,826	June 7	83	1505
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet.....	28,827	June 7	83	1505
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet.....	28,828	June 7	83	1506
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet.....	28,829	June 7	83	1506
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet.....	28,830	June 7	83	1506
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet.....	28,831	June 7	83	1506
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet.....	28,832	June 7	83	1506



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Mayer, William H., New York, N. Y. Fabric	29,915	Dec. 27	85	2087
McCallum, Irving, <i>et al.</i> (See May, Anna K., assignor.)				
McCallum, Irving, <i>et al.</i> (See Rose, Arthur M., assignor.)				
McCallum, William H., <i>et al.</i> (See May, Anna K., assignor.)				
McCallum, William H., <i>et al.</i> (See Rose, Arthur M., assignor.)				
McCarthy, Louis, Boston, Mass. Insulator	28,355	Mar. 8	82	1552
McCarthy, Louis, Boston, Mass. Insulator	28,356	Mar. 8	82	1552
McCarville, Joseph H., Armah, Iowa. Puzzle-box	28,958	June 28	83	1985
McClain, Edward L., Greenfield, Ohio. Sweat-pad	28,576	May 10	83	902
McClelland, Edward S. (See Bole, Ruud, and McClelland.)				
McCormick, Francis J., Jr., and F. J., Dayton, Ohio. Water-closet bowl	28,545	May 3	83	739
McDonald, William B., Chicago, Ill. Insulator-plate	28,743	May 31	83	1334
McDowell, Henry. (See Smith and McDowell.)				
McEachern, Duncan J. (See Blount, Edward, assignor.)				
McElrath, James J. B., Centre, Ala. Match-box	29,435	Oct. 4	85	142
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric-heater case	28,327	Mar. 1	82	1410
McFadden & Brother, George H. (See McFadden, James F., assignor.)				
McFadden, James F., assignor to G. H. McFadden & Brother, Philadelphia, Pa. Tag	28,619	May 10	83	910
McFaddin, Harrison D., East Orange, N. J. Globe for lamps, &c.	29,494	Oct. 18	85	443
McGinn, Charles, Hartford, Conn. Bottle	29,060	July 19	84	499
McGuire, John A., and R. S. Williams, Celeste, Tex. Agricultural hoeing-wheel	29,342	Sept. 13	84	1722
McKay, Virgil, <i>et al.</i> (See Kelley, Calhoun L., assignor.)				
McKenzie, John W., Toledo, Ohio, assignor to Hunt Manufacturing Company, Westborough, Mass. Shell for clamps for bicycle-saddle springs	28,213	Jan. 25	82	590
McLean, James H., Dayton, Ohio. Loaf of prepared mush	28,242	Feb. 1	82	742
McMannon, Miller H., and A. H. Powers, Waterloo, Ala. Hame-hook	29,153	Aug. 2	84	801
McMillan, Albert B., Auburn, Wash. Stove	28,601	May 10	83	906
McNamee, John H. H., Cambridge, Mass. Badge or button	28,502	Apr. 26	83	588
McNeill, James H., Mineral City, Va. Puzzle-case	29,495	Oct. 18	85	443
McRae, Arthur A., Attleborough, Mass. Badge	29,754	Dec. 6	85	1576
McRae, Arthur A., assignor to McRae & Keeler, Attleborough, Mass. Badge or similar article	29,014	July 12	84	299
McRae & Keeler. (See Brennan, James S., assignor.)				
McRae & Keeler. (See McRae, Arthur A., assignor.)				
McShane, Patrick J., Stapleton, N. Y. Knife for opening seams	28,798	June 7	83	1501
Mehl, John, Jr., Jersey City, N. J. Cover for pocket-books or card-cases	28,170	Jan. 18	82	451
Mehl, John, Jr., Jersey City, N. J. Cover for pocket-books or card-cases	28,171	Jan. 18	82	451
Mehl, John, Jr., Jersey City, N. J. Cover for pocket-books or card-cases	28,172	Jan. 18	82	452
Mehl, John, Jr., Jersey City, N. J. Cover for pocket-books or card-cases	28,173	Jan. 18	82	452
Mehl, John, Jr., Jersey City, N. J. Cover for pocket-books or card-cases	28,174	Jan. 18	82	452
Meinecke, Christian W., Jersey City, N. J. Tip for atomizers or similar articles	28,975	July 5	84	134
Meise, Albert, <i>et al.</i> (See Limbert, Samuel H., assignor.)				
Melcher, Woodbury, East Orange, N. J. Pin	28,837	June 14	83	1647
Merrell-Soule Company. (See Gere, William B., assignor.)				
Merriam, William J., Almont, Mich. Wheat-steamer casing	28,609	May 10	83	908
Merrick, Frank W., Boston, Mass. Seam-welting strip	29,914	Dec. 27	85	2087
Merrill, William E. T., and A. Lepper, Philadelphia, Pa. Ham-boiling wrapper	29,510	Oct. 18	85	446
Merriman, Francis E., Boston, Mass., assignor to Sovereign Grand Lodge of the Independent Order of Odd Fellows, Baltimore, Md. Badge	28,780	June 7	83	1498
Metz, Charles H., Waltham, Mass. Bicycle-frame	29,478	Oct. 11	85	284
Metz, Charles H., Waltham, Mass. Wrench-frame	29,520	Oct. 18	85	448
Metz, Charles H., Waltham, Mass. Bicycle-shaft	29,521	Oct. 18	85	448
Metzger, Ferdinand F. (See Riedel and Metzger.)				
Metzger, George J., Rochester, N. Y. Hat sweat-band	29,566	Nov. 1	85	763
Meyer, Morris J., and O. W. Schmidt, St. Louis, Mo. Tobacco-pipe bowl	29,664	Nov. 15	85	1070
Meyer, William C., Boston, Mass. Knife	28,530	May 3	83	737
Meytrott, Henry. (See Walbel and Meytrott.)				
Miles, William, Toronto, Canada. Game-board	29,321	Sept. 6	84	1579
Miller, Edward, assignor of two-thirds to O. W. Groff and A. Rapp, Akron, Ohio. Bulb for electric lamps	28,452	Apr. 5	83	152
Miller, Edward, assignor of two-thirds to O. W. Groff and A. Rapp, Akron, Ohio. Bulb for electric lamps	28,453	Apr. 5	83	152
Miller, George, Jersey City, N. J. Bottle	28,790	June 7	83	1500
Miller, Howard R., <i>et al.</i> (See Levering, Mark S., assignor.)				
Miller, Ira O., Topeka, Kans. Stove-lid and pan lifter	28,940	June 28	83	1982
Miller, John K., assignor of one-half to F. Thompson, Marietta, Pa. Frying-pan	28,363	Mar. 8	82	1553
Miller, Otis H., assignor of one-half to W. W. Bride, Washington, D. C. Puzzle-box	29,648	Nov. 8	85	928
Miller, Philip, and I. Bodker, New York, N. Y. Candlestick	29,877	Dec. 27	85	2079
Millet, Louis J., Chicago, Ill. Prism-light	28,909	June 21	83	1794
Millhiser, Gustavus, assignor to Millhiser Manufacturing Company, Richmond, Va. Tobacco-bag	28,239	Feb. 1	82	742
Millhiser, Gustavus, assignor to Millhiser Manufacturing Company, Richmond, Va. Tobacco-package	29,192	Aug. 9	84	975
Millhiser, Gustavus, assignor to Millhiser Manufacturing Company, Richmond, Va. Tobacco-package	29,850	Dec. 20	85	1897
Millhiser, Gustavus, assignor to Millhiser Manufacturing Company, Richmond, Va. Tobacco-package	29,851	Dec. 20	85	1897
Millhiser Manufacturing Company. (See Millhiser, Gustavus, assignor.)				
Mills, Americus C., Jr., Rochester, N. Y. Display-rack	28,771	May 31	83	1340
Mills, Charles, assignor to Pettee Machine Works, Newton, Mass. Guide for flat-grinding machines	28,423	Mar. 29	82	1980
Mills, Charles, assignor to Pettee Machine Works, Newton, Mass. Guide for flat-grinding machines	28,424	Mar. 29	82	1980
Milwaukee Carnival Association. (See Clas, Alfred C., assignor.)				
Miner, Henry A., assignor to Miner's Fruit Nectar Co., Malden, Mass. Dispensing-jar stand	28,117	Jan. 4	82	176
Miner's Fruit Nectar Co. (See Miner, Henry A., assignor.)				
Minetto, Emile and J., New York, N. Y. Game-board	28,673	May 17	83	1063
Minetto, John. (See Minetto, Emile and J.)				
Minor, John O., assignor of one-half to R. M. Bronaugh, C. A. Bush, and J. M. Evarts, Baileyville, Kans. Wagon-box iron or cleat	28,193	Jan. 18	82	456
Missouri Lamp and Manufacturing Company. (See Schaefer, Edward, assignor.)				
Missouri Railway Equipment Company. (See Marshall, Edward S., assignor.)				
Mitchell, James A., Dayton, Ohio. Wire-stretcher	29,499	Oct. 18	85	444
Mitchell, James A., Dayton, Ohio. Wire-tightener	29,630	Nov. 8	85	925
Mix, Eugene P., Newark Valley, N. Y. Tree-trimmer	29,736	Nov. 29	85	1392
Modes, Edward C., Cicero, Ind. Bottle	28,635	May 17	83	1057



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Modes, Edward C., assignor to Modes Glass Company, Cicero, Ind. Bottle	28,483	Apr. 19	83	437
Modes Glass Company. (See Modes, Edward C., assignor.)				
Mohler, John P., Burlingham, Ohio. Fence-post	28,474	Apr. 12	83	290
Mohr, Ernst, assignor to Kieckhefer Brothers Company, Milwaukee, Wis. Spoon	28,789	June 7	83	1500
Monarch Brake-Beam Company. (See Simpson and Handiges, assignors.)				
Monarch Manufacturing Company. (See Lindemeyr, Philip, assignor.)				
Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company, of New York. Casing for dynamo-electric machines	29,373	Sept. 20	84	1860
Moon, John, New London, Conn. Cutter and swage	28,425	Mar. 29	82	1980
Moore, Arthur L., Cleveland, Ohio. Crank-hanger for bicycle-frames	28,353	Mar. 8	82	1552
Moore, Charles H., New York, N. Y. Trap-fixture	28,268	Feb. 8	82	887
Moore, Jane B., Covington, Ky. Pin or similar article	29,119	Aug. 2	84	795
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Buckle	29,277	Aug. 30	84	1428
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Buckle	29,278	Aug. 30	84	1428
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Buckle	29,279	Aug. 30	84	1428
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Buckle	29,280	Aug. 30	84	1428
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Buckle	29,281	Aug. 30	84	1428
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Buckle	29,282	Aug. 30	84	1428
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Pack-saddle frame	29,298	Aug. 30	84	1430
Moore, Thomas, deceased; L. Kabis, Cheyenne, Wyo., administrator. Arched plate for pack-saddles	29,336	Sept. 13	84	1722
Morgan, Jacques L., Kansas City, Mo. Insulator	29,782	Dec. 6	85	1580
Morgan, Morgan T., Anaconda, Mont. Distributer for applying liniment	29,731	Nov. 29	85	1391
Morgan, William, assignor to Pittsburgh Motor Vehicle Company, Pittsburg, Pa. Motor-vehicle frame	29,544	Oct. 25	85	604
Morley, Jennie G., Buffalo, N. Y. Abdominal supporter	29,163	Aug. 2	84	803
Morrell, Mary T., Syracuse, N. Y. Belt-hook	28,347	Mar. 8	82	1551
Morris, Ross, assignor to one-half to A. A. Scott, Clarksburg, W. Va. Medicated air-head	29,140	Aug. 2	84	799
Morrow, Charles B., assignor to Great Western Fixture Works, Chicago, Ill. Display-rack	28,772	May 31	83	1340
Morrow, George L. K., Detroit, Mich. Bicycle-frame	28,550	May 3	83	740
Morse, Frank B., Haverhill, Mass. Shoe	28,247	Feb. 1	82	743
Morton, Eunice R., Revere, Mass. Hook	29,152	Aug. 2	84	801
Morton, George, Lynn, and A. J. Lyons, Saugus, Mass. Heel-counter for boots or shoes	29,750	Nov. 29	85	1395
Mower, George S., Newark, N. J. Puzzle-box	29,802	Dec. 13	85	1731
Motherwell, David M., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivator-tool frame	29,070	July 19	84	500
Muckle, Henry A., St. Paul, Minn. Vehicle-spring	29,418	Sept. 27	84	2011
Mulconroy, James J., Philadelphia, Pa. Removable cap for telephone receiving instruments	29,707	Nov. 22	85	1215
Mulherin, Charles P., Augusta, Ga. Collar-buttoner	28,918	June 28	83	1978
Müller, Hermann O., New York, N. Y. Lamp-holder	28,734	May 31	83	1333
Multiple Power Company. (See Fefel, Henry H., assignor.)				
Mundy, Hendricks S., Guthrie, Okla. Ter. Body for rolling street-stands	28,994	July 5	84	137
Murray, Charles R., Chicago, Ill. Type-space	29,311	Sept. 6	84	1577
Murray, John P., Newton, Ill. Kitchen-cabinet	28,768	May 31	83	1339
Myers, Philip A., Ashland, Ohio. Home-trainer attachment	29,347	Sept. 13	84	1724
Myers, Phineas B., New York, N. Y. Paper box	28,640	May 17	83	1058
Myers, Phineas B., New York, N. Y. Paper box	28,730	May 31	83	1332
Myers, Phineas B., New York, N. Y. Paper box	29,093	July 26	84	640
Nagler, Robert A., New York, N. Y. Tip-cat	29,553	Oct. 25	85	606
National Carbon Company. (See Richmond, Charles T., assignor.)				
National Cash Register Company. (See Ringold, Edwin, assignor.)				
National Casket Company. (See Stein and Sparks, assignors.)				
National Casket Company. (See Stein and Wetmore, assignors.)				
National Computing Scale Company. (See Hoyt, Charles A., assignor.)				
National Lead Company. (See Baker, Walter H., assignor.)				
Nauds, Frederick, New York, N. Y. Pattern-plate for garments	28,880	June 14	83	1655
Neagle, Mary, Dillon, Mont. Member of broilers or toasters	29,759	Dec. 6	85	1577
Neely, William A., Lynn, Mass. Shoe	28,147	Jan. 11	82	329
Nelson, Webster O., Victor, Iowa. Railway splice-bar	29,892	Dec. 27	85	2082
Ness, William, Jr., Spring Forge, Pa. Harness-tug	29,702	Nov. 22	85	1214
Netherland, August, New York, N. Y. Dish	29,168	Aug. 9	84	971
Neuberger, Louis, Bridgeport, Conn. Hose-supporter	29,690	Nov. 15	85	1074
Neuhaus, Trounstine & Co. (See Ringold, Edwin, assignor.)				
Neuss, Robert, Aachen, Germany. Pin or needle card	28,726	May 31	83	1331
Neverslip Manufacturing Company. (See Whitaker, Richard, assignor.)				
New York Desk and Dining Room Furniture Company. (See Ehrlich, William, assignor.)				
New York Pipe Bending and Machine Company. (See Brinkman, Louies H., assignor.)				
Newton, William J., New York, N. Y. Fuse-carrier	28,471	Apr. 12	83	290
Nichols, Henry B. (See Taylor and Nichols.)				
Nichols, Marion L., Newark, N. J., assignor to Evolution Cycle Company, Washington, D. C. Casing or bracket for bicycles	28,352	Mar. 8	82	1552
Nicholson, John W., et al. (See Whitall, John M., assignor.)				
Nickels, Weber. (See Atkinson and Nickels.)				
Nieding, Adam H., Cleveland, Ohio. Cigar-box	28,729	May 31	83	1332
Nightingale, Charles T., New York, N. Y. Milk-jar	29,673	Nov. 15	85	1071
Noar, Isaac, New York, N. Y. Necktie-tip	29,488	Oct. 18	85	442
Noble, Howard C., New Britain, Conn. Buckle	28,505	Apr. 26	83	588
Noville, William. (See Ellsworth, Herbert, assignor.)				
Nolan, James P., Westfield, Conn. Game-board	29,496	Oct. 18	85	443
Norden, Joseph. (See Norden, Mortimer, assignor.)				
Norden, Mortimer, assignor to J. Norden, New York, N. Y. Electric-light sign	29,046	July 12	84	305
North, Paul, assignor to Cleveland Target Company, Cleveland, Ohio. Target	28,298	Feb. 15	82	1043
O'Brien, Thomas J., Buffalo, N. Y. Trap for sewers	29,420	Sept. 27	84	2011
O'Brien, William H., Akron, Ohio. Printer's quoin	29,234	Aug. 16	84	1134
O'Byrne, Sarah A., Chicago, Ill. Hose-supporter band or belt	29,777	Dec. 6	85	1580
O'Donnell, Hugh, Liverpool, England. Medal	28,965	July 5	84	132
O'Flynn, George S., New York, N. Y. Game-board	29,774	Dec. 6	85	1579
Oakville Company. (See straw, Wilfred, assignor.)				
Ocuppaugh, Charles H., Rochester, N. Y. Pulley-frame	28,397	Mar. 22	82	1815
Ocuppaugh, Charles H., Rochester, N. Y. Bicycle-frame	28,873	June 14	83	1653
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Picture-mount	28,711	May 24	83	1201
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Card-mount	28,954	June 28	83	1985
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Card-mount	29,590	Nov. 1	85	768
Oehrle, Albert C., Philadelphia, Pa., assignor to Oehrle Bros. & Co. Fringe	29,348	Sept. 13	84	1724



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Oehrle, Albert C., Philadelphia, Pa., assignor to Oehrle Bros. & Co. Fringe .....	29,349	Sept. 13	84	1724
Oehrle Bros. & Co. (See Oehrle, Albert C., assignor.)				
Onderdonk, Lansing, Winthrop, Mass. Saddle-cushion .....	28,459	Apr. 5	83	153
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine frame .....	29,505	Oct. 18	85	445
Ormiston, Philo J., assignor to J. B. Wilson, Philadelphia, Pa. Scissors-sharpener .....	28,187	Jan. 18	82	454
Orton, Julius W. (See Martin and Orton.)				
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons, &c. ....	29,356	Sept. 20	84	1857
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Border for silverware or similar articles .....	29,357	Sept. 20	84	1857
Ott, Philip, New York, N. Y. Hatchet .....	29,146	Aug. 2	84	800
Overton, Benjamin F., and L. E. Bryant, Omen, Tex. Quilting-frame stand .....	28,999	July 5	84	138
Owens, Thomas J., San Francisco, Cal. Monument .....	29,724	Nov. 22	85	1218
Ozias, Orange O., Dayton, Ohio. Indicator face-plate .....	28,933	June 28	83	1981
Ozias, Orange O., Dayton, Ohio. Scale base-plate .....	28,946	June 28	83	1983
Ozias, Orange O., Dayton, Ohio. Scale base-plate .....	28,947	June 28	83	1983
Ozias, Orange O., Dayton, Ohio. Price-indicating chart .....	29,095	July 26	84	641
Ozias, Orange O., assignor to Computing Scale Company, Dayton, Ohio. Scale-lever .....	29,135	Aug. 2	84	798
P. & F. Corbin. (See Case, Cromwell O., assignor.)				
P. & F. Manufacturing Co. (See Deem, Miller M., assignor.)				
P. H. & F. M. Roots Company. (See Enyart, Ralph C., assignor.)				
Paar, Henry, Canton, Ohio. Horseshoe .....	29,414	Sept. 27	84	2010
Packard, James W., and H. W. Wiswell, Warren, Ohio. Transformer-casing .....	28,997	July 5	84	138
Packham, Eldridge, Jr., Baltimore, Md. Bottle .....	29,171	Aug. 9	84	972
Packwood, Lahvesta P. C., Lake Maitland, Fla. Badge .....	29,529	Oct. 25	85	602
Padgett, J. D., et al. (See Bantz, Frederick W., assignor.)				
Padgett, W. C., et al. (See Bantz, Frederick W., assignor.)				
Page, Carter H., Jr., and E. L. Brundrett, Philadelphia, Pa. Burner .....	28,451	Apr. 5	83	152
Page, Carter H., Jr., and E. L. Brundrett, Philadelphia, Pa. Shade-support .....	28,470	Apr. 12	83	290
Paine, Bennett R., Hamden Junction, Ohio. Bottle .....	28,687	May 24	83	1197
Paine, Bennett R., Hamden Junction, Ohio. Bottle .....	29,318	Sept. 6	84	1578
Painter, Jesse K., Julesburg, Colo. Grass and weed cutter .....	28,748	May 31	83	1335
Palmer, Edwin C., assignor to Standard Tool Company, Cleveland, Ohio. Bicycle L saddle-post .....	28,581	May 10	83	903
Palmer, Edwin C., assignor to Standard Tool Company, Cleveland, Ohio. Bicycle T saddle-post .....	28,582	May 10	83	903
Pancost, Clare E., assignor to Royer Wheel Company, Cincinnati, Ohio. Hub-band .....	28,400	Mar. 22	82	1815
Palmer, Harold L., Utica, N. Y. Cuff-button .....	28,443	Apr. 5	83	151
Palmer, Isaac E., Middletown, Conn. Hammock-support .....	29,422	Sept. 27	84	2012
Palmer, Isaac E., Middletown, Conn. Hammock .....	29,455	Oct. 4	85	145
Pantasote Leather Company. (See Lawson, Henry S., assignor.)				
Parker, Frederic M., assignor to W. J. Hogg & Son, Worcester, Mass. Carpeting .....	29,210	Aug. 9	84	978
Parker, George S., Salem, Mass. Game-board .....	28,904	June 21	83	1793
Parker, Joseph H., Jr., Woburn, Mass. Chair .....	29,304	Sept. 6	84	1575
Parker, Lewis D., West Hartford, Conn. Mat .....	29,459	Oct. 4	85	146
Parkes, Jeremiah V. B., Newark, N. J. Nail-file .....	29,561	Nov. 1	85	762
Parmenter, Orville L., Racine, Wis. Wrapper for cigars .....	29,491	Oct. 18	85	442
Parmenter, Orville L., Racine, Wis. Cigar-wrapper .....	29,591	Nov. 1	85	768
Parmenter, Orville L., Racine, Wis. Cigar-wrapper .....	29,592	Nov. 1	85	768
Parmer, James S. (See Guynn and Parmer.)				
Paroutaud, Adolphe, New York, N. Y. Covered dish .....	29,788	Dec. 13	85	1729
Paroutaud, Adolphe, New York, N. Y. Covered dish .....	29,816	Dec. 20	85	1892
Paterson, Thomas S. (See Brown, Frederick W., assignor.)				
Patten, James S., Baltimore, Md. Dust-guard section .....	29,768	Dec. 6	85	1578
Patten, James S., Baltimore, Md. Dust-guard section .....	29,769	Dec. 6	85	1579
Patterson, Eugene A., assignor to one-half to D. Kruse, Dunbar, Nebr. Post-socket .....	29,550	Oct. 25	85	605
Patterson, Warren C., Tamaqua, Pa. Rail-chair .....	29,105	July 26	84	643
Patton, Oliver S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector .....	28,463	Apr. 12	83	288
Pearson, Fred S., Boston, Mass. Yoke for railway-conduits .....	29,241	Aug. 16	84	1136
Pearson, Fred S., Boston, Mass. Yoke for railway-conduits .....	29,270	Aug. 23	84	1277
Pearson, George C., Troy, Pa. Garden-tool .....	29,443	Oct. 4	85	143
Peck, Eugene B., Bridgeport, Conn. Knife .....	28,925	June 28	83	1979
Peck, Stow & Wilcox Company. (See Ellrich, Robert C., assignor.)				
Peddrick, Charles H., Jr., New York, N. Y. Tip for umbrella or parasol ribs .....	28,562	May 10	83	900
Pelouze Scale and Manufacturing Company. (See Triner, James M., assignor.)				
Penfold, Charles C., assignor to G. S. Penfold, Buffalo, N. Y. Button or similar article .....	29,462	Oct. 11	85	281
Penfold, G. S. (See Penfold, Charles C., assignor.)				
Perkes, Charles, Philadelphia, Pa. Pump-casing and bracket .....	28,379	Mar. 15	82	1683
Perkins, Albert, Chicopee, Mass. Cage for ball-bearings .....	28,869	June 14	83	1653
Perkins, Gaius W., et al. (See Reed, Charles J., assignor.)				
Perky, Henry D., Worcester, Mass. Wafer .....	28,785	June 7	83	1499
Perry, William G., Philadelphia, Pa. Game-board .....	29,748	Nov. 29	85	1394
Perry, William H., Concord, N. H. Monument .....	28,125	Jan. 4	82	178
Peters, Heber C., assignor to F. W. Whitchee, Boston, S. Crandon, Melrose, and H. L. Turner, Malden, Mass. Rubber heel .....	28,912	June 21	83	1795
Peters, William M., assignor to Adams & Westlake Company, Chicago, Ill. Panel for the foot or head of bedsteads .....	29,284	Aug. 30	84	1428
Peterson, Robert J., Mount Vernon, N. Y. Fabric .....	29,605	Nov. 1	85	771
Peterson, Robert J., Mount Vernon, N. Y. Fabric .....	29,606	Nov. 1	85	771
Peterson, Robert J., Mount Vernon, N. Y. Fabric .....	29,607	Nov. 1	85	771
Peterson, Robert J., Mount Vernon, N. Y. Fabric .....	29,608	Nov. 1	85	772
Pettee Machine Works. (See Mills, Charles, assignor.)				
Pettibone, Charles I. (See Cumming, Paul R., assignor.)				
Petzold, Adolph, assignor to J. H. and E. Bromley, Philadelphia, Pa. Rug .....	28,164	Jan. 11	82	332
Petzold, Adolph, assignor to J. H. and E. Bromley, Philadelphia, Pa. Rug .....	28,833	June 7	83	1506
Petzold, Adolph, assignor to J. H. and E. Bromley, Philadelphia, Pa. Rug .....	29,255	Aug. 16	84	1138
Pflieder, Alice, Columbus, Ohio. Curling-iron holder .....	29,230	Aug. 16	84	1133
Phillips, Fred K., assignor to F. Jellenik, trustee, New York, N. Y. Lamp-body .....	28,482	Apr. 19	83	436
Phillips, Morrill A. (See Sweeny, Edward M., assignor.)				
Phinney, Joseph W., Medford, Mass. Font of type .....	29,773	Dec. 6	85	1579
Phinney, Joseph W., Boston, Mass., assignor to American Type Founders Company, Newark, N. J. Font of type .....	28,253	Feb. 1	82	744
Phinney, Joseph W., Boston, Mass., assignor to American Type Founders Company, Newark, N. J. Font of type .....	28,254	Feb. 1	82	744
Phoenix Glass Company (See Heideger, Frank J., assignor.)				
Phoenix Glass Company. (See Kaye, Edward, assignor.)				
Pieri, Pompeo, Paris, France. Reflector .....	29,791	Dec. 13	85	1729



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Pietschmann, Emil, assignor to Wm. H. Horstmann Company, Philadelphia, Pa. Skirt-protector	28,795	June 7	83	1500
Pike, Balus M., Gadsden, Ala. Hame-tug	28,480	Mar. 29	82	1981
Pilcher, John V., Louisville, Ky. Member of cuff-holders	29,727	Nov. 29	85	1391
Pilkington, James, Liverpool, England. Pipe-cleaner	29,191	Aug. 9	84	975
Pincus, Edward, Philadelphia, Pa. Flag-holder	29,229	Aug. 16	84	1133
Pirrung, Felix. (See Pirrung, George, Sr., and F.)				
Pirrung, George, Sr., and F., Ravenswood, Ill. Broom-shield	29,332	Sept. 13	84	1721
Pitcairn, William S. (See Grindley, William H., assignor.)				
Pitts, Louise A., Oakland, Cal. Cake-turner	29,621	Nov. 8	85	923
Pittsburg Lamp and Brass Company. (See Hirschi, Charles A., assignor.)				
Pittsburgh Motor Vehicle Company. (See Morgan, William, assignor.)				
Plano Manufacturing Company. (See Macphail, James, assignor.)				
Player, John, Topeka, Kans. Car bolster	28,574	May 10	83	902
Plume & Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)				
Plummer, William S., Philadelphia, Pa. Corner-bracket for bedstead-frames	29,739	Nov. 29	85	1393
Plunkett, Gail E., New Richmond, Ind. Envelop-blank	29,079	July 19	84	502
Polak, Judah, New York, N. Y. Scarf-pin	29,402	Sept. 27	84	2008
Pope Manufacturing Company. (See Copeland, James S., assignor.)				
Porter, Edwin E., Canal Fulton, Ohio. Soil-pulverizing section	29,548	Oct. 25	85	605
Postlethwaite, Robert H., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Bearing bracket	28,159	Jan. 11	82	331
Postlethwaite, Robert H., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Bearing bracket	28,160	Jan. 11	82	331
Postlethwaite, Robert H., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Bearing-bracket	28,161	Jan. 11	82	332
Potter, Eugene, Winsted, Conn. Embroidery-silk-holder card	29,722	Nov. 22	85	1218
Powers, Abner B., Denver, Colo. Lamp-chimney	29,671	Nov. 15	85	1071
Powers, Alexander H. (See McMannon and Powers.)				
Poyet, John B., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	28,461	Apr. 12	83	288
Poyet, John B., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	28,462	Apr. 12	83	288
Pratt, Charles T., Clayville, N. Y. Sprayer-body	28,211	Jan. 25	82	590
Pratt, Charles T., Frankfort, N. Y. Slip-nipple	29,797	Dec. 13	85	1730
Prentis, George P., assignor of one-half to N. L. Rogers and B. F. Burton, Wickliffe, Ky. Harness-buckle frame	28,695	May 24	83	1198
Prestholdt, Ole T., Clarkfield, Minn. Medal or similar article	29,812	Dec. 20	85	1891
Pretzer, Louis, assignor to J. E. Blake & Co., Attleborough, Mass. Handle for spoons, &c	28,166	Jan. 18	82	451
Pretzer, Louis W., assignor to James E. Blake & Company, Attleborough, Mass. Back for brushes or similar articles	28,503	Apr. 26	83	588
Price, David, Philadelphia, Pa. Door	29,043	July 12	84	305
Price, Harry G., Philadelphia, Pa. Lock-clasp	28,867	June 14	83	1652
Price, James F., Boston, Mass. Charm	29,166	Aug. 9	84	971
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company, of New York. Field-magnet frame	29,372	Sept. 20	84	1860
Priest, Phebe T., Springfield, Ill. Vessel-cover	28,406	Mar. 22	82	1816
Pringle, Eugene, Gloversville, N. Y., assignor to Bradt & Shipman, De Kalb, Ill. Socket member of detachable fasteners	29,448	Oct. 4	85	144
Pringle, William T., Primos, Pa. Receptacle for attachment-plugs	28,698	May 24	83	1199
Pritchard, Albert R., Rochester, N. Y. Handle-strip for vessels	28,324	Mar. 1	82	1409
Prouty, William B., Ridgway, Pa. Clip-blank for cant-hooks	29,518	Oct. 18	85	447
Prudot, Adolph J. (See King, George H., assignor.)				
Pullman, Herbert S., Meriden, Conn. Egg-separator	29,139	Aug. 2	84	799
Pylick, Florian K., Cleveland, Ohio. Heat-radiating drum	29,585	Nov. 1	85	767
Quigley, Thomas M., Logansport, Ind. Display-case	29,083	July 19	84	503
R. Wallace & Sons Manufacturing Company. (See Lengers, Eugene, assignor.)				
R. Wallace & Sons Manufacturing Company. (See Loeser, Daniel A., assignor.)				
R. Wallace & Sons Manufacturing Company. (See Wallace, Henry L., assignor.)				
Rackleff, Henry A., Woodford's, Me. Checker-board	28,317	Feb. 22	82	1203
Ragan, William E. (See Andrews and Ragan.)				
Rakestraw, James V., Wellington, Kans. Sprayer attachment for washing-machines	29,186	Aug. 9	84	974
Rankin, Thomas I., assignor to Abram Cox Stove Company, Philadelphia, Pa. Cooking-stove	29,586	Nov. 1	85	767
Rankin, Thomas I., assignor to Abram Cox Stove Company, Philadelphia, Pa. Cooking-stove	29,587	Nov. 1	85	767
Rankin, Thomas I., assignor to Abram Cox Stove Company, Philadelphia, Pa. Cooking-stove	29,588	Nov. 1	85	768
Rankin, Thomas I., assignor to Abram Cox Stove Company, Philadelphia, Pa. Cooking-stove	29,589	Nov. 1	85	768
Rapp, Anton, et al. (See Miller, Edward, assignor.)				
Rayment, William A., assignor to Reed & Barton Corporation, Taunton, Mass. Lamp-body	28,735	May 31	83	1333
Reach, Robert, Philadelphia, Pa. Roller-skate frame	28,447	Apr. 5	83	151
Read, Alonzo P., Chicago, Ill. Washer	29,023	July 12	84	301
Reading Braid Company. (See Klein, Frederick W., assignor.)				
Reading Standard Manufacturing Company. (See Read, Philip S., assignor.)				
Ream, Flora V., Somerset, Ohio. Curtain	28,620	May 10	83	910
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Plowshare	28,329	Mar. 1	82	1410
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Plow-standard	28,330	Mar. 1	82	1410
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Plow-standard	28,331	Mar. 1	82	1411
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Landside for plows	28,332	Mar. 1	82	1411
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Shin-piece for plows	28,333	Mar. 1	82	1411
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Shin-piece for plows	28,334	Mar. 1	82	1411
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Landside for plows	28,360	Mar. 8	82	1553
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Plowshare	29,069	July 19	84	500
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Harrow-frame	29,314	Sept. 6	84	1577
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Harrow-frame	29,315	Sept. 6	84	1578
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Land-roller	29,476	Oct. 11	85	283
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Harrow-frame	29,711	Nov. 22	85	1216
Redfield, Charles T., Glen Haven, N. Y. Thill-coupling plate	28,194	Jan. 18	82	456
Redfield, Charles T., Glen Haven, N. Y. Antirattling plate	28,850	June 14	83	1649
Redfield, Charles T., Glen Haven, N. Y. Antirattling plate	28,983	July 5	84	135
Redfield, Edgar P. (See Chase and Redfield.)				
Redgrave, Montague, Jersey City, N. J. Bagatelle-board	29,047	July 12	84	305
Redman, Charles H., Jr., Newark, N. J. Cutting-plate for hair-clippers	28,421	Mar. 29	82	1980



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Reed & Barton Corporation. (See Rayment, William A., assignor.)				
Reed, Charles J., assignor to himself, G. W. Perkins, T. S. White, and T. Friant, Grand Rapids, Mich. Casing for musical instruments	29,822	Dec. 20	85	1893
Reel, John, French Camp, Miss. Violin or banjo bridge	28,956	June 28	83	1985
Reeves & Co. (See Clay, Harry C., assignor.)				
Reeves & Co. (See Reeves and Kailor, assignors.)				
Reeves & Company. (See Kailor and Reeves, assignors.)				
Reeves, Marshall T. (See Kailor and Reeves.)				
Reeves, Marshal T., and J. N. Kailor, assignors to Reeves & Co., Columbus, Ind. Separator or clover-huller tooth	28,894	June 21	83	1792
Reid, Philip S., Reading, Pa., assignor to Reading Standard Manufacturing Company, of Pennsylvania. Fork-crown	29,874	Dec. 27	85	2079
Reid, Thomas C., New York, N. Y. Puzzle-board	28,143	Jan. 11	82	329
Remington, John O. (See Ziegler and Remington.)				
Renfro, John R., Jr., Vernon, Tex. Churn-dash	28,606	May 10	83	907
Renner, John C. (See Hill and Renner.)				
Renner, Sydnia C., Lansing, Mich. Chopping-knife	28,608	May 10	83	908
Reuter, Henry F., Nashville, Ill. Tack	28,350	Mar. 8	82	1551
Rew, William O., Myers, Fla. Finder attachment for trolley-poles	29,709	Nov. 22	85	1215
Reynolds, Stanley, Rochester, assignor to Stein Casket Company, New York, N. Y. Burial-casket	28,615	May 10	83	909
Riblet, Alfred K., et al. (See Gifford, Cyrus P., assignor.)				
Riblet, Edward J., et al. (See Gifford, Cyrus P., assignor.)				
Rice, Edward J., assignor to J. E. Rice, Rochester, N. Y. Closet-bend, &c	29,290	Aug. 30	84	1429
Rice, Edward J., assignor to J. E. Rice, Rochester, N. Y. Flange for closet-bends	29,291	Aug. 30	84	1429
Rice, James E. (See Rice, Edward J., assignor.)				
Richards, George H., Somerville, Mass. Box	28,641	May 17	83	1058
Richardson, Christopher, Newark, N. J. Carving-fork	28,444	Apr. 5	83	151
Richardson, Christopher, Newark, N. J. Carving-fork	28,445	Apr. 5	83	151
Richardson, Christopher, Newark, N. J. Carving-fork	28,446	Apr. 5	83	151
Richardson, Lila S., Milwaukee, Wis. Belt-plate	29,776	Dec. 6	85	1580
Richmond, Charles T., assignor to National Carbon Company, Cleveland, Ohio. Battery-plate	29,265	Aug. 23	84	1276
Richmond, Charles T., assignor to National Carbon Company, Cleveland, Ohio. Jar	29,534	Oct. 25	85	603
Rickords, Samuel B., assignor of one-half to J. Shannon, Seymour, Iowa. Coping for graves	29,860	Dec. 20	85	1899
Ridgway, James V., Hinsdale, Ill. Picture-frame	29,285	Aug. 30	84	1428
Riedel, John M., and F. F. Metzger, Philadelphia, Pa. Match-box	29,091	July 26	84	640
Riker, Andrew L., New York, N. Y. Electric-motor casing	28,124	Jan. 4	82	178
Riley, Robert M., New York, N. Y., and J. E. Fisher, Millville, Ohio. Game-board	29,196	Aug. 9	84	975
Rines, Lizzie A., Minneapolis, Minn. Dressmaker's rule	29,134	Aug. 2	84	798
Ringold, Edwin, assignor to Neuhaus, Trounstein & Co., Cincinnati, Ohio. Badge	29,118	Aug. 2	84	795
Ringold, Edwin, Cincinnati, assignor to National Cash Register Company, Dayton, Ohio. Cash-register cabinet	29,346	Sept. 13	84	1723
Rising, Frederick B., assignor to Goodell Company, Antrim, N. H. Frame for fruit or vegetable parers	28,705	May 24	83	1200
Risdon Iron and Locomotive Works. (See Postlethwaite, Robert H., assignor.)				
Ritchey, Joseph K., Roaring Spring, Pa. Casing for base-ball tallies	29,131	Aug. 2	84	797
Roberts, C. S. (See Flatau, Louis S., assignor.)				
Roberts, Charles E., Oak Park, Ill. Wheel-hub	28,993	July 5	84	137
Roberts, Charles E., Oak Park, Ill. Barrel for bicycle-wheel hubs	29,523	Oct. 18	85	448
Roberts, Dugald H., Detroit, Mich. Lubricator-body	28,653	May 17	83	1060
Roberts, Dugald H., Detroit, Mich. Lubricator-body	28,654	May 17	83	1060
Roberts, Horace L., New York, N. Y. Jaw for tape-couplings	29,728	Nov. 29	85	1391
Roberts, Throp & Company. (See Donovan, James, assignor.)				
Robertson, Wilfred M., San Francisco, Cal. Top or cover for lunch-buckets	28,485	Apr. 19	83	437
Robertson, William, Buffalo, N. Y. Cork-extractor casing	29,379	Sept. 20	84	1861
Robinson, Stillman W., and H. J. Detmers, Columbus, Ohio. Hypodermic-syringe body	28,344	Mar. 8	82	1551
Rockford Silver Plate Company. (See Love, Fred T., assignor.)				
Rogers & Brother. (See Silber, Chris, assignor.)				
Rogers, Ethan, Ballston, N. Y. Die-block	29,136	Aug. 2	84	798
Rogers, Nathaniel L., et al. (See Prentis, George P., assignor.)				
Rollert, Anton J., assignor to Theodore A. Kochs Company, Chicago, Ill. Barber's chair	29,847	Dec. 20	85	1896
Rollert, Anton J., assignor to Theodore A. Kochs Company, Chicago, Ill. Barber's chair	29,848	Dec. 20	85	1897
Rome Manufacturing Company. (See Turney, George W., assignor.)				
Rose, Arthur M., Yonkers, N. Y., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet	29,008	July 5	84	140
Rose, Arthur M., Yonkers, N. Y., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet	29,009	July 5	84	140
Rose, Arthur M., Yonkers, N. Y., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet	29,010	July 5	84	140
Rose, Arthur M., Yonkers, N. Y., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet	29,011	July 5	84	141
Rose, Clarence H., assignor to Hitchcock Lamp Company, Watertown, N. Y. Quarter-bend coupling	28,572	May 10	83	901
Rose, John, Philadelphia, Pa. Umbrella band-clasp fastener	29,819	Dec. 20	85	1892
Rose, John A., assignor to Grand Rapids Clock and Mantel Company, Grand Rapids, Mich. Mantel	28,370	Mar. 8	82	1555
Rose-Soley, John F., San Francisco, Cal. Belt	29,096	July 26	84	641
Rosebro, Walter E., Elmhurst, Cal. Thread or twine cutter	28,888	June 21	83	1791
Rosenbluth, Edwin M., Philadelphia, Pa. Bicycle-lamp bracket	28,700	May 24	83	1199
Ross, Edward C., Newburg, N. Y. Radiator	29,551	Oct. 25	85	605
Rotharmel, George L., Sunbury, and C. H. Dodge, Northumberland, Pa. Game-board	29,082	July 19	84	503
Rothschild, Joseph, New York, N. Y. Hand-stamp	29,469	Oct. 11	85	282
Rowley, James F., assignor to Highland Manufacturing Company, Winsted, Conn. Can-opener	28,420	Mar. 29	82	1979
Rowley, Salmon B. (See Cummings, Charles W., assignor.)				
Rowse, Edwin F., and H. E. Johns, Homestead, Pa. Ironing-board	28,612	May 10	83	908
Royer Wheel Company. (See Pancost, Clare E., assignor.)				
Rubin, Max, New York, N. Y. Garment-fastener	28,245	Feb. 1	82	743
Rubin, Max, New York, N. Y. Base for calendars	29,665	Nov. 15	85	1070
Rudensky, Israel, New York, N. Y. Bracket for sewing-machine stands	29,390	Sept. 20	84	1863
Rupp, Louis L., New York, N. Y. Trimming	29,007	July 5	84	140
Ruppel, Henry, assignor to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Vapor burner	28,269	Feb. 8	82	887
Russell, Edgar A., Wallingford, Conn. Syrup-cup cover	29,124	Aug. 2	84	796
Russell, Edgar A., Wallingford, Conn. Shade-holder	29,224	Aug. 16	84	1132
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)				
Ruud, Edwin. (See Bole, Ruud, and McClelland.)				
Rystrom, Charles, Rockford, Ill. Heel-plate	29,908	Dec. 27	85	2085
S. F. Hayward & Company. (See Donnell, Harry E., assignor.)				
Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)				
Sager, James H., Rochester, N. Y. Bicycle-saddle	28,296	Feb. 15	82	1042
Sager, James H., Rochester, N. Y. Block for bicycle-clips	39,628	Nov. 8	85	925



*Alphabetical list of patentees of designs—Continued.*

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Sahlin, Rose, Chicago, Ill. Waist-front distender .....	28,536	May 3	83	738
Sahlin, Rose, Chicago, Ill. Waist-front distender .....	29,098	July 26	84	641
Salich, August, Denton, Tex. Trousers-fastener member .....	28,646	May 17	83	1059
Sampson, S. (See Anderson, Henry, assignor.) .....				
Sanders, Samuel, Leavenworth, Kans. Kitchen-cabinet .....	28,767	May 31	83	1339
Sanders, William, St. Louis, Mo. Churn-dasher .....	28,283	Feb. 15	82	1040
Sanford & Sons, Stephen. (See Cox, Wallace M., assignor.) .....				
Sanford & Sons, Stephen. (See Fauser, Gustave M., assignor.) .....				
Sanford & Sons, Stephen. (See Magee, Walter C., assignor.) .....				
Sanford & Sons, Stephen. (See Stewart, Nelson S., assignor.) .....				
Sauer, Emil G., New York, N. Y., assignor to Lowell Manufacturing Company, of Massachusetts. Carpet .....	29,401	Sept. 20	84	1865
Savage, William C., New York, N. Y. Pipe-coupling member .....	28,656	May 17	83	1060
Sawyer, Amos, Hillsborough, Ill. Tongue-depressor .....	28,973	July 5	84	134
Sawyer, Burnside E., Athol, Mass. Combination-square .....	29,875	Dec. 27	85	2979
Schaefer, Edward, assignor to Missouri Lamp and Manufacturing Company, St. Louis, Mo. Body for cigar-lighters .....	28,522	May 3	83	736
Schaefer, Henry A., assignor to Schaefer & Schlegel, Rochester, N. Y. Skirt-protector .....	29,101	July 26	84	642
Schaefer & Schlegel. (See Schaefer, Henry A., assignor.) .....				
Schanck, Ephraim L., Delaware, Ohio. Tie for bags, &c. ....	29,380	Sept. 20	84	1862
Schanz, Alfred B., Attica, Ind. Display-stand .....	29,271	Aug. 23	84	1277
Scheffbauer, Rupert, Jersey City, N. J., assignor to Sterling Arc Lamp Company, of New York. Arc-lamp casing .....	29,893	Dec. 27	85	2082
Scheffler, Peter H. (See Schmidt, Julius H., assignor.) .....				
Scheifley, Robert, Philadelphia, Pa. Toy .....	28,906	June 21	83	1794
Schenck, Charles G., Columbus, Ohio. Measuring vessel .....	29,619	Nov. 8	85	923
Scherrer, August, Biegel, Tex. Frame for spools or reels .....	28,272	Feb. 8	82	888
Schieffelin, Joseph T., Louisville, Ky. Puzzle box or case .....	29,400	Sept. 20	84	1865
Schies, John, Anderson, Ind. Jar .....	29,032	July 12	84	303
Schiffer, Henry. (See Thomas, Enoch K., assignor.) .....				
Schilling, Frank, Muncie, Ind., assignor to T. A. Snider Preserve Company, Cincinnati, Ohio. Bottle .....	28,634	May 17	83	1057
Schilz, Mary E., Philadelphia, Pa. Manicure-tool .....	29,019	July 12	84	300
Schlaebitz, Theodore A., Lincoln, Nebr. Wind-wheel .....	29,710	Nov. 22	85	1215
Schleckser, Herman F. W., assignor to Eastwood & Park, Newark, N. J. Handle for button-hooks or similar articles .....	28,552	May 10	83	899
Schleicher, William A., M. Lewis, Cleveland, Ohio, and H. C. Swan, Oshkosh, Wis. Harness-loop .....	28,982	July 5	84	135
Schloss, Meyer W., New York, N. Y. Braid .....	28,881	June 14	83	1655
Schlumberger, Robert, Allegheny, Pa. Coil-pipe for water-heaters .....	28,650	May 17	83	1059
Schmidt, Julius H., assignor of one-half to P. H. Scheffler, Bayonne, N. J. Suspension-holder for umbrellas .....	28,877	June 14	83	1654
Schmidt, Oscar W. (See Meyer and Schmidt.) .....				
Schmiedel, George. (See Jaeger and Schmiedel.) .....				
Schrage, William, Sheboygan, Wis. Bent-wood chair-seat .....	28,665	May 17	83	1061
Schroeder, Gustave F., San Francisco, Cal., assignor to American Type Founders Company, Newark, N. J. Font of printing-type .....	29,481	Oct. 11	85	284
Schuck, Valentine, assignor to Sutro Brothers Braid Company, New York, N. Y. Braid .....	28,248	Feb. 1	82	743
Schuck, Valentine, assignor to Sutro Brothers Braid Company, New York, N. Y. Braid .....	29,322	Sept. 6	84	1579
Schuetz, Louis O., and B. G. Sherman, Wauconda, Ill. Night-lamp chimney .....	29,061	July 19	84	499
Schuyler, Edwin J., assignor to American Ring Company, Waterbury, Conn. Spring for glove-fasteners .....	28,533	May 3	83	737
Schwab, Gustave, assignor to Schwab Manufacturing Company, New York, N. Y. Album-cover .....	29,647	Nov. 8	85	928
Schwab, Gustave, assignor to Schwab Manufacturing Company, New York, N. Y. Album-cover .....	29,667	Nov. 15	85	1070
Schwab Manufacturing Company. (See Schwab, Gustave, assignor.) .....				
Schwartz, Charles E., Stanford University, Cal. Clipping-holder .....	29,519	Oct. 18	85	448
Schwarz & Co., Lazarus. (See Schwarz, Isaac A., assignor.) .....				
Schwarz, Isaac A., assignor to L. Schwarz & Co., Philadelphia, Pa. Hat or bonnet trimming .....	28,407	Mar. 22	82	1816
Schweickhardt, Alfred H. (See Frankenberg and Schweickhardt.) .....				
Schwendner, Max, Reading, Pa., assignor to Reading Hardware Company, of Pennsylvania. Escutcheon-plate, &c. ....	28,410	Mar. 29	82	1978
Scott, Alfred A. (See Morris, Ross, assignor.) .....				
Scovill Manufacturing Company. (See Goss, John H., assignor.) .....				
Scovill Manufacturing Company. (See Lines, John, assignor.) .....				
Seranton Stove Works. (See Woodhull, Bradley, assignor.) .....				
Seaman, Benjamin S., Canton, Ohio. Spring .....	29,022	July 12	84	301
Seamless Rubber Company. (See Longden, Charles E., assignor.) .....				
See, Horace, New York, N. Y. Casing for condensers .....	28,150	Jan. 11	82	329
See, Horace, New York, N. Y. Boiler-drumhead .....	28,575	May 10	83	902
Seelhorst, Otto, Philadelphia, Pa. Puzzle-board .....	28,774	May 31	83	1340
Seidel, Emil. (See Cocke and Seidel.) .....				
Seidel, Franz, Mogwitz, Germany. Picture-frame .....	29,572	Nov. 1	85	764
Seiter, Charles J., New York, N. Y. Lamp-body .....	28,306	Feb. 22	82	1201
Selman, Benjamin T., Chattanooga, Tenn. Charm .....	28,626	May 17	83	1056
Selman, Benjamin T., Chattanooga, Tenn. Charm .....	28,627	May 17	83	1056
Sessler, Arnold, New York, N. Y. Stocking .....	28,276	Feb. 8	82	888
Sessler, Arnold, New York, N. Y. Legging .....	29,691	Nov. 15	85	1074
Seymour, Albert P., Syracuse, N. Y. Attachment-plug for electric cut-outs .....	29,708	Nov. 22	85	1215
Seymour, William S., Philadelphia, Pa. Package-holder .....	29,333	Sept. 13	84	1721
Shaff, Martin V., Los Angeles, Cal. Display-rack .....	28,263	Feb. 8	82	886
Shaffer, Knuland H., Hudson, N. Y. Badge .....	29,276	Aug. 30	84	1427
Shannon, John. (See Rickords, Samuel B., assignor.) .....				
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Harrow-frame .....	28,814	June 7	83	1503
Sharps, William E., Philadelphia, Pa. Jar-cap .....	28,980	July 5	84	134
Shaw, John P., Aberdeen, Miss. Member of a stock-marking tool .....	29,308	Sept. 6	84	1576
Shaw, William B., New York, N. Y. Foot for footstools .....	29,792	Dec. 13	85	1729
Shears, Lavinia D., New York, N. Y. Game-board .....	29,454	Oct. 4	85	145
Shedd, William J. (See Field and Shedd.) .....				
Shedd, William J., and B. F. Field, Chicago, Ill. Seat-post for bicycles .....	29,190	Aug. 9	84	975
Sheets, John H., New York, N. Y. Necktie-retainer .....	28,977	July 5	84	134
Sheldon, Carrie B., Grand Meadow, Minn. Stick-pin .....	29,612	Nov. 8	85	921
Shelverton, Charles J., Austell, Ga. Type-cabinet .....	28,203	Jan. 18	82	458
Shepherd, Robert B., New York, N. Y. Brush-back .....	29,167	Aug. 9	84	971
Sherman, Ben G. (See Schuetz and Sherman.) .....				
Sherman, William D., assignor of one-half to C. Bloomingdale, Sandy Hill, N. Y. Milk-cooler .....	29,509	Oct. 18	85	446
Shoenberg, Joseph E., New York, N. Y. Rain-coat and shelter-tent .....	29,651	Nov. 8	85	929



*Alphabetical list of patentees of designs—Continued.*

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Shoup, Sandford H. (See Beard and Shoup.)				
Sidebotham, John B., Philadelphia, Pa. Tape	29,457	Oct. 4	85	146
Sieffken, Charles M. (See Armstrong and Sieffken.)				
Sieghortner, August L., assignor to Berrang & Zacharias, Asbury Park, N. J. Cap for collapsible tubes	28,854	June 14	83	1650
Silber, Chris, Meriden, assignor to Rogers & Brother, Waterbury, Conn. Handle for spoons, forks, &c	28,631	May 17	83	1056
Sill Stove Works. (See Easterly, Eugene, assignor.)				
Sill Stove Works. (See Kennedy, John W., assignor.)				
Simon, Joseph, Chicago, Ill. Confection	28,957	June 28	83	1985
Simonis, Jacob, and H. Lohrke, Chicago, Ill. Calk for horseshoes	29,896	Dec. 27	85	2083
Simons, Edward S., <i>et al.</i> (See Simons, Frederic M., assignor.)				
Simons, Edward S., <i>et al.</i> (See Simons, John F., assignor.)				
Simons, Edward S., <i>et al.</i> (See Weihman, Henry A., assignor.)				
Simons, Frederic M., <i>et al.</i> (See Simons, John F., assignor.)				
Simons, Frederic M., <i>et al.</i> (See Weihman, Henry A., assignor.)				
Simons, Frederic M., assignor to F. M. Simons, Swathmore, J. F. Simons, T. Maddock, Philadelphia, Pa., and E. S. Simons, Orange, N. J. Belt	29,489	Oct. 18	85	442
Simons, John F., <i>et al.</i> (See Simons, Frederic M., assignor.)				
Simons, John F., <i>et al.</i> (See Weihman, Henry A., assignor.)				
Simons, John F., assignor to himself and T. Maddock, Philadelphia, Pa., F. M. Simons, Swathmore, Pa., and E. S. Simons, Orange, N. J. Thimble	28,721	May 31	83	1331
Simpson, Hall, Miller & Company. (See Clulee, John, assignor.)				
Simpson, Thomas H., and P. T. Handiges, assignors to Monarch Brake-Beam Company, Limited, Detroit, Mich. Fulcrum-jaw for brake-beams	29,106	July 26	84	643
Singley, Christian G., Manheim, Pa. Cigar or similar article	28,786	June 7	83	1499
Skinner, Chuck Company. (See Skinner, Edward J., assignor.)				
Skinner, Edward J., assignor to Skinner Chuck Company, New Britain, Conn. Chuck	29,067	July 19	84	500
Slack, George W., Northville, N. Y. Ladder-hook	28,489	Apr. 19	83	438
Slotkin, Mayer, New York, N. Y. Machine-leg	28,426	Mar. 29	82	1980
Smila, Harry S., North Baltimore, Ohio. Seal	28,538	May 3	83	738
Smith Adjustable Car-Axle Bearing Company. (See Smith, William B., assignor.)				
Smith, Albert C., Boulder, Colo. Bracket for curtain-poles and shade-rollers	28,858	June 14	83	1651
Smith, Allen W., and H. McDowell, New York, N. Y. Cap for teeth	29,876	Dec. 27	85	2079
Smith, Charles G., Detroit, Mich. Pattern for wire fabric	28,624	May 10	83	910
Smith, Charles H., Park City, Mont. Corn-cutter	28,810	June 7	83	1503
Smith, De Wane B., Deerfield, N. Y. Body for bicycle-pumps	28,271	Feb. 8	82	887
Smith, De Wane B., Deerfield, N. Y. Body and base for bicycle-pumps	28,899	June 21	83	1792
Smith, De Wane B., Deerfield, N. Y. Body for sprayers	29,227	Aug. 16	84	1133
Smith, De Wane B., Deerfield, N. Y. Body for sprayers	29,292	Aug. 30	84	1429
Smith, De Wane B., Deerfield, N. Y. Body for sprayers	29,327	Sept. 13	84	1720
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	29,623	Nov. 8	85	924
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	29,624	Nov. 8	85	924
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	29,625	Nov. 8	85	924
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	29,899	Dec. 27	85	2084
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	29,900	Dec. 27	85	2084
Smith, Dora M., Los Angeles, Cal. Jewel-case	29,319	Sept. 6	84	1578
Smith, Frank W., Gardner, Mass. Spoon, &c	28,221	Feb. 1	82	739
Smith, Frank W., Gardner, Mass. Vessel	29,571	Nov. 1	85	764
Smith, George L., Patton, Cal. Game-board	28,338	Mar. 1	82	1412
Smith, Harry W., Worcester, Mass. Woven fabric	29,752	Nov. 29	85	1395
Smith, Harry W., Worcester, Mass. Woven fabric	29,753	Nov. 29	85	1395
Smith, Levi C., Whitesborough, N. Y. Cheese-mold	29,033	July 12	84	303
Smith, Nelson M. (See Beitner and Smith.)				
Smith, Samuel V., Philadelphia, Pa. Wagon body and top	28,457	Apr. 5	83	153
Smith, William B., assignor to Smith Adjustable Car-Axle Bearing Company, New York, N. Y. Crown-back for car-axle bearings	28,892	June 21	83	1791
Smith, William B., assignor to Smith Adjustable Car-Axle Bearing Company, New York, N. Y. Wedge for car-axle bearings	28,893	June 21	83	1791
Smith, William F., San Francisco, Cal. Switchboard for telephone operators	28,697	May 24	83	1198
Smith, William H., Omamee, N. D. Envelop-blank	28,966	July 5	84	133
Smith, William T., Philadelphia, Pa. Woven fabric	28,372	Mar. 8	82	1555
Smith, William T., Philadelphia, Pa. Woven fabric	28,716	May 24	83	1202
Smith, William T., Philadelphia, Pa. Woven fabric	28,960	June 28	83	1986
Smith, William T., Philadelphia, Pa. Woven fabric	28,961	June 28	83	1986
Smith, William T., Philadelphia, Pa. Woven fabric	28,962	June 28	83	1986
Smith, William T., Philadelphia, Pa. Woven fabric	29,164	Aug. 2	84	803
Smith, William T., Philadelphia, Pa. Woven fabric	29,211	Aug. 9	84	978
Smythe, Theodore F., Philadelphia, Pa. Rack for toilet articles, jewelry, &c	29,614	Nov. 8	85	922
Snow, Andrew, Jr., New Bedford, Mass. Glass receptacle	28,178	Jan. 18	82	453
Snow, Andrew, Jr., New Bedford, Mass. Glass receptacle	28,179	Jan. 18	82	453
Snow, Frank E., assignor to J. E. Lawson, Chicago, Ill. Lamp-case	28,595	May 10	83	905
Snyder, Edmund F., Brooklyn, N. Y. Spice-cabinet	28,605	May 10	83	907
Snyder, Lyman H., Bristol, Conn. Holder for curling-tongs heaters	28,737	May 31	83	1333
Snyder, Lyman H., Bristol, Conn. Bicycle-holder spring	28,755	May 31	83	1337
Sohn, Ernst, St. Louis, Mo. Ornamental box	28,686	May 24	83	1197
Soloman, Elias. (See Fisher, William C., Jr., assignor.)				
Son, Eleanor D., Utica, N. Y. Tailpiece for stringed instruments	28,507	Apr. 26	83	588
Sovereign Grand Lodge of the Independent Order of Odd Fellows. (See Grant, James F., assignor.)				
Sovereign Grand Lodge of the Independent Order of Odd Fellows. (See Merriman, Francis E., assignor.)				
Sparks, William A. (See Stein and Sparks.)				
Speakman, Charles A., assignor to American Lithographic Company, New York, N. Y. Ornamental print or pattern for cigar-boxes	28,257	Feb. 8	82	885
Speakman, Charles A., assignor to American Lithographic Company, New York, N. Y. Ornamental print or pattern for cigar-boxes	28,373	Mar. 15	82	1681
Speakman, Charles A., assignor to American Lithographic Company, New York, N. Y. Ornamental print or pattern for cigar-boxes	28,374	Mar. 15	82	1681
Speakman, Charles A., assignor to American Lithographic Company, New York, N. Y. Print or pattern for cigar-boxes	28,521	May 3	83	735
Speakman, Charles A., assignor to American Lithographic Company, New York, N. Y. Label	29,721	Nov. 22	85	1218
Specialty Manufacturing Company. (See Anderson, Alma H., assignor.)				
Sprague, Charles D., assignor of one-half to O. Q. Beckworth, Minneapolis, Minn. Badge	28,781	June 7	83	1498
Srofe, Jesse H., Kokomo, Ind. Wire fence	28,500	Apr. 19	83	440
Staberg, Charles J., New York, N. Y. Puzzle-box	29,905	Dec. 27	85	2085



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Name, residence, and design.	No.	Date.	Official Gazette.	
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Stafford, Frank R., assignor to Waite, Thresher Company, Providence, R. I. Handle for button-hooks, &c	28,553	May 10	83	899
Stafford, Norman, Canistota, N. Y. Tooth-support	28,345	Mar. 8	82	1551
Stahl, Emil, Hoboken, N. J. Beer-cooler	28,985	June 28	83	1981
Standard Rivet Company. (See March, Frank D., assignor.)				
Standard Tool Company. (See Palmer, Edwin C., assignor.)				
Standing, Amos W., St. Louis, Mo. Game device	29,195	Aug. 9	84	975
Stanley Rule and Level Company. (See Traut, Justus A., assignor.)				
Star Manufacturing Company. (See Dunton and Hendricks, assignors.)				
Starkey, Sydney, East Liverpool, Ohio. Jug	29,468	Oct. 11	85	282
Stauber, Benjamin F., assignor to G. Felsenthal, Chicago, Ill. Frame for looking-glasses	28,616	May 10	83	909
Stedwell, George H., Hackensack, N. J. Skirt or garment binding	29,206	Aug. 9	84	978
Stedwell, George H., Hackensack, N. J. Skirt or garment binding	29,207	Aug. 9	84	978
Stein Casket Company. (See Reynolds, Stanley, assignor.)				
Stein, Conrad F., Bridgeport, Conn. Game-board	29,649	Nov. 8	85	929
Stein, Leo, New York, N. Y., and W. A. Sparks, assignors to National Casket Company, Hoboken, N. J. Top for burial-caskets	28,148	Jan. 11	82	329
Stein, Leo, New York, N. Y., and W. A. Sparks, assignors to National Casket Company, Hoboken, N. J. Burial-casket body	28,149	Jan. 11	82	329
Stein, Leo, and C. F. Wetmore, assignors to National Casket Company, Hoboken, N. J. Casket-body	28,835	June 7	83	1507
Stein, Leo, and C. F. Wetmore, assignors to National Casket Company, Hoboken, N. J. Casket-body	28,916	June 21	83	1796
Sterling Arc Lamp Company. (See Scheffbauer, Rupert, assignor.)				
Sterling, Charles O. (See Stone, Harry P., assignor.)				
Sterling, Frank G., Lynn, Mass. Puzzle box or case	29,575	Nov. 1	85	765
Sterzing, Emil. (See Hanna and Sterzing.)				
Stevens, George J., London, England. Bearing-bracket for bicycles	28,548	May 3	83	739
Stevens, John W. St. Paul, Minn. Seal-plate for seal-locks	28,696	May 24	83	1198
Stevens, William, assignor to Gaar, Scott & Company, Richmond, Ind. Tooth for cylinders and concaves of threshing-machines	28,543	May 3	83	738
Stewart, Frank, assignor to Stockham Manufacturing Company, Chicago, Ill. Furniture-foot	28,709	May 24	83	1200
Stewart, Frank, assignor to Stockham Manufacturing Company, Chicago, Ill. Table	29,761	Dec. 6	85	1577
Stewart, Frank, assignor to Stockham Manufacturing Company, Chicago, Ill. Table-top	29,846	Dec. 20	85	1896
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,130	Jan. 4	82	178
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,131	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,132	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,133	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,134	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,135	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,136	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,137	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,138	Jan. 4	82	179
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	28,139	Jan. 4	82	180
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	29,426	Sept. 27	84	2012
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	29,427	Sept. 27	84	2012
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	29,428	Sept. 27	84	2013
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	29,429	Sept. 27	84	2013
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	29,430	Sept. 27	84	2013
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	29,431	Sept. 27	84	2013
Still, E. A. (See Gilfillan, Essington N., assignor.)				
Stillwell-Bierce & Smith-Vaile Company. (See Kimes, Hugh W., assignor.)				
Stillwell, William I., Cleveland, Ohio. Roller-caster socket	28,323	Mar. 1	82	1409
Stimpson, Walter F., Milan, Mich. Face-plate for computing-scales	29,065	July 19	84	499
Stockham Manufacturing Company. (See Stewart, Frank, assignor.)				
Stohn, Emil, Jersey City, N. J. Fabric	28,249	Feb. 1	82	743
Stohn, Emil, Jersey City, N. J. Fabric	28,250	Feb. 1	82	743
Stone, Harry P., New York, N. Y., assignor of one-half to C. O. Sterling, Washington, D. C. Badge	29,863	Dec. 27	85	2077
Stone, Katie R., Saundersville, Mass. Package-supporting clip for bicycles	29,110	July 26	84	644
Stone, Ruby. (See Anderson, George M., assignor.)				
Stortz, Harry L. (See Stortz, John T. and H. L.)				
Stortz, John T. and H. L., Philadelphia, Pa. Wrench and screw-driver	28,380	Mar. 15	82	1688
Stover Bicycle Manufacturing Company. (See Stover, Daniel C., assignor.)				
Stover, Daniel C., assignor to Stover Bicycle Manufacturing Company, Freeport, Ill. Bicycle-crank	28,549	May 3	83	738
Stover Manufacturing Company. (See Held, August S., assignor.)				
Strahl, Philip C., assignor of one-half to H. Klaas, Lawrence, Kans. Grate-bar	28,985	July 5	84	135
Straker, Joseph E., Jr., assignor to H. H. Curtis, North Attleborough, Mass. Back for brushes or similar articles	29,015	July 12	84	300
Straker, Joseph E., Jr., assignor to G. K. Webster, North Attleborough, Mass. Back for brushes or similar articles	29,217	Aug. 16	84	1131
Straker, Joseph E., Jr., North Attleborough, assignor to James E. Blake & Company, Attleborough, Mass. Handle for button-hooks, &c	29,263	Aug. 23	84	1276
Straub, Engelbert A., Rodney, Mich. Fruit-picker	29,549	Oct. 25	85	605
Straus & Sons, L. (See Davies, Benjamin, assignor.)				
Straw, Wilfred, assignor to Oakville Company, Waterbury, Conn. Pin-package container	28,971	July 5	84	133
Streich, Gabriel, Oshkosh, Wis. Fire-hose-wagon body	28,577	May 10	83	902
Strohhaker, Gustav, assignor to Watrous Manufacturing Company, Wallingford, Conn. Handle for spoons, forks, &c	28,923	June 28	83	1979
Stubenbord, Charles, New York, N. Y. Stove	28,519	Apr. 26	83	590
Sturges, Lee, Elmhurst, Ill. Sprocket-wheel	28,870	June 14	83	1653
Sullivan, Cornelius, Cleveland, Ohio. Syringe-pipe	29,765	Dec. 6	85	1578
Sulzberger, Cyrus L., New York, N. Y. Skirt-binding	29,778	Dec. 6	85	1580
Sulzberger, Cyrus L., New York, N. Y. Skirt-binding	29,779	Dec. 6	85	1580
Sulzberger, Cyrus L., New York, N. Y. Skirt-binding	29,780	Dec. 6	85	1580
Sulzberger, Cyrus L., New York, N. Y. Skirt-binding	29,781	Dec. 6	85	1580
Sulzberger, Cyrus L., New York, N. Y. Skirt-binding	29,858	Dec. 20	85	1898
Summers, William T., Columbus, Ohio. Heel	29,452	Oct. 4	85	145
Sutro Brothers Braid Company. (See Schuck, Valentine, assignor.)				
Sutter, Frederick C., Swissvale, Pa. Transformer-case	29,410	Sept. 27	84	2009
Swalm, Frank S., Brookhaven, Miss. Spoon	29,695	Nov. 22	85	1213
Swan, Henry C. (See Schleicher, Lewis, and Swan.)				
Swan, James, Seymour, Conn. Tool-handle	28,230	Feb. 1	82	740
Swan, James, Seymour, Conn. Tool-handle	28,231	Feb. 1	82	741
Swan, James, Seymour, Conn. Tool-handle	28,419	Mar. 29	82	1979
Swartz, Harry E., Reading, Pa. Screw-driver	28,691	May 24	83	1198
Sweeney, Charles P., and H. Wrigley, Philadelphia, Pa. Base for coin-scales	28,669	May 17	83	1062
Sweeny, Edward M., assignor of one-half to M. A. Phillips, South Hanover, Mass. Nail	29,283	Aug. 30	84	1428



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T. A. Snider Preserve Company. (See Schilling, Frank, assignor.)				
Tabor, William B., assignor of one-half to F. W. Brunnworth, Alhambra, Ill. Kitchen-cabinet	28,666	May 17	83	1061
Tahl, Isidor, New York, N. Y. Box	29,036	July 12	84	303
Taite, Benjamin G., Philadelphia, Pa. Ornamental toilet-powder box	29,259	Aug. 23	84	1275
Taite, Benjamin G., assignor to himself, S. S. and S. G. Taite, Philadelphia, Pa. Metallic box	28,413	Mar. 29	82	1978
Taite, Samuel S., <i>et al.</i> (See Taite, Benjamin G., assignor.)				
Taite, Sarah G., <i>et al.</i> (See Taite, Benjamin G., assignor.)				
Takvorian, Onnik, Boston, Mass. Wrapped candy	28,672	May 17	83	1062
Taliaferro, Thomas W., South Omaha, Nebr. Sash-holder	29,287	Aug. 30	84	1429
Tallman, Stephen L., assignor to L. S. Hull, Middletown, Conn. Can-opener body	28,232	Feb. 1	82	741
Tanner, Merritt M., Hawkinsville, N. Y. Box	28,728	May 31	83	1332
Taplin, Clarence A., assignor to Taplin Manufacturing Company, Forestville, Conn. Window-stop adjuster	28,857	June 14	83	1651
Taplin Manufacturing Company. (See Taplin, Clarence A., assignor.)				
Tappan, Herman, New York, N. Y. Bottle-cap	28,636	May 17	83	1057
Tappan, Herman, New York, N. Y. Bottle	29,125	Aug. 2	84	796
Tatum, Charles A., <i>et al.</i> (See Whitall, John M., assignor.)				
Taylor, Charlotte J., Bridgeton, Ind. Support for Christmas trees	29,801	Dec. 13	85	1731
Taylor, Frank W., St. Paul, Minn. Collar or cuff button	29,563	Nov. 1	85	762
Taylor, George B., and H. B. Nichols, Philadelphia, Pa. Railway-rail	28,848	June 14	83	1649
Taylor, Harry A., New York, N. Y. Ladies' undervest	29,913	Dec. 27	85	2087
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Latch-bolt	29,384	Sept. 20	84	1862
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Latch-operating lever	29,385	Sept. 20	84	1862
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Latch-operating lever	29,386	Sept. 20	84	1862
Taylor, Zack, and M. L. Bergman, Spokane, Wash. Battery-electrode	28,492	Apr. 19	83	438
Tebbetts, Alvah C., Boston, Mass. Lip guard and protector	29,467	Oct. 11	85	282
Teeter, Theron, South Lansing, N. Y. Rein-holder	29,513	Oct. 18	85	447
Tesiny, George, Easton, Conn. Waistcoat	29,559	Oct. 25	85	606
Thawley, William M., Toronto, Canada. Advertising-sign for trolley-poles	29,641	Nov. 8	85	927
Theobald, Jean G., assignor to Frank M. Whiting Company, North Attleborough, Mass. Spoon or fork handle	28,630	May 17	83	1056
Theobald, Jean, assignor to Frank M. Whiting & Company, North Attleborough, Mass. Back for brushes or similar articles	29,275	Aug. 30	84	1427
Theobald, Jean G., assignor to Frank M. Whiting & Company, North Attleborough, Mass. Mount for dishes	29,325	Sept. 13	84	1720
Theobald, Jean, assignor to F. M. Whiting & Company, North Attleborough, Mass. Handle for nail-files or similar articles	29,433	Oct. 4	85	141
Theodore A. Kochs Company (See Rollert, Anton J., assignor.)				
Theodore Metcalf Company. (See Davidson, Frank A., assignor.)				
Theus, Simeon E., Savannah, Ga. Badge	29,611	Nov. 8	85	921
Thielke, Ferdinand, Brooklyn, N. Y. Handle for button-hooks	28,390	Mar. 22	82	1814
Thielke, Ferdinand, Brooklyn, N. Y. Handle for button-hooks	28,391	Mar. 22	82	1814
Thielke, Ferdinand, Brooklyn, N. Y. Handle for button-hooks, &c.	28,518	Apr. 26	83	590
Thiem, Rudolph, Hamilton, Ohio. Stove or range	29,181	Aug. 9	84	978
Thomas, Chauncey, Boston, Mass. Cab-body	29,678	Nov. 15	85	1072
Thomas, Chauncey, Boston, Mass. Cab-body	29,679	Nov. 15	85	1072
Thomas, Edward G., Boston, Mass. Film-holder	29,112	July 26	84	644
Thomas, Edward G., Boston, Mass. Film-holder	29,317	Sept. 6	84	1578
Thomas, Enoch K., assignor of one-half to H. Schiffer, New York, N. Y. Curtain-cloth for awnings	28,305	Feb. 15	82	1044
Thomas, Evalena S., Lindenwold, N. J. Tile	28,670	May 17	83	1062
Thomas, Frank A., Cedar Rapids, Iowa. Belaying-hook	29,041	July 12	84	304
Thomas, Jacob A., Reading, Pa. Bearing-screw for shade-rollers	28,802	June 7	83	1501
Thomas, Jacob A., and W. W. Driscoll, Reading, Pa. Nozzle	28,692	May 24	83	1198
Thomas, Richard M., Greensburg, Ind. Surgical stand	28,436	Mar. 29	82	1982
Thommen, William, assignor to Wisconsin Chair Company, Port Washington, Wis. Chair	28,819	June 7	83	1504
Thompson, Frank. (See Miller, John K., assignor.)				
Thompson, George L., Chicago, Ill. Bicycle-frame	29,243	Aug. 16	84	1136
Thompson, George L., Chicago, Ill. Bicycle-frame	29,244	Aug. 16	84	1136
Thompson, George L., Chicago, Ill. Bicycle-frame	29,245	Aug. 16	84	1136
Thompson, George L., Chicago, Ill. Front fork for velocipedes	29,486	Oct. 18	85	441
Thompson, Houson, St. Paul, Minn. Eraser	29,212	Aug. 16	84	1130
Thompson, Rufus F., Youngstown, Ohio. Badge	28,289	Feb. 15	82	1041
Thompson, William, assignor to Buck's Stove and Range Company, St. Louis, Mo. Fire-box lining	28,290	Feb. 15	82	1041
Thomson, James, Glenside, Pa. Fastening-eye	28,534	May 3	83	727
Tiffany & Company. (See Farnham, Paulding, assignor.)				
Tilton, George P., Newburyport, Mass. Spoon, fork, or similar article	28,924	June 28	83	1979
Timms, James, Columbus, Ohio. Car-coupling knuckle	29,446	Oct. 4	85	144
Timms, James, Columbus, Ohio. Car-coupling knuckle	29,447	Oct. 4	85	144
Tochtermann, Robert F., Munich, Germany. Member of combs	29,404	Sept. 27	84	2009
Todd & Co., Edward. (See Todd, Edward, Jr., assignor.)				
Todd, Edward, Jr., assignor to E. Todd & Co., New York, N. Y. Spoon	28,719	May 31	83	1331
Town, Jos. I. (See Gillespie, Frank P., assignor.)				
Towne, Elmer W., New York, N. Y. Skirt-band	28,246	Feb. 1	82	743
Towne, Henry R., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Key	29,786	Dec. 13	85	1728
Towne, Henry R., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Rim-latch case	29,895	Dec. 27	85	2083
Townsend, Edwin O., New York, N. Y. Monument	29,861	Dec. 20	85	1899
Townsend, Edwin O., New York, N. Y. Monument	29,862	Dec. 20	85	1899
Townsend, Samuel C., Baltimore, Md. Hat	29,099	July 26	84	641
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Try-square and miter	28,265	Feb. 8	82	886
Tribble, Joel P., <i>et al.</i> (See Kelley, Calhoun L., assignor.)				
Trice, Will F. (See Fligor and Trice.)				
Triner, James M., assignor to Pelouze Scale and Manufacturing Company, Chicago, Ill. Supporting-stem for scale-pans	29,064	July 19	84	499
Triner, James M., assignor to Pelouze Scale and Manufacturing Company, Chicago, Ill. Blank for scale-frames	29,889	Dec. 27	85	2082
Turner, Herbert L., <i>et al.</i> (See Peters, Heber C., assignor.)				
Turner, Herbert L., <i>et al.</i> (See Whitcher, Frank W., assignor.)				
Turney, George W., Chicago, Ill., assignor of one-half to Rome Manufacturing Company, Rome, N. Y. Spout for tea-kettles or similar articles	28,644	May 17	83	1058



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Tuttle, Silas, New York, N. Y. Register-fan.....	29,763	Dec. 6	85	1578
Tyberg, Oluf, Brooklyn, N. Y. Milling-machine column.....	28,123	Jan. 4	82	177
Tyden, Emil, Hastings, Mich. Seal-body.....	29,387	Sept. 20	84	1862
Tyden, Emil, Hastings, Mich. Seal.....	29,413	Sept. 27	84	2010
Ufford, Julia F., Boston, Mass. Tooth-brush.....	29,219	Aug. 16	84	1132
Ulmann, Carl J., New York, N. Y. Ornamental trimming-cord.....	29,693	Nov. 15	85	1074
Underhill, Francis M., <i>et al.</i> (See Whitall, John M., assignor.)				
Unger, Ernest, New York, N. Y., assignor, by mesne assignments, to Acetylene House Lighting Company, of West Virginia. Burner.....	28,649	May 17	83	1059
Union Special Sewing Machine Company (See Onderdonk, Lansing, assignor.)				
United Hame Company. (See Wilhelm, Edward, assignor.)				
United States Hardware Company. (See Wright, Granville W., assignor.)				
Updegrave, William M., Johnstown, Pa. Advertising-stand.....	28,855	June 14	83	1650
Van Auken, Willis G., Saginaw, Mich. Match-safe.....	29,818	Dec. 20	85	1892
Van Bergh, Frederick W., assignor to Van Bergh Silver Plate Co., Rochester, N. Y. Tea or coffee pot.....	28,610	May 10	83	908
Van Bergh Silver Plate Co. (See Van Bergh, Frederick W., assignor.)				
Van Cappellen, Charles, Brandon, Minn. Game-board.....	28,438	Mar. 29	82	1983
Van Houten, Erskine J. S., Nyack, N. Y. Lamp-chimney.....	28,183	Jan. 18	82	454
Van Nortwick, Benjamin K., Undercliff, N. J. Casing for steam-jet blowers.....	28,745	May 31	83	1335
Van Roden, George C., assignor to J. E. Caldwell & Co., Philadelphia, Pa. Badge.....	28,165	Jan. 18	82	450
Van Valkenburg, Randall T., Dayton, Ohio. Churn-dash.....	28,428	Mar. 29	82	1981
Van Voorhis, Mary J., Sycamore, Ohio. Blank for stocking-heel protectors.....	29,555	Oct. 25	85	606
Vantine & Co., A. A. (See Bryce, Howard M., assignor.)				
Vantine & Co., A. A. (See Franz, Charles, assignor.)				
Varni-Gardinier, Louise E., South Norwalk, Conn. Money-belt.....	29,490	Oct. 18	85	442
Vaughan, Alexander, assignor to Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Wrench-handle.....	29,767	Dec. 6	85	1578
Vaughan & Bushnell Manufacturing Company. (See Bushnell and Vaughan, assignors.)				
Vaughan & Bushnell Manufacturing Company. (See Vaughan, Alexander, assignor.)				
Vaughan & Bushnell Manufacturing Company. (See Vaughan and Bushnell, assignors.)				
Vaughan, David F., Haddonfield, N. J. Member of rail-bending implements.....	29,742	Nov. 29	85	1393
Vaughan, Sanford S. (See Bushnell and Vaughan.)				
Vaughan, Sanford S., and L. M. Bushnell, assignors to Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Wrench.....	29,108	July 26	84	643
Veeder, Curtis H., Hartford, Conn. Case for registers.....	29,175	Aug. 9	84	972
Veeder, Curtis H., Hartford, Conn. Case for registers.....	29,176	Aug. 9	84	972
Veeder, Curtis H., Hartford, Conn. Case for registers.....	29,177	Aug. 9	84	972
Veeder, Curtis H., Hartford, Conn. Case for registers.....	29,178	Aug. 9	84	972
Veeder, Curtis H., Hartford, Conn. Case for registers.....	29,179	Aug. 9	84	973
Veeder, Curtis H., assignor to Veeder Manufacturing Company, Hartford, Conn. Case for registers.....	29,222	Aug. 16	84	1132
Veeder Manufacturing Company. (See Veeder, Curtis H., assignor.)				
Vincent, Laro, Cuyler, N. Y. Member of staple-extracting tools.....	29,903	Dec. 27	85	2084
Vinson, Michael R., Waldo, Ark. Weeding-hoe.....	29,389	Sept. 20	84	1863
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Padlock-case.....	29,701	Nov. 22	85	1214
Vrooman, Harry S., Chicago, Ill. Fire-brick.....	29,840	Dec. 20	85	1895
Vrooman, Harry S., Chicago, Ill. Fire-brick.....	29,841	Dec. 20	85	1896
Vrooman, Harry S., Chicago, Ill. Fire-brick.....	29,842	Dec. 20	85	1896
W. J. Loth Stove Company. (See Weller, Ferdinand S., assignor.)				
Wagner, Constantine, New York, N. Y. Bottle.....	28,532	May 3	83	737
Wagner, Rudolph, New York, N. Y. Cabinet for coin-operated machines.....	28,995	July 5	84	137
Waibel, Frederick B., and H. Meytrott, assignors to Manhattan Brass Company, New York, N. Y. Cycle-lamp.....	29,790	Dec. 13	85	1729
Waite, Thresher Company. (See Crees and Court, assignors.)				
Waite, Thresher Company. (See Kranz, Louis, assignor.)				
Waite, Thresher Company. (See Stafford, Frank R., assignor.)				
Waldeck, George E., Jersey City, N. J. Box-body.....	29,645	Nov. 8	85	928
Walker, Adeline M., Elizabeth, N. J., and F. C. Jackson, New York, N. Y. Garment-hanger.....	28,445	Apr. 5	83	152
Walker, Adeline M., Elizabeth, N. J., and F. C. Jackson, New York, N. Y. Garment-hanger.....	28,449	Apr. 5	83	152
Walker, Arthur W., Malden, Mass. Grate-bar.....	28,361	Mar. 8	82	1553
Walker, Arthur W., Malden, Mass. Range.....	28,600	May 10	83	906
Walker, Hugh D., Preston, Canada. Stovepipe-thimble.....	29,102	July 26	84	642
Walker, William, Summit, N. J. Umbrella and cane support.....	28,264	Feb. 8	82	886
Walker, William, Summit, N. J. Tool.....	29,832	Dec. 20	85	1894
Wall, David M. J., assignor to L. Wall, Buffalo, N. Y. Badge.....	29,432	Oct. 4	85	141
Wall, Lillie. (See Wall, David M. J., assignor.)				
Wall, Louis J. W., St. Louis, Mo. Pattern for paper.....	28,712	May 24	83	1201
Wallace, David S., Kokomo, Ind. Flush-tank for water-closets.....	28,472	Apr. 12	83	290
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, &c.....	28,113	Jan. 4	82	176
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for forks, &c.....	28,155	Jan. 11	82	331
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, forks, &c.....	28,524	May 3	83	736
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, forks, or similar articles.....	29,120	Aug. 2	84	796
Walter, Alphonse, New York, N. Y. Storage and display case.....	29,236	Aug. 16	84	1134
Wandersee, Charles, Chicago, Ill. Shaft-tug.....	28,809	June 7	83	1502
Ward, Charles D., Toulon, Ill. Eaves-trough hanger.....	28,359	Mar. 8	82	1552
Ward, Harry, Newark, N. J., assignor to O. E. A. Wiessner, Brooklyn, N. Y. Headboard or foot-board for bedsteads.....	28,367	Mar. 8	82	1554
Ward, Harry, Newark, N. J., assignor to O. E. A. Wiessner, Brooklyn, N. Y. Headboard or foot-board for bedsteads.....	28,368	Mar. 8	82	1554
Ward, Harry, Newark, N. J., assignor to O. E. A. Wiessner, Brooklyn, N. Y. Headboard or foot-board for bedsteads.....	28,369	Mar. 8	82	1555
Ware, Edwin O., Salem, Ohio. Riveting-press frame.....	28,216	Jan. 25	82	591
Warner Brothers Company. (See Warner, De Ver H., assignor.)				
Warner, De Ver H., Bridgeport, Conn. Bustle.....	28,275	Feb. 8	82	888
Warner, De Ver H., Bridgeport, Conn. Holder for garment-supporters.....	28,303	Feb. 15	82	1044
Warner, De Ver H., assignor to Warner Brothers Company, Bridgeport, Conn. Holder for garment-supporters.....	29,226	Aug. 16	84	1132
Warren, George E., Cambridge, Mass. Confectionery-tray.....	28,415	Mar. 29	82	1979
Warren, Robert H., Newark, N. J. Stair-carpet button.....	28,801	June 7	83	1501
Washington, Martha, Philadelphia, Pa. Thimble and scissors case.....	28,175	Jan. 18	82	452



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Waterbury Watch Company. (See Hart, Edwin, assignor.)				
Watrous Manufacturing Company. (See Strohhaker, Gustav, assignor.)				
Watson, Newell Company. (See Crees and Court, assignors.)				
Way, John H., Hastings, Nebr. Chimney-protector	29,498	Oct. 18	85	443
Wearne, Harry, Rixheim, Germany. Wall-paper	29,655	Nov. 8	85	930
Wearne, Harry, Rixheim, Germany. Wall-paper	29,656	Nov. 8	85	930
Wearne, Harry, Rixheim, Germany. Wall-paper	29,657	Nov. 8	85	930
Wearne, Harry, Rixheim, Germany. Wall-paper	29,658	Nov. 8	85	930
Wearne, Harry, Rixheim, Germany. Wall-paper	29,659	Nov. 8	85	931
Wearne, Harry, Rixheim, Germany. Wall-paper	29,660	Nov. 8	85	931
Wearne, Harry, assignor to J. Zuber & Cie., Rixheim, Germany. Wall-paper	29,694	Nov. 15	85	1074
Weathers, Mary B., Lenoir, N. C. Cradle-guard	29,638	Nov. 8	85	926
Webb, George W., Ilion, N. Y. Belt hook or staple	29,405	Sept. 27	84	2009
Webber, Arthur C., assignor of one-half to H. F. Frost, Knowlesville, N. Y. Cream-separator	28,816	June 7	83	1503
Weber, Bruno, Veedersburg, Ind. Paving-brick	28,376	Mar. 15	82	1682
Webster, George K. (See Crees and Court, assignors.)				
Webster, George K. (See Egge, Gustave C., assignor.)				
Webster, George K. (See Straker, Joseph E., Jr., assignor.)				
Wedmore, Henry S., Guilford, Conn. Bicycle-holder	28,589	May 10	83	904
Weeden, Henry C., Quincy, Mass. Casing for stop-cocks	29,473	Oct. 11	85	283
Wehrle, William W., Newark, N. J. Cooking-stove	29,394	Sept. 20	84	1864
Weidhass, Gustave A., Jr., New York, N. Y. Bicycle-frame fork	28,227	Feb. 1	82	740
Weidman, Henry A., assignor to J. F. Simons, T. Maddock, Philadelphia, F. M. Simons, Swarthmore, Pa., and E. S. Simons, Orange, N. J. Back for brushes, &c	29,218	Aug. 16	84	1131
Weir, Robert F. (See Dean and Weir.)				
Weiss, Georg, Chicago, Ill. Lamp-body	29,365	Sept. 20	84	1859
Weiss, Nathan, New York, N. Y. Box for cigars or cigarettes	29,056	July 19	84	498
Weller, Ferdinand S., Quincy, Ill., assignor to W. J. Loth Stove Company, Waynesborough, Va. Heater	28,603	May 10	83	907
Wellhouse, Alvin, Atlanta, Ga. Paper bag	28,240	Feb. 1	82	742
Wells, Frank B., Masonville, N. Y. Game-board	29,250	Aug. 16	84	1137
Wengler, John R., Allenton, Md. Pipe	29,363	Sept. 20	84	1858
West, Arnold J., Aberdeen, Wash. Railway-tie	29,683	Nov. 15	85	1072
West, Mansfield M., Cleveland, Ohio. Shoe-plate	28,537	May 3	83	738
Weston, Edward, Newark, N. J. Index needle or hand	28,392	Mar. 22	82	1814
Weston, Edward, Newark, N. J. Index needle or hand	28,393	Mar. 22	82	1814
Weston, Edward, Newark, N. J. Case for electrical measuring instruments	28,394	Mar. 22	82	1814
Weston, Edward, Newark, N. J. Electrical-instrument case	28,395	Mar. 22	82	1814
Weston, Edward, Newark, N. J. Electrical-instrument case	28,396	Mar. 22	82	1815
Wetherald, James T., Boston, Mass. Syringe-nozzle	28,861	June 14	83	1651
Wetmore, Clayton F. (See Stein and Wetmore.)				
Wheat, Jean, Wallville, Ind. Ter. Cultivator-blade	29,341	Sept. 13	84	1722
Wheatfield, Jacob, Baltimore, Md. Blank for garment-fastening hooks	28,978	July 5	84	134
Wheeler, Andrew J., Comanche, Tex. Cam-wheel	28,354	Mar. 8	82	1552
Wheeler, Benjamin F., assignor to Wheeler Saddle Company, Detroit, Mich. Bicycle-saddle	28,435	Mar. 29	82	1982
Wheeler, George T., assignor of seven-ninths to W. S. and J. F. Lansing, Mexico, and D. R. Fritts, Parish, N. Y. Cream-separator	29,715	Nov. 22	85	1217
Wheeler, John. (See Edison and Wheeler.)				
Wheeler Saddle Company. (See Wheeler, Benjamin F., assignor.)				
Whipple, Effinger E., Utica, N. Y. Curved spring harrow-tooth	29,157	Aug. 2	84	802
Whipple, Marcus M., 2d, Sharon, Mass. Feed-plate for leather-splitting machines	29,477	Oct. 11	85	284
Whisler, Arrah J., Kokomo, Ind. Tire-repairing plug	29,268	Aug. 23	84	1277
Whitaker, Richard, assignor to Neverslip Manufacturing Company, New Brunswick, N. J. Horse-shoe-pad	29,580	Nov. 1	85	766
Whitaker, Richard, assignor to Neverslip Manufacturing Company, New Brunswick, N. J. Horse-shoe-pad	29,581	Nov. 1	85	766
Whitall, John M., Philadelphia, Pa., assignor to himself, C. A. Tatum, F. M. Underhill, New York, N. Y., and J. W. Nicholson, Moorestown, N. J. Bottle	28,182	Jan. 18	82	453
Whitcher, Frank W., et al. (See Peters, Heber C., assignor.)				
Whitcher, Frank W., Boston, Mass. Incising-die	29,824	Dec. 20	85	1893
Whitcher, Frank W., Boston, assignor to himself, S. Crandon, Melrose, and H. L. Turner, Malden, Mass. Rubber sole	29,857	Dec. 20	85	1898
White, Edward F., Quincy, assignor to C. F. Brown, trustee, Reading, Mass. Seam-rubbing tool	29,766	Dec. 6	85	1578
White, Frederick L. (See Zimmerman and White.)				
White, Frederick L., assignor, by mesne assignments, to Calcium King Lamp Company, Waterbury, Conn. Bicycle-lamp	29,269	Aug. 23	84	1277
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Lamp-body	29,406	Sept. 27	84	2009
White, T. S., et al. (See Reed, Charles J., assignor.)				
White, William, Rutherford, N. J., assignor to C. Whitman & Co., New York, N. Y. Bedspread	29,257	Aug. 23	84	1275
White, William H. (See Gilfillan and White.)				
White, Willie B., Cleveland, Ohio. Box for speed-wagons	28,274	Feb. 8	82	888
White, Willie B., Cleveland, Ohio. Body for speed-wagons	29,771	Dec. 6	85	1579
Whitehead, Benjamin S., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Badge	29,783	Dec. 13	85	1728
Whitehead, Benjamin S., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Badge	29,784	Dec. 13	85	1728
Whitehead & Hoag Company. (See Keil, Augustus J., assignor.)				
Whitehead & Hoag Company. (See Whitehead, Benjamin S., assignor.)				
Whiting Manufacturing Company. (See Osborne, Charles, assignor.)				
Whitman & Barnes Manufacturing Company. (See Martin, Henry J., assignor.)				
Whitman & Barnes Manufacturing Company. (See Motherwell, David M., assignor.)				
Whitman & Co., Clarence. (See White, William, assignor.)				
Whitney, Oliver B., Marlborough, N. Y. Brake-shoe	28,542	May 3	83	738
Whitney, Thomas J., and I. Haaz, Philadelphia, Pa. Flagstaff	29,194	Aug. 9	84	975
Whittemore, William E., Hartford, Conn. Cuspidor-cleaner	28,707	May 24	83	1200
Wieber, Henry E., Kingston, N. Y. Strainer for catch-basins	28,964	June 28	83	1986
Wiener Brothers. (See Bens, William, assignor.)				
Wiessner, Oscar E. A. (See Ward, Harry, assignor.)				
Wiessner, Oscar E. A., New York, N. Y. Bedstead end board	29,188	Aug. 9	84	974
Wiggins, Benjamin M., Philadelphia, Pa. Blotter for check or similar books	28,911	June 21	83	1795
Wilbor, Samuel O., Little Compton, R. I. Driving-crank	29,297	Aug. 30	84	1430
Wilcox, John T., assignor to A. W. Williams and G. L. Winn, Leominster, Mass. Comb	28,156	Jan. 11	82	331
Wilcoxson, George F. (See Cushman, Joseph W., assignor.)				
Wilder, Edward B., St. Louis, Mo. Nozzle for syringes	28,210	Jan. 25	82	590
Wilder, Harlan P., Gardner, Mass. Collar	28,914	June 21	83	1795
Wilhelm, Edward, assignor to United Hame Company, Buffalo, N. Y. Hame-hook	29,267	Aug. 23	84	1277



*Alphabetical list of patentees of designs—Continued.*

Name, residence, and design.	No.	Date.	Official Gazette.	
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Wilkes Barre Lace Manufacturing Company. (See Doran, John W., assignor.)				
Wilkin, John T., Connersville, Ind. Impeller	29,762	Dec. 6	85	1578
Willard, Ben, Schenectady, N. Y., assignor to General Electric Company, of New York. Cap for insulators	28,981	July 5	84	135
Willard, George W., Detroit, Mich. Window-pole and picture-hook hanger	29,286	Aug. 30	84	1429
Williams, Albert W., <i>et al.</i> (See Wilcox, John T., assignor.)				
Williams, Alfred G. (See Havell and Williams.)				
Williams, Edgar L., Peoria, Ill. Game-board	29,650	Nov. 8	85	929
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Spoon	28,788	June 7	83	1499
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Spoon or similar article	29,725	Nov. 29	85	1390
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Cup	29,814	Dec. 20	85	1892
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Cup	29,815	Dec. 20	85	1892
Williams, John R., Scranton, Pa. Horseshoe-calk	29,793	Dec. 13	85	1730
Williams, Richard S. (See McGuire and Williams.)				
Williamson, William A., Newark, N. J. Cap-lift	29,798	Dec. 13	85	1730
Wilson, Frank J., Marengo, Iowa. Snap-hook	29,474	Oct. 11	85	283
Wilson, George A., Boston, Mass. Puzzle game-board	29,855	Dec. 20	85	1898
Wilson, James B. (See Ormiston, Philo J., assignor.)				
Wilson, James E., Bridgeport, Conn. Lever attachment for bicycles	29,340	Sept. 13	84	1722
Wilson, Joseph, New York, N. Y. Glass pitcher, &c	28,282	Fed. 15	82	1040
Winger, Oswald E., Joliet, Ill. Window-light	29,113	July 26	84	644
Winger, Oswald E., Joliet, Ill. Window-light	29,114	July 26	84	645
Winn, George L., <i>et al.</i> (See Wilcox, John T., assignor.)				
Wipfler, Charles W., Detroit, Mich. Reservoir for stoves	28,708	May 24	83	1200
Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company, of New York. Lightning-arrester	29,370	Sept. 20	84	1859
Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company, of New York. Lightning-arrester	29,371	Sept. 20	84	1860
Wisconsin Chair Company. (See Coffman, James H., assignor.)				
Wisconsin Chair Company. (See Thommen, William, assignor.)				
Wiseman, Darwin E., assignor to Glascock Bros. Manufacturing Company, Muncie, Ind. Kitchen-cabinet	29,887	Dec. 27	85	2081
Wiswell, Henry W. (See Packard and Wiswell.)				
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Ornamentation for boxes	28,910	June 21	83	1795
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Label	29,755	Dec. 6	85	1576
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Label	29,865	Dec. 27	85	2077
Wm. H. Horstmann Company. (See Pietschmann, Emil, assignor.)				
Woglom, Howard C., Hartford, Conn. Paper-weight	29,532	Oct. 25	85	602
Wojdkow, Louis, New York, N. Y. Stand for chafing-dishes	29,879	Dec. 27	85	2080
Wolff, Aaron H., New York, N. Y. Stove	29,240	Aug. 16	84	1135
Wolff, Aaron H., New York, N. Y. Gas stove or radiator	29,843	Dec. 20	85	1896
Wood, Clarence W. (See Konrad, John C., assignor.)				
Wood, Clarence W., New York, N. Y. Wagon-body	28,236	Feb. 1	82	741
Wood, Frederick, Liverpool, England. Snap-hook	28,694	May 24	83	1198
Woodhull, Bradley, Dunmore, assignor to Scranton Stove Works, Scranton, Pa. Shelf-section for stoves or ranges	28,599	May 10	83	906
Woodhull, Bradley, Dunmore, assignor to Scranton Stove Works, Scranton, Pa. Stove or range	28,663	May 17	83	1061
Woodhull, Bradley, Dunmore, assignor to Scranton Stove Works, Scranton, Pa. Stove or range	28,664	May 17	83	1061
Woodhull, Bradley, Dunmore, assignor to Scranton Stove Works, Scranton, Pa. Heating-stove	28,766	May 31	83	1338
Woodhull, Bradley, Dunmore, assignor to Scranton Stove Works, Scranton, Pa. Heating-stove	28,820	June 7	83	1504
Woodruff, James W., Berlin, Conn. Blank for toy wind-wheels	29,048	July 12	84	306
Woods, Edward D., Granville, N. Y. Sickle	29,626	Nov. 8	85	924
Woodside, James L., Hawarden, Iowa. Chimney-cap	28,237	Feb. 1	82	742
Woodward, Robert G., Alameda, Cal. Bicycle-carrier	28,153	Jan. 11	82	330
Wooley, George W., St. Paul, Minn. Bracket for planters	28,948	June 23	83	1984
Wormser, Lillian, Trenton, N. J. Box for ash-sifters	29,103	July 26	84	642
Wormwood, Kate B., <i>et al.</i> , executors (See Wormwood, Samuel P.)				
Wormwood, Luther H., <i>et al.</i> , executors. (See Wormwood, Samuel P.)				
Wormwood, Samuel P., deceased; M. F. Dickinson, Jr., Cohasset, K. B. and L. H. Wormwood, Newton, Mass., executors. Toe-calk	29,794	Dec. 13	85	1730
Worth, Mason G., Philadelphia, Pa. Roll for rolling metals	29,633	Nov. 8	85	925
Worthington, Hood, Danville, Ky. Punching-die	29,066	July 19	84	500
Wright, Granville W., assignor to United States Hardware Company, New Haven, Conn. Toy	28,551	May 3	83	740
Wrigley, Horatio. (See Sweeney and Wrigley.)				
Wuest, Jacob, Anglum, Mo. Protector for lamp-chimneys	29,289	Aug. 30	84	1429
Wurst, Charles F. C. (See Hayden and Wurst.)				
Wyman, Clark E., assignor to Griggs, Cooper & Co., St. Paul, Minn. Grocer's cabinet	28,498	Apr. 19	83	439
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)				
Yale & Towne Manufacturing Company. (See Towne, Henry R., assignor.)				
Yarrington, Ella M., and T. Hall, New York, N. Y. Child's napkin	28,778	May 31	83	1341
Young, Edward T., Boston, Mass. Toy	28,206	Jan. 18	82	458
Young, George K., Auburn, N. Y. Hammer-body	28,662	May 17	83	1061
Yunck, Frederick, Bryan, Ohio. Shelf-table	28,365	Mar. 8	82	1554
Zecher, Frank J., Lancaster, assignor to Grey Iron Casting Company, Limited, Mount Joy, Pa. Toy bank	29,686	Nov. 15	85	1073
Zeller, George C., <i>et al.</i> (See Loveless, Fred H., assignor.)				
Zeltmacher, Tillie J., New York, N. Y. Locket	28,678	May 24	83	1195
Ziegler, Alfred, and J. O. Remington, Boston, Mass. Shade-pull	28,188	Jan. 18	82	454
Ziegler, William F., Lincoln, Kans. Plow-point	29,444	Oct. 4	85	144
Zimmele, John J., Merchantville, N. J. Clip-post	28,890	June 21	83	1791
Zimmele, John J., Merchantville, N. J. Hinge-post	28,891	June 21	83	1791
Zimmerman, Charles, Frederick, Md. Bracket for shutter-bowers	28,285	Feb. 15	82	1040
Zimmerman, Charles, Frederick, Md. Shutter-brace	29,337	Sept. 13	84	1722
Zimmerman, Charles L., Chicago, Ill. Lamp-body	29,568	Nov. 1	85	763
Zimmerman, Harry, Frederick, Md. Shutter-lock	28,284	Feb. 15	82	1040
Zimmerman, John, Chicago, Ill., and F. L. White, Waterbury, Conn.; said White assignor to said Zimmerman. Vehicle-lamp	28,593	May 10	83	905
Zoerb, William, Dedham, Mass. Eyeglass or spectacle case	29,220	Aug. 16	84	1132
Zuber & Cie., J. (See Wearne, Harry, assignor.)				







ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
A. Kiefer Drug Company, Indianapolis, Ind. Medical preparation for the cure of certain named diseases	31,115	Jan. 11	82	333
A. Kiefer Drug Company, Indianapolis, Ind. Medical preparation for the cure of diseases of the liver	31,116	Jan. 11	82	333
Abraham, Adolf, Berlin, Germany. Dental cement	31,299	Feb. 22	82	1206
Acker & Affleck, Washington, D. C. Liquid remedy for nervous and head ailments	32,131	Nov. 8	85	933
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Photographic developers	31,337	Mar. 1	82	1413
Adams & Westlake Company, Chicago, Ill. Cycles, as bicycles, tricycles, and quadricycles, and light vehicles of similar character and their parts	31,327	Feb. 22	82	1208
Adler, Emanuel. (See Adler, Emma and E. B.)				
Adler, Emma and E. B., Pittsburg, Pa.; H. Adler, trustee. Gas-burners	31,366	Mar. 1	82	1416
Adler, Emma and E. B., Pittsburg, Pa.; H. Adler, trustee. Gas stoves and heaters	32,280	Dec. 20	85	1903
Adler, Henry, trustee. (See Adler, Emma and E. B.)				
Æolian Company, Meriden, Conn., and New York, N. Y. Automatic piano-players	31,412	Mar. 8	82	1559
Ætna Powder Company, Ætna, Ind., and Chicago, Ill. Dynamite, dynamite-cartridges, blasting-gelatin, detonating caps, and fuses	31,523	May 10	83	912
Akron Varnish Company, Akron, Ohio. Varnish for interior and exterior finishing	31,520	May 10	83	911
Akron Varnish Company, Akron, Ohio. Varnish	31,603	May 24	83	1206
Aktiebolaget Södertelje Tändsticksfabrik, Södertelje, Sweden. Safety-matches	31,462	Apr. 12	83	293
Alaska Packers Association, San Francisco, Cal. Canned salmon	31,097	Jan. 4	82	183
Albert Dickinson Company, Chicago, Ill. Grass, clover, and field seeds and seed-grains	31,078	Jan. 4	82	181
Albert Landreth Company, Manitowoc, Wis. Canned peas	32,106	Nov. 1	85	773
Albert Landreth Company, Manitowoc, Wis. Canned peas	32,144	Nov. 8	85	934
Allen Bros., Omaha, Nebr. Baking-powder and yeast	31,216	Feb. 8	82	890
Allen, Emons, Cuyler, N. Y. Medicine for certain named diseases	32,273	Dec. 20	85	1903
Allen & Hanburys, Limited, London, England. Medicaments having as a base fluid extract of malt	31,459	Apr. 12	83	293
Allen & Hanburys, Limited, London, England. Compound of malt and cod-liver oil	31,504	May 3	83	741
Allen & Hanburys, Limited, London, England. Medicinal preparations and medicated foods	31,505	May 3	83	741
Allen & Hanburys, Limited, London, England. Medicinal preparations and medicated foods	31,506	May 3	83	741
Allen & Hanburys, Limited, London, England. Fluid extract of malt	31,694	June 14	83	1057
Allen & Marshall, Philadelphia, Pa. Cigars	31,497	May 3	83	741
Allison, Samuel B., New Orleans, La. Disinfectants	31,300	Feb. 22	82	1206
Altman, Benjamin, New York, N. Y. Gloves	31,548	May 17	83	1064
Altman, Benjamin, New York, N. Y. Rugs	32,056	Oct. 18	85	450
Alton, Jesse W., Cleveland, Ohio. Compounds for cleaning glass, metal, earthenware, and other articles having smooth surfaces	31,938	Sept. 6	84	1581
American Automatic Banjo Company, New York, N. Y. Banjos	31,245	Feb. 15	82	1015
American Coffee Company, Jersey City, N. J., and New York, N. Y. Coffee roasted in the bean	31,094	Jan. 4	82	183
American Coffee Company, New York, N. Y. Roasted coffee	31,899	Aug. 23	84	1280
American Compressed Food Company, Passaic, N. J. Compressed food	31,788	July 5	84	144
American Cotton Company, New York, N. Y. Cylindrical cotton-bales	31,380	Mar. 8	82	1556
American E. C. & Schultze Gunpowder Company, Limited, London, England, and Oakland, N. J. Powder	32,238	Dec. 13	85	1736
American Glove Company, Chicago, Ill. Gloves and mittens	31,931	Sept. 6	84	1580
American Machinist Publishing Company, New York, N. Y. Periodicals	31,179	Feb. 1	82	745
American Multiple Fabric Company, Olneyville, R. I. Multiple-woven fabrics	31,142	Jan. 11	82	336
American News Company, New York, N. Y. Bicycles	31,642	May 31	83	1344
American News Company, New York, N. Y. Bicycles	31,643	May 31	83	1344
American Optical Company, Southbridge, Mass. Spectacles and eyeglasses	31,246	Feb. 15	82	1045
American Pin Company, Waterbury, Conn. Hooks and eyes	31,863	Aug. 9	84	980
American Pin Company, Waterbury, Conn. Pins	31,932	Sept. 6	84	1580
American Pin Company, Waterbury, Conn. Hooks and eyes	32,033	Oct. 4	85	148
American Pulley Company, Philadelphia, Pa. Wrought-steel pulleys	31,276	Feb. 15	82	1048
American Silk Label Manufacturing Co., New York, N. Y. Silk and serge belting	32,224	Dec. 13	85	1734
American Soap Manufacturing Co., Philadelphia, Pa. Toilet, scouring, and cleansing soap	31,074	Jan. 4	82	181
American Souvenir Card Company, New York, N. Y. Cards, writing-paper, and envelopes	31,144	Jan. 18	82	459
American Tin Plate Company, Chicago, Ill. Iron, steel, and manufactures	31,279	Feb. 15	82	1048
American Writing Machine Company, Ilion and New York, N. Y. Type-writing machines	31,763	June 28	83	1989
American Yeast Company, Berea, Ohio. Yeast	31,729	June 21	83	1799
Anderson Bros. & Co., New York, N. Y. Ceylon tea	31,670	June 7	83	1510
Anderton Brewing Company, Beaver Falls, Pa. Lager-beer	31,360	Mar. 1	82	1415
Anti-Cephalic Chemical Co., Indianapolis, Ind. Medicinal tablets	31,588	May 24	83	1204
Anton, George, Monongahela, Pa. Miners' lamps	32,097	Oct. 25	85	608
Arbuckle Bros., New York, N. Y., Pittsburg, Pa., and Chicago, Ill. Tea	32,259	Dec. 20	85	1901
Archer & Heide, Plymouth and Detroit, Mich. Certain spring-water	31,267	Feb. 15	82	1047
Archibald Turner & Company, Limited, Leicester, England. Elastic fabrics	31,165	Jan. 25	82	593
Ardito, Giambattista, Hoboken, N. J. Remedy for rheumatism	31,714	June 21	83	1797
Arkell Publishing Company, New York, N. Y. Weekly publication containing general news and literature	31,339	Mar. 1	82	1413
Arkell Publishing Company, New York, N. Y. Magazine containing stories and general literature	31,340	Mar. 1	82	1414
Arkell Publishing Company, New York, N. Y. Periodicals	31,441	Mar. 29	82	1985
Arkell Publishing Company, New York, N. Y. Periodicals	31,484	Apr. 26	83	591
Arkell & Smith, Canajoharie, N. Y. Paper-fabric, wrapping or packing paper, paper interlinings, and paper wearing-apparel	32,019	Oct. 4	85	147
Armour & Co., Chicago, Ill. Family soap	31,461	Apr. 12	83	293
Armstrong Cork Company, Pittsburg, Pa. Bottle-corks and finished cork articles	32,127	Nov. 8	85	932
Armstrong Manufacturing Company, Berwick, Me., and Boston, Mass. Effervescent granules for beverages and medicinal purposes	31,680	June 14	83	1656
Arnholt & Schaefer Brewing Company, Philadelphia, Pa. Lager-beer	31,421	Mar. 15	82	1686
Arnold, Harry, Baltimore, Md. Certain remedy for nervous ailments and sequelæ	31,895	Aug. 23	84	1279
Arnold, Schiff & Co., New York, N. Y. Men's umbrellas	31,107	Jan. 4	82	184



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Arnold, Schwinn & Company, Chicago, Ill. Bicycles .....	31,827	July 26	84	646
Arnold, William W., Denver, Colo. Cigars .....	31,669	June 7	83	1509
Arnold, William W., Denver, Colo. Cigars, tobacco, and cigarettes .....	31,697	June 14	83	1657
Asepta Chemical Company, New York, N. Y. Remedy for consumption, malaria, and other germinal diseases .....	31,182	Feb. 1	82	745
Ashcroft Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Steam-gages .....	31,465	Apr. 12	83	294
Aspell & Company, New York, N. Y. Rye whisky .....	32,006	Sept. 27	84	2015
Aspell & Company, New York, N. Y. Scotch whisky .....	32,007	Sept. 27	84	2015
Aspell & Company, New York, N. Y. Old Tom gin .....	32,008	Sept. 27	84	2015
Aspell & Company, New York, N. Y. Holland gin .....	32,009	Sept. 27	84	2015
Atlantic Peanut Refinery, Philadelphia, Pa. Peanut-butter .....	32,254	Dec. 20	85	1900
August Gast Bank-Note and Lithographing Company, St. Louis, Mo. Paper designed to expose erasures thereon .....	31,250	Feb. 15	82	1045
August Loh Söhne, Aktiengesellschaft für Militärausrüstungen, Berlin, Germany. Creams for cleaning and polishing metals and metallic wares .....	31,284	Feb. 22	82	1204
Aurora Manufacturing Company, Little Rock, Ark. Castor-oil .....	31,402	Mar. 8	82	1558
Austin, John H., Grand Forks, N. D. Antiseptic dandruff-destroyer and new-hair grower .....	32,111	Nov. 1	85	774
Avery, Cyrus M., Chicago, Ill. Certain culinary utensils .....	31,113	Jan. 11	82	333
Avery Stamping Company, Cleveland, Ohio. Steel shovels, spades, and scoops .....	31,431	Mar. 22	82	1817
B. B. Mineral Springs Company, Bowling Green, Mo. Certain bitter mineral water .....	31,566	May 17	83	1066
Badger Brass Manufacturing Company, Kenosha, Wis. Acetylene-gas lamps .....	31,943	Sept. 6	84	1581
Baeck, Eugene C., Yonkers, N. Y. Remedy for catarrh and poor eyesight .....	31,773	July 5	84	142
Baer, William J., H. H. Yarnell, and J. A. Zimmerman, Connellsville, Ind. Washing-tablet .....	31,086	Jan. 4	82	182
Bahlsen, Hermann, Hanover, Germany. Biscuits .....	31,986	Sept. 20	84	1867
Baker & Co., Manuel J., Toronto, Canada. Shampoo-soap .....	31,171	Jan. 25	82	594
Baker, George F., Philadelphia, Pa. Compound tinctures .....	32,110	Nov. 1	85	774
Baldwin Cycle Chain Company, Worcester, Mass. Bicycle-chains .....	31,446	Mar. 29	82	1985
Balfour, Guthrie & Co., San Francisco, Cal., Portland, Oreg., and Tacoma, Wash. Canned fish and fruits .....	31,568	May 17	83	1066
Ballin & Sons, M., New York, N. Y. Certain named wearing-apparel for men, boys, and youths .....	32,077	Oct. 18	85	452
Balsa y Hermano, Vera Cruz, Mexico. Cigars .....	31,608	May 31	83	1342
Bangor Roofing Slate Manufacturers' Association, Bangor, Pa. Quarried slate and articles in which slate is used .....	31,969	Sept. 13	84	1726
Bar-Ben Remedies Company, Cleveland, Ohio. Remedies for nervous diseases and general debility in liquid and tablet form .....	31,372	Mar. 1	82	1416
Bardenherir, John, St. Louis, Mo. Vegetable-powder pile cure .....	32,285	Dec. 27	85	2088
Barnes & Co., A. S., New York, N. Y. Pens .....	32,023	Oct. 4	85	147
Barron, Charles A., Tacoma, Wash. Steam-generators for supplying steam for heating purposes .....	31,657	June 7	83	1509
Bartholomae & Roesing Brewing and Malting Company, Chicago, Ill. Lager-beer .....	31,326	Feb. 22	82	1208
Barton & Guestier, Bordeaux, France. Wines .....	32,257	Dec. 20	85	1901
Battle, Laura E., St. Louis, Mo. Liquid nutritive stimulant beverage .....	31,498	May 3	83	741
Bauer & Cie., Berlin, Germany. Dietetic albuminous preparations .....	31,357	Mar. 1	82	1415
Baxter & Bro., H. C., Brunswick, Me. Certain named canned goods .....	31,688	June 14	83	1656
Bayle, George A., St. Louis, Mo. Mustard, pickles, and sauces .....	31,854	Aug. 9	84	979
Beahler, George A., Palace Valley, W. Va. Certain named medicinal remedies .....	31,805	July 12	84	308
Beatty, John W., and A. W. Fuller, Norwalk, Conn. Wood-fillers .....	32,135	Nov. 8	85	983
Beaty, Marshal, Cincinnati, Ohio. Medicinal preparations for inhalation and a cerate for cure of catarrh, asthma, bronchitis, hay-fever, and consumption .....	31,917	Aug. 30	84	1432
Beggs & Co., E. J., New York, N. Y. Chemical preparations and chemicals of brewers' supplies .....	31,088	Jan. 4	82	182
Belcher, Cassius E., Jersey Shore, Pa. Ointments .....	32,193	Nov. 29	85	1396
Benjamin Moore & Company, New York, N. Y. Mural decorations .....	31,858	Aug. 9	84	980
Bennett Combination Saw-Tool Company, New York, N. Y. Saws and saw-tools .....	31,906	Aug. 30	84	1431
Bent, George P., Chicago, Ill. Pianos and organs .....	31,513	May 3	83	742
Berghoff, Gustav A., Fort Wayne, Ind. Washing-powder .....	31,473	Apr. 19	83	441
Bernard & Co., Leith, Scotland. Whisky .....	31,174	Jan. 25	82	594
Bickelhaupt, Adam, Redwood, N. Y. Cheese made from sweet milk of cows .....	31,559	May 17	83	1065
Bildstein, Carl, Ottoville, Ohio. Remedy for hog-cholera .....	31,207	Feb. 1	82	748
Bird & Co., J. A. & W., Boston, Mass. Glues, sizes, paints, and colors .....	31,757	June 28	83	1989
Bird & Co., J. A. & W., Boston, Mass. Certain named chemical compounds .....	32,194	Nov. 29	85	1396
Bird, Harry L., Benton Harbor, Mich. Medicines for diseases of the throat and lungs .....	32,206	Dec. 6	85	1582
Birmingham Small Arms Company, Limited, Birmingham, England. Bicycles, tricycles, velocipedes, and parts thereof .....	32,132	Nov. 8	85	933
Bishop Chemical Company, Limited, Wyandotte, Mich. Toilet and medicinal preparation for the hair .....	31,495	Apr. 26	83	592
Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweepers .....	31,399	Mar. 8	82	1558
Blackmore, Henry S., Mount Vernon, N. Y., and Philadelphia, Pa. Disinfectants, germicides, or deodorizing compounds .....	31,702	June 14	83	1658
Bliss & Co., L. C., Boston, Mass. Calfskins .....	31,758	June 28	83	1989
Bloomington, Lyman G., New York, N. Y. Boots and shoes .....	31,253	Feb. 15	82	1045
Bloomington, Lyman G., New York, N. Y. Cigars .....	31,960	Sept. 13	84	1725
Bodenhausen, Eberhard von, Berlin, Germany. Albuminates and compounds thereof for certain named purposes .....	32,158	Nov. 15	85	1075
Bond, John B., Sr., Little Rock, Ark. Cathartic pills .....	32,174	Nov. 22	85	1219
Boroline Chemical Co., Baltimore, Md. Antiseptic tablets and powders for certain named purposes .....	31,347	Mar. 1	82	1414
Boston Manufacturing Company, Waltham, Mass. Cotton sheetings .....	31,859	Aug. 9	84	980
Boston Manufacturing Company, Waltham, Mass. Cotton sheetings .....	31,612	May 31	83	1342
Boyer's Sons, L., New York, N. Y. Certain named beverages and mineral waters .....	31,613	May 31	83	1342
Boyle & McGlinn, Philadelphia, Pa. Whisky .....	31,720	June 21	83	1798
Bradbury, Harriet J., Boston, Mass. Food beverage .....	31,538	May 10	83	913
Bragg, Harry, Connorsville, Ind. Hog-cholera remedies .....	31,220	Feb. 8	82	890
Branch, Charles J., Chicago, Ill. Remedies for rendering tobacco harmless .....	31,589	May 24	83	1205
Brandauer & Co., C., Birmingham, England. Steel pens .....	31,426	Mar. 15	82	1686
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,493	Mar. 22	82	1817
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,619	May 31	83	1343
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,620	May 31	83	1343
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,621	May 31	83	1343
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,622	May 31	83	1343
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,623	May 31	83	1343
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,624	May 31	83	1343
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,625	May 31	83	1343
Brandauer & Co., C., Birmingham, England. Metallic pens .....	31,626	May 31	83	1343
Braun, Samuel J., Toledo, Ohio. Washing-powder .....	31,884	Aug. 16	84	1140
Brauss & Co., R., New York, N. Y. Bristles, wool, fur, hair, skins, and hides .....	31,747	June 28	83	1987



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No	Date.	Official Gazette.	
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Bray Clothing Company, Louisville, Ky. Pants, coats, vests, and overalls.....	31,485	Apr. 26	83	591
Brennan & White, New York, N. Y. Boots and shoes.....	31,335	Mar. 1	82	1413
Brennan & White, New York, N. Y. Boots and shoes.....	32,124	Nov. 8	85	932
Brennan & White, New York, N. Y. Boots and shoes.....	32,251	Dec. 20	85	1900
Brewster, Crittenden & Co., Rochester, N. Y. Certain named groceries.....	31,726	June 21	83	1799
Brigalant, Gaston, Barentin, France. Certain artificial leather goods.....	31,379	Mar. 8	82	1556
Bronson, Brown & Co., New York, N. Y. Tea.....	31,315	Feb. 22	82	1207
Brown & Besly, Incorporated, Chicago, Ill. Paper-files, desks, cabinets, and other receptacles for papers and documents.....	31,765	June 28	83	1990
Brown, David F., Denison, Iowa. Certain named medicinal compound.....	32,241	Dec. 13	85	1736
Brown & Harris, New Orleans, La. Lard.....	31,787	July 5	84	144
Brown, James F., Boston, Mass. Belting.....	32,155	Nov. 15	85	1075
Brown Medicine Co., Erie, Pa. Herb-tea.....	31,223	Feb. 8	82	891
Brown Medicine Co., Erie, Pa. Remedy for colds, throat affections, and internal and external pains.....	31,292	Feb. 22	82	1205
Brown, Millard F., Kansas City, Mo. Chests or bins.....	31,901	Aug. 23	84	1280
Brown Phosphate Company, Oakland, Cal. Celery-phosphate tonic.....	31,391	Mar. 8	82	1557
Brown, Sarah J., Baltimore, Md. Powders for the prevention and alleviation of diseases of horses, horned cattle, and swine.....	31,079	Jan. 4	82	181
Brown Tobacco Company, St. Louis, Mo. Plug, twist, smoking, and fine-cut tobacco.....	31,176	Jan. 25	82	594
Brown Tobacco Company, St. Louis, Mo. Plug, twist, smoking, and fine-cut tobacco.....	31,215	Feb. 8	82	890
Brown Tobacco Company, St. Louis, Mo. Plug, twist, smoking, and fine-cut tobacco.....	32,228	Dec. 13	85	1735
Buchheit, Charles R., Pittsburg, Pa. Certain medicine.....	32,088	Oct. 25	85	607
Buck, Harry K., Philadelphia, Pa. Perfumery, toilet water, and toilet powder.....	31,933	Sept. 6	84	1580
Buehler & Platt, Brooklyn, N. Y. Cycles, wheels, bicycle-hubs, and other parts.....	31,132	Jan. 11	82	335
Buescher Manufacturing Company, Elkhart, Ind. Band instruments.....	31,953	Sept. 6	84	1582
Buffington Light Company, New York, N. Y. Lamps wherein gas is generated from metallic carbids and charges of metallic carbids for use with such lamps.....	31,417	Mar. 8	82	1560
Burdett Organ Company, Freeport, Ill. Organs.....	31,072	Jan. 4	82	181
Burdett Organ Company, Freeport, Ill. Pianos, wind, string, and percussive musical instruments.....	31,197	Feb. 1	82	747
Bürgerliches Bräuhaus in Pilsen, Pilsen, Austria-Hungary. Beer.....	31,361	Mar. 1	82	1415
Burke, George H., Cleveland, Ohio. Headache cure or remedy.....	32,268	Dec. 20	85	1902
Burkhart, William S., Cincinnati, Ohio. Vegetable blood-purifier.....	31,225	Feb. 8	82	891
Burnett, Robert M., Southborough, Mass. Dairy products.....	32,075	Oct. 18	85	452
Burnett, Robert M., Southborough, Mass. Certain named pork products.....	32,076	Oct. 18	85	452
Burnett, William H. C., Detroit, Mich. Perfume for the bath.....	31,822	July 26	84	646
Burnett, William H. C., Detroit, Mich. Perfumes for the breath.....	32,292	Dec. 27	85	2089
Burnham & Co., New York, N. Y. Metal-polish.....	31,149	Jan. 18	82	459
Bush, Tobias, Washington, D. C. Whisky.....	31,362	Mar. 1	82	1415
Bussey & Son, Columbus, Ga. Guano.....	32,050	Oct. 11	85	286
Busy Bee Candy Kitchen Company, Columbus, Ohio. Candy.....	31,582	May 24	83	1204
Butler, Annie S., London, England. Powder-paper, being a preparation for the skin or toilet use.....	31,301	Feb. 22	82	1206
Butler Hard Rubber Company, Butler, N. J., and New York, N. Y. Embroidery-rings.....	31,143	Jan. 11	82	336
C. A. Brockett Cement Company, Kansas City, Mo. Plaster, plaster-of-paris, cement, cement-plaster, hydraulic cement, and analogous compositions and compounds.....	31,229	Feb. 8	82	891
C. B. Woodworth Sons Company, Rochester, N. Y. Sachet-powders and toilet soap.....	31,935	Sept. 6	84	1580
C. F. Blanke Tea and Coffee Company, St. Louis, Mo. Coffee.....	31,638	May 31	83	1344
C. F. Monroe Company, Meriden, Conn. Opal glassware.....	31,627	May 31	83	1343
Caldwell & Company, (Incorporated,) New York, N. Y. Remedy for diabetes.....	31,260	Feb. 15	82	1046
Calm, Edward, New York, N. Y. Certain named preservative compound.....	31,885	Aug. 16	84	1140
Camnitzer, A., New York, N. Y. Certain named topical remedy.....	32,217	Dec. 6	85	1582
Carpenter-Morton Company, Boston, Mass. Paints and varnishes for straw and ratan goods.....	31,983	Sept. 20	84	1866
Carrara Paint Company, Barberton, Ohio. Paint.....	32,029	Oct. 4	85	148
Carter's Ink Company, Boston, Mass. India-inks.....	31,111	Jan. 4	82	184
Central Chemical Company, New York, N. Y. Proprietary articles.....	31,502	May 3	83	741
Chaffard & Couderc, Salon, (Bouches-du-Rhône,) France. Olive-oil.....	31,270	Feb. 15	82	1047
Chaffard & Couderc, Salon, France. Olive-oil.....	32,201	Dec. 6	85	1581
Chaize, Jacques. (See Chaize, Nicolas and J.).....				
Chaize, Nicolas and J., St. Etienne, France. Leashes for loom-heddles.....	31,749	June 28	83	1988
Chambre Syndicale des Fabricants de Chapeaux de Paille et Feutre pour Dames et Fouritures pour Modes, Paris, France. Ladies' straw and felt hats.....	31,997	Sept. 27	84	2014
Champion Chemical Works, Chicago, Ill. Lye and potash.....	31,984	Sept. 20	84	1867
Chapman, John M., New York, N. Y. Salmon.....	31,913	Aug. 30	84	1431
Chemicals and Drugs Company of America, New York, N. Y. Sweetener.....	31,990	Sept. 20	84	1867
Chemische Fabrik auf Actien, vormals E. Schering, Berlin, Germany. Food preparations containing casein.....	31,390	Mar. 8	82	1557
Chemische Fabrik in Helfenberg bei Dresden, Eugen Dieterich, Helfenberg, Germany. Certain named pharmaceutical preparations.....	31,799	July 12	84	307
Chemische Fabrik Sulzbach Gesellschaft mit Beschränkter Haftung, Sulzbach, Germany. Certain remedy for diseases of the blood and infectious diseases.....	32,021	Oct. 4	85	147
Chemische Fabrik Sulzbach Gesellschaft mit Beschränkter Haftung, Sulzbach, Germany. Certain remedy for arthritis, rheumatism, and like diseases.....	32,022	Oct. 4	85	147
Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung, Radebeul, near Dresden, Germany. Sweetening compounds for industrial and domestic purposes.....	31,407	Mar. 8	82	1559
Cherry, William W., Baltimore, Md. Pharmaceutical preparation of salol in oil of gaultheria.....	31,296	Feb. 22	82	1205
Chester Kent & Company, Jersey City, N. J., and New York, N. Y. Proprietary remedies for external use and also for internal use as a tonic.....	31,226	Feb. 8	82	891
Chicago Athletic Association, Chicago, Ill. Havana cigars.....	31,633	May 31	83	1343
Chicago Chemical Works, Chicago, Ill. Photographic developing agents.....	32,164	Nov. 15	85	1076
Chicago Cottage Organ Company, Chicago, Ill. Pianos.....	31,428	Mar. 22	82	1817
Chicago Cottage Organ Company, Chicago, Ill. Pianos.....	31,429	Mar. 22	82	1817
Chicago Cottage Organ Company, Chicago, Ill. Reed-organs.....	31,430	Mar. 22	82	1817
Chicago Sewing Machine Company, Chicago, Ill. Household sewing-machines.....	31,129	Jan. 11	82	334
Choffé, Alexandre, Levallois-Perret, France. Medicinal wine.....	31,825	July 26	84	646
Clark Cycle Tire Company, Boston, Mass. Certain named bicycle-tires.....	31,767	June 28	83	1990
Clark-Jewell-Wells Company, Grand Rapids, Mich. Groceries.....	31,436	Mar. 22	82	1817
Clarks-Pyramid and Fairy Light Company, Limited, London, England. Lamps and candles.....	31,864	Aug. 9	84	980
Cleveland Faucet Company, Cleveland, Ohio. Fluid-pressure regulators having ball-bearing valves.....	32,195	Nov. 29	85	1396
Cleveland Twist Drill Co., Cleveland, Ohio. Twist-drills, reamers, taps, and the like.....	31,414	Mar. 8	82	1559
Cleveland Veterinary Remedy Co., Cleveland, Ohio. Tonic remedy.....	31,925	Aug. 30	84	1432
Cleveland, William B., Cleveland, Ohio. Commutator-bars.....	31,328	Feb. 22	82	1208
Clotworthy, William F., Baltimore, Md. Farinaceous compound used as a dessert.....	31,478	Apr. 19	83	442
Coburn Metallic Bed and Pneumatic Tube Mattress Company, Holyoke, Mass. Bedsteads made wholly or in part of metal.....	31,807	July 12	84	308



*Alphabetical list of registrants of trade-marks—Continued.*

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Cochrane Manufacturing Company, Malden, Mass. Calico-prints	31,162	Jan. 25	82	593
Cochrane Manufacturing Company, Malden, Mass. Calico-prints	31,163	Jan. 25	82	593
Coggeshall, George W., Boston, Mass. Chemical fertilizers	31,886	Aug. 16	84	1140
Cohen, Charles J., Philadelphia, Pa. Copying-books and copying paper	31,957	Sept. 13	84	1725
Columbus Bicycle Company, Columbus, Ohio. Bicycles	31,455	Apr. 5	83	154
Commercial Knitting Mills Company, Troy, N. Y. Ladies' pants	31,570	May 24	83	1203
Commercial Typewriter Company, New York, N. Y. Type-writing machines	31,764	June 28	83	1989
Commercial Typewriter Company, New York, N. Y. Type-writing machines	31,954	Sept. 6	84	1582
Commonwealth Manufacturing Co., Boston, Mass. Chemical solvents for gums and oils	31,150	Jan. 18	82	459
Cone, Sterling D., Chicago, Ill. Confected popcorn	31,211	Feb. 1	82	748
Connell, Horatio P., Philadelphia, Pa. Sterilized kumiss	31,125	Jan. 11	82	334
Consolidated Dental Manufacturing Company, New York, N. Y. Magazine devoted to the interests of the dental profession	31,341	Mar. 1	82	1414
Consolidated Kansas City Smelting and Refining Company, New York, N. Y., and Kansas City, Mo. Certain chemicals and metals	31,194	Feb. 1	82	746
Consolidated Milling Company, Minneapolis, Minn. Wheat-flour	31,690	June 14	83	1657
Consumers Company, Chicago, Ill. Distilled and carbonated waters	31,147	Jan. 18	82	459
Consumers Company, Chicago, Ill. Distilled and carbonated waters and compounds containing same	31,148	Jan. 18	82	459
Consumers Company, Chicago, Ill. Ginger-ale	31,804	July 12	84	308
Converse & Pike, Boston, Mass. Wool boots	31,100	Jan. 4	82	183
Cook, Charles C., Baltimore, Md. Certain named medicinal remedies	31,716	June 21	83	1798
Cook, John H., Red Bank, N. J. Pens	31,373	Mar. 8	82	1556
Court Perfumery Company, New York, N. Y. Soaps, perfumery, extracts, and face and tooth powders, excluding perfumed waters	31,936	Sept. 6	84	1580
Cowart, Justice & Co., Phosphoria, Fla. Medical preparation	31,224	Feb. 8	82	891
Coyle, James J., Pomona, Cal. Certain named medicinal remedies and preparations	32,166	Nov. 15	85	1076
Craig, John E. (See Tabor and Craig.)				
Craig-Reynolds Foundry Company, Dayton, Ohio. Acetylene-machines, gas table-lamps, gas portable lamps, gas carriage-lamps, gas bicycle-lamps, and gas fixtures and shades	31,157	Jan. 18	82	460
Cramer, Max, Boston, Mass. Tonics and restoratives	31,662	June 7	83	1509
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelopes	31,740	June 28	83	1987
Crawford & Co., Robert, Edinburgh and Leith, Scotland. Whisky	31,561	May 17	83	1065
Crescent Macaroni Company, Davenport, Iowa. Yeast-cakes	31,853	Aug. 9	84	979
Croft, Silas C., and K. F. Hall, New York, N. Y. Metal-polish	32,081	Oct. 18	85	452
Crolley, Harry W., Covington, Ky. Medical compound for the removal of hair from the skin and for skin, scalp, and hair affections	31,964	Sept. 13	84	1725
Cudahy Packing Company, South Omaha, Nebr., and Chicago, Ill. Soap powders	32,079	Oct. 18	85	452
Cuitoit Co., Chicago, Ill. Certain flavoring and toilet articles	31,934	Sept. 6	84	1580
Culter & Proctor Stove Company, Peoria, Ill. Air-tight wood-heaters	31,367	Mar. 1	82	1416
Curley & Co., E. J., Camp Nelson, Ky. Whisky	32,140	Nov. 8	85	933
Curtis & Cameron, Boston, Mass. Art photographs	31,617	May 31	83	1342
Curtis & Cameron, Boston, Mass. Art photographs	31,706	June 21	83	1797
Dadiriian, Markar G., New York, N. Y. Medicated tonic wines	31,637	May 31	83	1344
Daisy, Limited, Leeds, England. Medicinal powder for the cure of headache	31,160	Jan. 18	82	460
Daisy, Limited, Leeds, England. Medicinal powder for the cure of headache	32,269	Dec. 20	85	1902
Daisy, Limited, Leeds, England. Medicinal powder for the cure of headache	32,270	Dec. 20	85	1902
Daisy, Limited, Leeds, England. Medicinal powder for the cure of headache	32,271	Dec. 20	85	1902
Daniel Crawford & Son, Limited, Glasgow, Scotland. Whisky	31,560	May 17	83	1065
Davis Bros., St. Louis, Mo. Iced confections	31,722	June 21	83	1798
Davis Sewing Machine Company, Dayton, Ohio. Sewing-machines	31,703	June 14	83	1658
Davis Sewing Machine Company, Dayton, Ohio. Sewing-machines	32,016	Sept. 27	84	2016
Davis Sewing Machine Company, Dayton, Ohio. Sewing-machines	32,017	Sept. 27	84	2016
Davis, Wilbur H., Boston, Mass., and Toano, Va. Natural mineral water and carbonated beverages	31,581	May 24	83	1204
De Land Medical Company, Boston, Mass. Proprietary medicines for colds and kindred complaints	31,453	Apr. 5	83	154
De Tar, Monroe, Kinsley, Kans. Dyspepsia, catarrh, liver and kidney, pain and cough cure, pills, and liniment	31,987	Sept. 20	84	1867
De Zeeuw & Van Raait, Vlaardingen, Netherlands. Herring	32,108	Nov. 1	85	773
Debnam, George R., Baltimore, Md. Tablets and powders for certain named disorders	31,988	Sept. 20	84	1867
Deere & Webber Company, Minneapolis, Minn. Vehicle-springs	31,567	May 17	83	1066
Deere & Webber Company, Minneapolis, Minn. Light spring-vehicles ordinarily drawn by horses	31,809	July 12	84	308
Detroit Oak Belting Company, Detroit, Mich. Leather belting	31,486	Apr. 26	83	591
Devoe & Peck, New York, N. Y. Certain named dry goods	31,741	June 28	83	1987
Deyoung, Charles, Philadelphia, Pa. Dyspepsia-pads and pads for cure of disease by absorption	31,530	May 10	83	912
Diamond Match Company, Chicago, Ill. Matches	31,463	Apr. 12	83	293
Diamond Match Company, Chicago, Ill. Friction-matches	31,916	Aug. 30	84	1431
Diamond Match Company, Chicago, Ill.; Wilmington, Del.; Detroit, Mich., and Westville, Conn. Friction-matches	31,499	May 3	83	741
Diamond Rubber Company, Akron, Ohio. Certain named rubber goods	31,650	June 7	83	1508
Diamond Rubber Company, Akron, Ohio. Certain named rubber goods	31,651	June 7	83	1508
Diamond Rubber Company, Akron, Ohio. Certain named rubber goods	31,679	June 14	83	1656
Diamond Wine Company, Sandusky, Ohio. Champagne	31,383	Mar. 8	82	1557
Dickerman, Lewis C., South Royalton, Vt. Packing boxes or tubs	31,413	Mar. 8	82	1559
Dieter, Louis A., Baltimore, Md. Topical remedy for rheumatism and muscular pains	31,261	Feb. 15	82	1046
Dillemann, Fils & Co., Paris, France. Cutlery and cutting-tools	31,995	Sept. 20	84	1868
Dios Chemical Company, St. Louis, Mo. Certain named proprietary medicinal preparation	31,454	Apr. 5	83	154
Dobbs, Charles G., New York, N. Y. Cleansing fluid	32,302	Dec. 27	85	2089
Dodson-Braun Manufacturing Company, St. Louis, Mo. Certain named table-relish and table-sauce	31,314	Feb. 22	82	1207
Dodson-Braun Manufacturing Company, St. Louis, Mo. Preparation of mustard and horse-radish	31,554	May 17	83	1064
Donoghue, James, Cleveland, Ohio. Soft cleaners for wall-paper	31,748	June 28	83	1987
Dorn, Charles L., Malvern, Ark. Pile remedy	31,756	June 28	83	1988
Dougherty, William H., New York, N. Y. Sizing or finishing compounds	31,443	Mar. 29	82	1985
Dover, Charlotte C., Chicago, Ill. Medicine for certain named diseases	32,191	Nov. 29	85	1396
Dr. Koch Vegetable Tea Co., Winona, Minn. Certain named medicines	32,067	Oct. 18	85	451
Draper, Oscar M., North Attleborough, Mass., and New York, N. Y. Plated chains, bracelets, and similar chain ornaments	31,108	Jan. 4	82	184
Duhme Jewelry Company, Cincinnati, Ohio. Diamonds, precious stones, jewelry, silverware, gold ware, and plated ware	32,219	Dec. 13	85	1734
Dunbar, Anna E., Albany, N. Y. Waist-belts, shirt-waist holders, and skirt-supporters	31,868	Aug. 16	84	1139
Dunbar's Sons, G. W., New Orleans, La. Molasses	31,095	Jan. 4	82	183
Dunham Carrigan & Hayden Company, San Francisco, Cal. Axes, saws, and hatchets	31,700	June 14	83	1658
Dunlop Pneumatic Tyre Company, Limited, London, England. Pneumatic tires and fastening devices therefor	32,281	Dec. 20	85	1904



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Dunlop Pneumatic Tyre Company, Limited, London, England. Pneumatic tires and fastening devices therefor	32,282	Dec. 20	85	1904
Duquesne Distributing Co., Harmerville, Pa. Mineral waters	31,382	Mar. 8	82	1556
Durand, Huguenin & Cie., L., Basle, Switzerland. Certain named artificial perfume	32,163	Nov. 15	85	1076
Durkee & Co., E. R., New York, N. Y. Laundry starch	32,232	Dec. 13	85	1735
E. & A. H. Batcheller Company, North Brookfield and Boston, Mass. Elastic goring for Congress boots and shoes	32,253	Dec. 20	85	1900
E. C. De Witt & Company, Chicago, Ill. Dyspepsia cure	32,134	Nov. 8	85	933
E. C. Flaccus Company, Wheeling, W. Va. Catsups, mustard, and sauces	31,730	June 21	83	1799
E. O. Stanard Milling Company, St. Louis, Mo.; Alton, Ill., and Dallas, Tex. Wheat-flour	31,949	Sept. 6	84	1582
E. T. Smith Company, Worcester, Mass. Blended coffee, containing Java and Mocha	31,558	May 17	83	1065
E. W. Fisher Company, Cleveland, Ohio. Plumbers' fixtures	31,278	Feb. 15	82	1048
Eagle Lye Works, Milwaukee, Wis. Lye or potash	31,883	Aug. 16	84	1140
Eberding, Henry, New York, N. Y. Welding compound	31,476	Apr. 19	83	442
Eberhardt, Ulrich, Newark, N. J. Shaping-machines or so-called crank-planers	31,369	Mar. 1	82	1416
Eclipse Bicycle Company, Elmira, N. Y. Bicycles and like vehicles	31,201	Feb. 1	82	747
Eddystone Manufacturing Company, Philadelphia, Pa. Printed drapery fabric	31,647	June 7	83	1508
Edmonds, William, Providence, R. I. Remedy for chronic constipation, hepatic torpor, and jaundice	31,607	May 24	83	1206
Edmund, William O., Lumberton, N. C. Colic and lung-fever cure	31,532	May 10	83	913
Edwin H. Fidler Company, Philadelphia, Pa. Binder-twine	31,955	Sept. 6	84	1582
Eglington, Edward H., Walsall, England. Bits, spurs, stirrups, and harness-fittings	31,975	Sept. 13	84	1726
Egyptian Tobacco Company, New York, N. Y. Cigarettes	32,294	Dec. 27	85	2089
Egyptian Tobacco Company, New York, N. Y. Cigarettes	32,295	Dec. 27	85	2089
Ellis, Walter E., Edgewater, N. J. Medical compound for the cure of rheumatism	31,755	June 28	83	1988
Empire Cycle Company, Syracuse, N. Y. Bicycles, velocipedes, and their parts and attachments	31,427	Mar. 22	82	1817
Enterprise Coffee Company of Baltimore City, Baltimore, Md. Roasted coffee and roasted and ground coffee	31,639	May 31	83	1344
Enterprise Coffee Company of Baltimore City, Baltimore, Md. Roasted and ground coffee	31,640	May 31	83	1344
Enterprise Coffee Company of Baltimore City, Baltimore, Md. Roasted and ground coffee	31,692	June 14	83	1657
Enterprise Coffee Company of Baltimore City, Baltimore, Md. Coffee	31,721	June 21	83	1798
Erie Preserving Company, Buffalo, N. Y. Fruits and vegetables	31,824	July 26	84	646
Ermen, José A., Barquesimeto, Venezuela. Wheat-flour	31,170	Jan. 25	82	593
Ermen, José A., Barquesimeto, Venezuela. Wheat-flour	31,310	Feb. 22	82	1207
Ernst Tosetti Brewing Company, Chicago, Ill. Beer	31,384	Mar. 8	82	1537
Ernst, Wilhelm, Hanover, Germany. Hemorrhoidal suppositories	31,667	June 7	83	1509
Errearr, Frank, Jersey City, N. J. Cigars	31,202	Feb. 1	82	747
Esser & Barry, Providence, R. I. Certain named jewelry	32,119	Nov. 8	85	932
Eureka and Epicure Packing Company, Astoria, Oreg. Canned salmon	31,971	Sept. 13	84	1726
Eureka and Epicure Packing Company, Astoria, Oreg. Canned salmon	31,972	Sept. 13	84	1726
Eureka and Epicure Packing Company, Astoria, Oreg. Canned salmon	32,107	Nov. 1	85	773
Eureka Fire Hose Company, New York, N. Y. Hydraulic hose	32,058	Oct. 18	85	450
Eureka Fire Hose Company, New York, N. Y. Hydraulic hose	32,059	Oct. 18	85	450
Eureka Fire Hose Company, New York, N. Y. Hydraulic hose	32,060	Oct. 18	85	450
Eureka Fire Hose Company, New York, N. Y. Hydraulic hose	32,061	Oct. 18	85	450
Eureka Fire Hose Company, New York, N. Y. Hydraulic hose	32,062	Oct. 18	85	450
Eureka Fire Hose Company, New York, N. Y. Hydraulic hose	32,063	Oct. 18	85	450
Evans, John T., Cypress, Ky. Laundry and washing soap	31,401	Mar. 8	82	1558
Eves, Robert L., Nashville, Tenn. Syrup for use in soft drinks, as at soda-water fountains	31,317	Feb. 22	82	1207
Eves, Robert L., Nashville, Tenn. Lotion for the cure of venereal diseases	31,395	Mar. 8	82	1558
Evinghaus, Hermann, and M. Herbener, Barmen, Germany. Skirt-protectors	32,225	Dec. 13	85	1734
Exley, Watkins & Co., Wheeling, W. Va. Catchup, mustard, flavoring extracts, olives, pickles, and spices	31,126	Jan. 11	82	334
Explosivstoff-Werke Spirallit, Gesellschaft mit Beschränkter Haftung, Hamburg, Germany. Explosives and cartridges	31,673	June 7	83	1510
F. O. Pierce Company, New York, N. Y. Calcimine—a mixture of dry powder with water	31,630	May 31	83	1343
F. S. Webster Company, Boston, Mass.; New York, N. Y.; Chicago, Ill., and London, England. Certain named type-writers' supplies, note-books, copying-books, and copying-cloths	31,738	June 21	83	1800
F. W. Gesswein Company, New York, N. Y. Polishing-powder and abrading tools and implements made from same	31,306	Feb. 22	82	1206
Fabery, Robert, Boston, Mass. Medical compounds	31,297	Feb. 22	82	1205
Fabriques de Produits Chimiques de Thann & de Mulhouse, Thann, Germany. Cementitious or adhesive substances and puncture-closers	32,236	Dec. 13	85	1735
Farbenfabriken of Elberfeld Company, New York, N. Y. Dyestuffs	31,403	Mar. 8	82	1558
Farbenfabriken of Elberfeld Company, New York, N. Y. Intestinal astringents	31,527	May 10	83	912
Farbenfabriken of Elberfeld Company, New York, N. Y. Certain named chemical compounds	31,659	June 7	83	1509
Farbenfabriken of Elberfeld Company, New York, N. Y. Sedatives	31,836	Aug. 2	84	805
Farbenfabriken of Elberfeld Company, New York, N. Y. Antiseptics	31,837	Aug. 2	84	805
Farbenfabriken of Elberfeld Company, New York, N. Y. Dyestuffs	32,030	Oct. 4	85	148
Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Scientific food and iron preparation	31,386	Mar. 8	82	1557
Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Scientific food and weak astringent	31,387	Mar. 8	82	1557
Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Scientific food and weak astringent	31,388	Mar. 8	82	1557
Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Scientific food and iron preparation	31,389	Mar. 8	82	1557
Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Artificial fertilizer	31,409	Mar. 8	82	1559
Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Coloring-matter or dyestuffs and medical compounds	31,422	Mar. 15	82	1686
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dyestuffs applicable in coloring and printing processes	32,209	Dec. 6	85	1582
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Local anesthetic for ophthalmological purposes	32,210	Dec. 6	85	1582
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Albumin compound containing phosphorus	32,211	Dec. 6	85	1582
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Artificial dung	32,212	Dec. 6	85	1582
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Medicine for wounds	32,213	Dec. 6	85	1582
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for certain named diseases	32,214	Dec. 6	85	1582
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for a certain named disease	32,215	Dec. 6	85	1582
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for certain named diseases	32,216	Dec. 6	85	1582
Farnum, Mabel E., New York, N. Y. Liquid rouge	31,781	July 5	84	143



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Farr & Co., J. H., Toronto, Canada. Soft soap	31,915	Aug. 30	84	1431
Faulkner, Joseph, New York, N. Y. Certain named lubricants	31,939	Sept. 6	84	1581
Fay, Fred E., Los Angeles, Cal. Collars and cuffs	31,517	May 10	83	911
Fay, Fred E., Los Angeles, Cal. Ironing-machines	31,542	May 10	83	914
Fay, Patrick W., Brooklyn, N. Y. Kidney remedies	31,084	Jan. 4	82	182
Feder, Harry, New York, N. Y. Chewing-gum	31,491	Apr. 26	83	592
Firth-Sterling Steel Company, Pittsburg, Pa., New York, N. Y., and Boston, Mass. Steel or steel and iron combined	31,159	Jan. 18	82	460
Fisher, George B., Denver, Colo. Certain named medicinal liquid	31,817	July 19	84	506
Florence Machine Company, Northampton, Mass. Sewing-machines	31,820	July 19	84	506
Florence Manufacturing Company, Northampton, Mass., New York, N. Y., and Chicago, Ill. Brushes	31,862	Aug. 9	84	980
Flügger & Boecking, Hamburg, Germany. Oils for artists' paints, colors, and varnishes	32,146	Nov. 8	85	934
Foerderer, Robert H., Philadelphia, Pa. Light-weight leathers	31,980	Sept. 20	84	1866
Fournier & Knopf, Felix, New York, N. Y. Cyclometers	31,418	Mar. 8	82	1560
Fowler, Frank C., Moodus, Conn. Medical remedies for gout and rheumatism	32,133	Nov. 8	85	933
Fownes Brothers & Co., London, England. Gloves	32,121	Nov. 8	85	932
Frame, Edward A., Craig, Mo. Chewing-gum	31,942	Sept. 6	84	1581
Frank E. Morse Company, Newark, N. J., and New York, N. Y. Portland cement	31,687	June 14	83	1656
Frank E. Morse Company, Newark, N. J., and New York, N. Y. Portland cement	31,760	June 28	83	1989
Frank E. Morse Company, Newark, N. J., and New York, N. Y. Portland cement	31,761	June 28	83	1989
Fraser, Russell, New York, N. Y. Wire	31,371	Mar. 1	82	1416
Frederick Stearns & Company, Detroit, Mich. Perfumery	32,170	Nov. 22	85	1219
Frederiksen, Johan D., Little Falls, N. Y. Cream-soda, cream-ice, confection-tablets, and cocoa- rennet tablets	31,222	Feb. 8	82	891
Frederiksen, Johan D., Little Falls, N. Y. Remedies for indigestion, dyspepsia, and allied ail- ments	31,343	Mar. 1	82	1414
Freet, Pauline C., New York, N. Y. Fire-extinguishing chemical compound	32,207	Dec. 6	85	1582
Fries Bros., New York, N. Y. Certain named saccharine substances	31,790	July 5	84	144
Fry-Armstrong Co., Pittsburg, Pa. Medicinal preparation	31,262	Feb. 15	82	1046
Fuller, Andrew W. (See Beatty and Fuller.)				
Fuller, Frank, New York, N. Y. Cereal food	31,451	Mar. 29	82	1986
Fuqua Hardware Company, Limited, Baton Rouge, La. Certain named agricultural implements and hardware	31,605	May 24	83	1206
Gaffney, Harriet M., St. Louis, Mo. Salves	31,786	July 5	84	144
Gale Manufacturing Company, Albion, Mich. Plows and their parts	32,307	Dec. 27	85	2090
Gans, Ludwig W., Frankfort-on-the-Main, Germany. Certain named medical compounds	32,242	Dec. 13	85	1736
Garinger, Wilson R., Wilkes-Barre, Pa. Shoes	31,377	Mar. 8	82	1556
Gates, John A., Chicago, Ill. Medicine for the cure of scrofula and similar diseases	31,294	Feb. 22	82	1205
Gates, William H., Detroit, Mich. Scrub-brushes and horse-brushes	31,155	Jan. 18	82	460
Gebhardt, John B., Watertown, Wis. Stove-polish	32,267	Dec. 20	85	1902
Gem Chemical Co., Baltimore, Md. Liquid cement	31,408	Mar. 8	82	1559
Genesee Pure Food Company, Le Roy, N. Y. Substitutes for coffee made of grain	31,172	Jan. 25	82	594
George Culver, Limited, London, England, and Sydney, New South Wales. Pince-nez eyeglasses	31,828	Aug. 2	84	804
George M. Clark & Company, Chicago and Harvey, Ill. Gas, vapor, and oil stoves	31,274	Feb. 15	82	1047
German Medicine Company, Chicago, Ill. Proprietary medicines for certain named diseases	31,876	Aug. 16	84	1140
Gerolsteiner Sprudel W. Castendyck, Cologne, Germany. Mineral water	31,719	June 21	83	1798
Gerstle, Leopold, Chattanooga, Tenn. Certain named publications	31,516	May 10	83	911
Gerstle, Leopold, Chattanooga, Tenn. Certain named medical compounds	31,533	May 10	83	913
Geyler, Albert, Grand Island, Nebr. Medicated syrup for diseases of the lungs and throat	32,272	Dec. 20	85	1903
Gholstin, Louis, Atlanta, Ga. Beds and mattresses	32,057	Oct. 18	85	450
Gill Brothers & Co., Steubenville, Ohio. Chimneys, lantern-globes, and reflectors	31,841	Aug. 2	84	805
Gilling, Lillian M., Cincinnati, Ohio. External and internal preparations for the skin	32,289	Dec. 27	85	2088
Girouard, David, Spencer, Mass. Yeast	32,105	Nov. 1	85	773
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic gorings, cords, braids, and narrow webs	31,213	Feb. 8	82	890
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic gorings, cords, braids, and narrow webs	31,214	Feb. 8	82	890
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic goring, cords, braids, and narrow webs	31,888	Aug. 23	84	1279
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic goring, cords, braids, and narrow webs	31,889	Aug. 23	84	1279
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic goring, cords, braids, and narrow webs	31,890	Aug. 23	84	1279
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic goring, cords, braids, and narrow webs	31,891	Aug. 23	84	1279
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic goring, cords, braids, and narrow webs	31,892	Aug. 23	84	1279
Glendale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic goring, braids, and narrow webs	32,126	Nov. 8	85	932
Glidden Varnish Company, Cleveland, Ohio. Floor and wood finish	31,860	Aug. 9	84	980
Goddard & Sons, J. W., New York, N. Y. Linings	31,649	June 7	83	1508
Goebel & Wetterau, St. Louis, Mo. Roasted coffee	32,203	Dec. 6	85	1581
Goldberg Bros. & Co., New York, N. Y. Boys' outer clothing	31,456	Apr. 12	83	293
Goldstein, Philip, Newark, N. J. Leather shoe-laces or porpoise laces	31,103	Jan. 4	82	184
Goodhue, Harry M., Providence, R. I. Eye-tablets	31,877	Aug. 16	84	1140
Goodyear Rubber Company, New York and Buffalo, N. Y.; St. Louis and Kansas City, Mo.; Chi- cago, Ill.; Milwaukee, Wis.; Minneapolis and St. Paul, Minn.; San Francisco, Cal.; Portland, Oreg., and Washington, D. C. Rubber goods and articles made therefrom and waterproof oiled fabrics and articles made therefrom	31,929	Sept. 6	84	1580
Gould Gray Hair Remedy Co., Saginaw, Mich. Medicine for restoring gray hair to its natural color and for growing new hair	31,782	July 5	84	143
Graf, Robert R., Baltimore, Md. Refrigerating compounds	31,406	Mar. 8	82	1559
Graham Co., S. Grover, Newburg, N. Y. Remedies for dyspepsia and analogous ailments	31,393	Mar. 8	82	1557
Grand Rapids School Furniture Company, Grand Rapids, Mich. Carpet-sweepers	32,096	Oct. 25	85	608
Granite Pile Cure Co., Concord, N. H. Ointment for piles	31,117	Jan. 11	82	333
Granger & Gregg Brewing Company, Hudson, N. Y. Ale, beer, and porter	31,479	Apr. 19	83	442
Graton & Knight Manufacturing Company, Worcester and Boston, Mass.; Atlanta, Ga.; Chicago, Ill.; New York, N. Y.; Philadelphia, Pa.; and Portland, Oreg. Leather belting	31,435	Mar. 22	82	1817
Graydon, Thomas W., Cincinnati, Ohio. Remedy for obesity and disordered conditions allied therewith	31,394	Mar. 8	82	1558
Greef, Firm of F. W., Viersen, Germany. Umbrellas and umbrella-cloths	31,106	Jan. 4	82	184
Gregory & Co., Northampton, England. Lozenge for allaying thirst	32,005	Sept. 27	84	2015
Grempler, Francis W., New York, N. Y. Metal leaf	31,363	Mar. 1	82	1415
Griggs, Cooper & Co., St. Paul, Minn. Certain named groceries	31,881	Aug. 16	84	1140
Griggs, Cooper & Co., St. Paul, Minn. Sewing-machine and bicycle oil	32,032	Oct. 4	85	148



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Grosjean, Clarence W., New York, N. Y. Artificial fur with a body of knitted or woven fabric and fur on both faces	31,457	Apr. 12	83	293
Grote & Co., F., New York, N. Y. Certain named articles of ivory	32,128	Nov. 8	85	932
Grove Company, Salem, Ohio. Chewing-gum	31,880	Aug. 16	84	1140
Growney, Edward P. (See Hewitt and Growney.)				
Gruneberg, Frederick H., New Orleans, La. Candy	31,855	Aug. 9	84	979
Gugerty, Patrick, Waterford, N. Y. Fluid washing compound	31,189	Feb. 1	82	746
H. A. Christy & Company, Jackson, Mich. Saddles for bicycles	31,277	Feb. 15	82	1048
H. H. Babcock Company, Watertown, N. Y. Buggies, surreys, phaetons, and the like and their gears or parts	31,071	Jan. 4	82	181
H. L. Berry Company, Whitfield, Fla. Lumber	31,762	June 28	83	1989
H-O (Hornby's Oatmeal) Company, New York, N. Y. Cereal food products	31,555	May 17	83	1065
H-O (Hornby's Oatmeal) Company, New York, N. Y. Cereal food products	31,577	May 24	83	1204
Hafer, Bernetta, Los Angeles, Cal. Preparation for treating the scalp and promoting the growth of the hair	31,263	Feb. 15	82	1046
Hagan, John C., Manchester, Va. Leather and leather lacings	31,178	Feb. 1	82	745
Hage & Co., J. D., New York, N. Y. Sugar-syrup	31,693	June 14	83	1657
Haight, Henry B., New York, N. Y. Horseshoes	32,015	Sept. 27	84	2016
Håkansson, Per, Eslöf, Sweden. Antiseptic preparation	31,660	June 7	83	1509
Halbot & Lens, Bradford, England, and New York, N. Y. Cloth manufactured in whole or in part of cotton	31,104	Jan. 4	82	184
Hale & Kilburn Manufacturing Company, Philadelphia, Pa. Folding bedsteads	31,496	Apr. 26	83	592
Hall, George A., Portland, Me. Lamp chimneys and burners	32,156	Nov. 15	85	1075
Hall, Katherine F. (See Croft and Hall.)				
Hall & Munson Company, Bay Mills, Mich. Certain lumber-mill and log products	31,472	Apr. 19	83	441
Hall & Ruckel, New York, N. Y. Dentifrices	31,681	June 14	83	1656
Hallowell & Walker, Philadelphia, Pa. Water-heating furnace and cooking-range	32,084	Oct. 18	85	452
Ham, Charles B., Toledo, Ohio. Stomach, kidney, bowel, and genito-urinary medicines	31,083	Jan. 4	82	182
Hamburger & Company, New York, N. Y. Dolls	31,614	May 31	83	1342
Hammer Society, Tournay, Belgium. Portland cement	31,918	Aug. 30	84	1432
Hammer Society, Tournay, Belgium. Portland cement	31,919	Aug. 30	84	1432
Hammesfahr, Ernst, Foche, near Solingen, Germany. Iron, steel, and manufactures	32,082	Oct. 18	85	452
Hammond Typewriter Company, New York, N. Y. Type-writing machines, their parts and attachments	31,272	Feb. 15	82	1047
Hance Bros. & White, Philadelphia, Pa. Powdered chocolate	31,219	Feb. 8	82	890
Hance Bros. & White, Philadelphia, Pa. Flavoring compounds	31,348	Mar. 1	82	1414
Hance Bros. & White, Philadelphia, Pa. Remedies for indigestion, flatulency, and dyspepsia	32,004	Sept. 27	84	2015
Hance Bros. & White, Philadelphia, Pa. Medicinal preparations for certain named diseases	32,039	Oct. 11	85	285
Hance Bros. & White, Philadelphia, Pa. Medicinal preparations for certain named diseases	32,040	Oct. 11	85	285
Hance Bros. & White, Philadelphia, Pa. Remedy for febrile diseases	32,064	Oct. 18	85	451
Hance Bros. & White, Philadelphia, Pa. Remedy for certain named diseases of the nasal passages	32,065	Oct. 18	85	451
Hance Bros. & White, Philadelphia, Pa. Remedies for certain named diseases	32,176	Nov. 22	85	1220
Hance Bros. & White, Philadelphia, Pa. Remedies for the minor inflammatory diseases of the eye	32,286	Dec. 27	85	2088
Handy Pin Company, New York, N. Y. Pins	31,708	June 21	83	1797
Hanna Paint Manufacturing Company, Columbus, Ohio. Paint	32,147	Nov. 8	85	934
Hannan Bros., Wheeling, W. Va. Cigars	31,850	Aug. 9	84	979
Hansen, Gustav W., Giddendorf, Germany. Substances for rendering leather waterproof	31,440	Mar. 22	82	1818
Hardtmuth, L. & C., Vienna and Budweis, Austria-Hungary, and London, England. Certain named stationery articles and materials for artists and draftsmen	31,572	May 24	83	1203
Hardtmuth, L. & C., Vienna and Budweis, Austria-Hungary, and London, England. Lead-pencils	32,221	Dec. 13	85	1734
Hartford Cycle Company, Hartford, Conn. Bicycles, velocipedes, and like vehicles	31,158	Jan. 18	82	460
Harvey Steel Company, Newark, N. J., and New York, N. Y. Supercarburized steel articles made under registrant's process	31,565	May 17	83	1066
Harvey, William E., Lock Haven, Pa. Chemical tree and plant fertilizer and insect-destroyer	31,187	Feb. 1	82	746
Hatch, David P., Los Angeles, Cal. Books, pamphlets, and leaflets	31,545	May 17	83	1064
Hatch, George C., Bridgeport, Conn. All kinds of cutlery	31,275	Feb. 15	82	1048
Hauff, Firm of J., Feuerbach, Germany. Photographic developers	31,235	Feb. 8	82	892
Hauff, Firm of J., Feuerbach, Germany. Photographic developers	31,236	Feb. 8	82	892
Hauthaway & Sons, C. L., Boston, Mass. Liquid blacking for boots and shoes	31,597	May 24	83	1205
Hay, Estate of Henry H., Portland, Me. Vegetable bitters for biliousness and jaundice	31,898	Aug. 23	84	1280
Hazeltine & Perkins Drug Company, Grand Rapids, Mich. Internal remedy for the diseases of women	31,783	July 5	84	143
Heid & Co., Frank P., Philadelphia, Pa. Cloth hats, caps, and children's headwear	31,255	Feb. 15	82	1046
Heid & Co., Frank P., Philadelphia, Pa. Cloth hats, caps, and children's headwear	31,256	Feb. 15	82	1046
Heinn Specialty Company, Milwaukee, Wis. Photographic albums, photographic portfolios, and cases for preserving films	31,338	Mar. 1	82	1413
Heller & Merz Company, New York, N. Y. Wash-blue	31,309	Feb. 22	82	1206
Heller & Merz Company, New York, N. Y. Ultramarine-blue	31,404	Mar. 8	82	1558
Hemmerdinger, John H., New York, N. Y. Razor-strops	31,154	Jan. 18	82	460
Hendee, George M., Springfield, Mass. Safety-bicycles and their component parts	31,644	May 31	83	1344
Hensel, Otto A., Pittsburg, Pa. Cure and preventive for venereal diseases	31,184	Feb. 1	82	745
Henze, Charles F., New York, N. Y. Cleaning preparation for carpets and fabrics	31,190	Feb. 1	82	746
Herbener, Max. (See Evinghaus and Herbener.)				
Herbst Brothers, New York, N. Y. Flour	32,093	Oct. 25	85	607
Herbst Brothers, New York, N. Y. Flour	32,094	Oct. 25	85	608
Herman Zöhr laut Leather Company, Milwaukee, Wis., and Boston, Mass. Certain named shoe-leather	31,745	June 28	83	1987
Herman Zöhr laut Leather Company, Milwaukee, Wis., and Boston, Mass. Chrome-tanned shoe-leather in black	31,746	June 28	83	1987
Hermanos Sucesores, Capdevila, Vera Cruz, Mexico. Cigars	32,293	Dec. 27	85	2089
Herrick & Son, A. H., Watertown, N. Y. Cereal products	31,208	Feb. 1	82	748
Herriott Bros. & Co., St. Louis, Mo. Shoe-dressing	31,305	Feb. 22	82	1206
Hershey Chocolate Co., Lancaster, Pa. Chocolate	31,124	Jan. 11	82	334
Herzfelder & Fröhlich, Vienna, Austria-Hungary. Matches made of pasteboard	32,296	Dec. 27	85	2089
Hetherington, John E., Cherry Valley, N. Y. Honey and wax	31,218	Feb. 8	82	890
Hewitt, Lewis H., and E. P. Growney, Buffalo, N. Y. Coffee substitutes	31,093	Jan. 4	82	183
Hexter & Scheuer, Cleveland, Ohio. Woolen fabrics for clothing	31,908	Aug. 30	84	1431
Hezel Milling Company, East St. Louis, Ill., and St. Louis, Mo. Flour	32,095	Oct. 25	85	608
Hickok, Franklin K., New Haven, Conn. Certain named articles of ladies' wear	31,609	May 31	83	1342
Hicks, John T., Boston, Mass. Certain paper goods for hotel checking systems	31,653	June 7	83	1508
Highland Electro Chemical Manufacturing Co., Connellsville, Pa. Soldering compound	31,307	Feb. 22	82	1206
Hildreth, Herbert L., Boston, Mass. Candy	31,537	May 10	83	913
Hill, Basil, Pittsburg, Pa. Compound for the cure of dyspepsia	31,553	May 17	83	1064



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Hillman, William, Coventry, England. Golf-balls and golf-clubs .....	31,771	July 5	84	142
Hoffman & Co., Red Hoop, N. Y. Chewing and smoking tobacco .....	31,991	Sept. 20	84	1867
Hoffmann-La Roche & Co., F., Basle, Switzerland. Certain antiseptic remedy .....	31,922	Aug. 30	84	1432
Hoffnung & Co., S., New York, N. Y. Illuminating-oil .....	31,668	June 7	83	1509
Holahan, William M., Cambridge, Mass. Bicycles .....	31,866	Aug. 9	84	980
Hollingsworth, Guy and W., Sullivan, Ill. Remedies for the cure of venereal diseases .....	31,166	Jan. 25	82	593
Hollingsworth, Wade. (See Hollingsworth, Guy and W.) .....				
Hollis, Thomas, Boston, Mass. Powder for cleaning and polishing the teeth .....	31,962	Sept. 13	84	1725
Holloway, Ward B., Boston, Mass. Beer, lager-beer, ale, and porter .....	31,203	Feb. 1	82	747
Holloway, Ward B., Boston, Mass. Beer, lager-beer, ale, and porter .....	31,268	Feb. 15	82	1047
Holly Silicate Slate Company, New York, N. Y. Artificial slates, blackboards, and tablets .....	32,129	Nov. 8	85	932
Holzappel's Compositions Company, Limited, Newcastle-upon-Tyne, England, and New York, N. Y. Antifouling paint for ships' bottoms .....	31,551	May 17	83	1064
Holzman Bros., New York, N. Y. All-tobacco cigarettes .....	31,077	Jan. 4	82	181
Homman, W. Forrest, Colorado Springs, Colo. Puzzle .....	31,238	Feb. 8	82	892
Hood, Charles I., Lowell, Mass. Antiseptic medicated soap .....	31,759	June 28	83	1989
Hood Rubber Company, Boston, Mass. India-rubber products .....	31,615	May 31	83	1342
Hood Rubber Company, Boston, Mass. India-rubber products .....	31,616	May 31	83	1342
Hook & Co., J. N., Cincinnati, Ohio. Sewing-machines and attachments .....	32,186	Nov. 22	85	1220
Hopkins, Robert G., Boston, Mass. Type-writing machines and named supplies .....	31,701	June 14	83	1658
Hopkins, Stanaforth T., New Orleans, La. Candy .....	31,723	June 21	83	1798
Horton Cato Manufacturing Company, Detroit, Mich. Certain named liquid condiments .....	32,297	Dec. 27	85	2089
Hubinger, Jacob J., New Haven, Conn. Starch .....	31,536	May 10	83	913
Hudnut, Richard, New York, N. Y. Perfumes, extracts, toilet waters, and sachets .....	32,188	Nov. 29	85	1396
Hudson, Elizabeth H., Rochester, N. Y. Remedy for rheumatism .....	32,114	Nov. 1	85	774
Hume, Ellen C. P., Chicago, Ill. Trimmed hats and bonnets .....	31,257	Feb. 15	82	1046
Humphrey, Henry M., Plainfield, N. J., and New York, N. Y. Tea and coffee .....	32,141	Nov. 8	85	933
Humphrey, James L., Jr., New Bedford, Mass. Butter, milk, cheese, and cream .....	31,852	Aug. 9	84	979
Hunnicutt, Joseph M., Atlanta, Ga. Cure for rheumatism .....	32,025	Oct. 4	85	147
Hurley & Cashman, Lynn, Mass. Boots and shoes .....	31,744	June 28	83	1987
Hurley & Cashman, Lynn, Mass. Boots and shoes .....	31,811	July 19	84	505
Hyde Manufacturing Company, Southbridge, Mass. Knives, spoons, shaves, and shoe-tools .....	32,034	Oct. 4	85	148
Hygienic Manufacturing Co., Ashaway, R. I. Certain named ladies' hygienic goods .....	31,289	Feb. 22	82	1205
Imperial Pharmacal Company, Philadelphia, Pa. Headache and neuralgia tablets .....	32,113	Nov. 1	85	774
India Rubber and Gutta Percha Insulating Company, Yonkers, N. Y. Insulated conductors .....	31,134	Jan. 11	82	335
Indiana Paper Company, Indianapolis and South Bend, Ind. Paper bags .....	31,342	Mar. 1	82	1414
Independent Brewing Association, Chicago, Ill. Lager-beer .....	31,792	July 5	84	144
Inland Oil Company, Cincinnati, Ohio. Lubricating-grease .....	31,231	Feb. 8	82	891
International Goodyear Shoe Machinery Company, Portland, Me., and Boston, Mass. Machinery for manufacturing boots and shoes .....	31,198	Feb. 1	82	747
International Goodyear Shoe Machinery Company, Portland, Me., and Boston, Mass. Boots and shoes .....	31,378	Mar. 8	82	1556
J. B. & G. W. McFatrach, Chicago, Ill. External eye remedies .....	32,189	Nov. 29	85	1396
J. C. Henderson Machine Motor and Manufacturing Company, New York, N. Y. Sauces for meats .....	32,028	Oct. 4	85	148
J. C. Schnoter Company, New York, N. Y. Certain named surgical and medical appliances .....	32,276	Dec. 20	85	1903
J. G. Brandt Shoe Company, St. Louis, Mo. Shoes .....	32,054	Oct. 18	85	450
J. H. Zeilin & Company, Incorporated, Philadelphia, Pa. Medicinal preparation .....	31,228	Feb. 8	82	891
J. I. Case Threshing Machine Co., Racine, Wis. Engines and threshing machinery .....	31,677	June 7	83	1510
J. L. Hopkins & Company, New York, N. Y. Medicinal herbs .....	32,069	Oct. 18	85	451
J. P. Dieter Company, Chicago, Ill. Baking-powder .....	32,092	Oct. 25	85	607
J. W. Teasdale & Company, St. Louis, Mo. Dried fruits .....	31,096	Jan. 4	82	183
Jachiet, Louis, Paris, France. Thread for sewing and for making lace .....	32,154	Nov. 15	85	1075
Jackson, Samuel R., Hot Springs, Ark. Medicaments for the skin .....	32,167	Nov. 15	85	1076
Jackson, Thomas A., Atlanta, Ga. Cotton lint and cotton-seed .....	31,290	Feb. 22	82	1205
Jacob Dold Packing Company, Buffalo, N. Y.; Kansas City, Mo.; Wichita, Kans.; Harrisburg, Pa., and Liverpool, England. Hams, bacon, shoulders, and canned, cured, and smoked meats .....	31,914	Aug. 30	84	1431
Jacobs, Whitcomb & Co., Boston, Mass. Fire-crackers .....	32,072	Oct. 18	85	451
Jaeger & Co., Philipp, Chicago, Ill. Certain named canned goods and foods and relishes .....	32,173	Nov. 22	85	1219
Jefferis Glass Works, Fairton, N. J., and Philadelphia, Pa. Bottles .....	31,539	May 10	83	913
Jefferson, Charles W., Louisville, Ky. Bourbon whisky .....	31,992	Sept. 20	84	1867
Jenkins, Silas H., New York, N. Y. Syringes .....	31,239	Feb. 8	82	892
Jenkinson, Richard C., Newark, N. J. Certain named bicycle sundries .....	31,902	Aug. 23	84	1280
Jerome, Charles C., Chicago, Ill. Medicinal preparation in the form of a flour for certain disorders .....	31,923	Aug. 30	84	1432
Jewell Nursery Company, Lake City, Mich. Plum-trees, scions of plum-trees, and plums .....	31,471	Apr. 19	83	441
Johns, Alexander N., Burlington, Vt. Glove and mitten fasteners .....	31,177	Feb. 1	82	745
Johnson & Baillie, Millersburg and Halifax, Pa. Children's, misses', women's, and men's shoes and slippers .....	31,101	Jan. 4	82	183
Johnson & Lund, Philadelphia, Pa. Artificial enamel .....	31,352	Mar. 1	82	1415
Johnson, Mary E., Fitchburg, Mass. Bicycles and similar vehicles .....	31,514	May 3	83	742
Johnson, Matthew J., Superior, Wis. Certain rheumatism cure and blood-purifier .....	31,951	Sept. 6	84	1582
Johnston, Holloway & Co., Philadelphia, Pa. Medicated ointment for the skin .....	31,534	May 10	83	913
Johnston, Holloway & Co., Philadelphia, Pa. Bitters .....	31,583	May 24	83	1204
Johnston, Holloway & Co., Philadelphia, Pa. Medicated confections, a worm specific .....	31,584	May 24	83	1204
Johnston, Holloway & Co., Philadelphia, Pa. Toilet soap .....	31,593	May 24	83	1205
Johnston Optical Co., Detroit, Mich. Certain named optical goods .....	32,103	Nov. 1	85	773
Jones, Jennie E., Boston, Mass. Hair-tonic .....	31,798	July 12	84	307
Jones, John T. (See Jones, Kornegay, and Mayhew.) .....				
Jones, Merriman M. and J. T., M. M. Kornegay, and A. L. Mayhew, Jonesborough, Tex. Washing compounds .....	31,779	July 5	84	143
Jones, V. K. & A. H., Lynn, Mass. Shoes .....	31,469	Apr. 19	83	441
Jordan, Marsh & Co., Boston, Mass. Corset-clasps, dress-shields, machine silk and threads, hooks and eyes, dress-stays, and hose-supporters .....	31,470	Apr. 19	83	441
Joseph Crosfield & Sons, Limited, Warrington, England. Soap, perfumery, and toilet preparations for the teeth, skin, and hair .....	31,592	May 24	83	1205
Kahn-Miller Drug Company, Baltimore, Md. Preparations for the skin .....	31,076	Jan. 4	82	181
Kaiser, John, New York, N. Y. Horns used in connection with sound-producing devices .....	31,772	July 5	84	142
Kalle & Co., Biebrich, Germany. Cure for consumption .....	32,177	Nov. 22	85	1220
Kalle & Co., Biebrich, Germany. Cure for consumption .....	32,178	Nov. 22	85	1220
Kalle & Co., Biebrich, Germany. Cure for consumption .....	32,287	Dec. 27	85	2088
Kansas City Roofing and Corrugating Company, Kansas City, Mo. Roof-paint .....	31,777	July 5	84	143
Keever Starch Company, Columbus, Ohio. Laundry starch .....	32,078	Oct. 18	85	452
Kehlor, James B. M., St. Louis, Mo. Wheat-flour .....	31,349	Mar. 1	82	1414
Kellam, Tilton & Co., Lynn, Mass. Boots and shoes .....	32,252	Dec. 20	85	1900
Kelley-Goodfellow Shoe Company, St. Louis, Mo. Boots and shoes .....	31,336	Mar. 1	82	1413



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Kellogg, Spencer, Buffalo, N. Y. Oil-cake and oil-meal	31,351	Mar. 1	82	1415
Keratol Company, Newark, N. J. Textile material with flexible waterproof coating	31,907	Aug. 30	84	1431
Ketzeback & Co., W. H., Mapleton, Minn. Wheat-flour	31,556	May 17	83	1065
Keystone Leather Company, Philadelphia, Pa. Glazed kid	31,161	Jan. 25	82	593
Killian, Lawrence J., Boston, Mass. Certain named cocktails	32,229	Dec. 13	85	1735
Kineavy, Robert F. (See Woelfel and Kineavy.)				
King Powder Company, Cincinnati, Ohio. Gun, ordnance, and blasting powder	31,138	Jan. 11	82	335
Kipp, John M., Fair Lawn, N. J. Milk	31,173	Jan. 25	82	594
Kirschbaum & Co., Ab., Philadelphia, Pa. Men's, boys', and children's clothing	31,911	Aug. 30	84	1431
Kish, Estate of Charles A., Chester, Pa. Certain named proprietary medicines	32,137	Nov. 8	85	933
Kitson, Arthur, Philadelphia, Pa. Kerosene-oil	32,305	Dec. 27	85	2090
Klopsch, Osmar, New York, N. Y. Remedy for skin diseases	31,800	July 12	84	307
Knoll & Co., Ludwigshafen, Germany. Antiseptic and remedy for skin diseases, tuberculosis, chlorosis, diseases of women, intestinal catarrh, and bronchial asthma	31,114	Jan. 11	82	333
Knoll & Co., Ludwigshafen, Germany. Chemical compound used as an antiseptic	31,186	Feb. 1	82	746
Knox, Edward M., New York, N. Y., and London, England. Hats and caps	31,332	Mar. 1	82	1413
Koch & Reis, Antwerp, Belgium. Sulfur	31,897	Aug. 23	84	1279
Kora Company, New York, N. Y. Dress-shields	31,959	Sept. 13	84	1725
Kornegay, Make M. (See Jones, Kornegay, and Mayhew.)				
Kranz, John, Chicago, Ill. Certain named confectionery	32,171	Nov. 22	85	1219
Kuh, Emanuel S., New York, N. Y. Grease for the manufacture of soap and candles	31,937	Sept. 6	84	1580
Kunhardt & Co., New York, N. Y. Wheat-flour	31,350	Mar. 1	82	1414
Kunhardt & Co., New York, N. Y. Green coffee	32,261	Dec. 20	85	1901
Kunhardt & Co., New York, N. Y. Green coffee	32,262	Dec. 20	85	1901
Kurtz, Stuboeck & Co., New York, N. Y. Straw hats	31,287	Feb. 22	82	1204
Kuyper & Son, John de, Rotterdam, Netherlands. Gin	31,816	July 19	84	505
La Industrial, Merida, Mexico, and New York, N. Y. Ropes, cords, twines, threads, bagging, and carpets or floor-coverings	31,613	July 19	84	505
La Mont, Charles F., St. Louis, Mo., and Seattle, Wash. Preserved, prepared, or desiccated egg-meat	31,449	Mar. 29	82	1986
La Société Chimique des Usines du Rhône, Anciennement Gilliard P. Monnet et Cartier, Lyons, France. Perfumes and devices for holding and atomizing perfumes	31,303	Feb. 22	82	1206
La Société Chimique des Usines du Rhône, Anciennement Gilliard P. Monnet et Cartier, Lyons, France. Perfumes and devices for holding and atomizing perfumes	31,304	Feb. 22	82	1206
La Société Chimique des Usines du Rhône, Anciennement Gilliard P. Monnet et Cartier, Lyons, France. Certain named apparatus and supplies	31,699	June 14	83	1657
La Société Chimique des Usines du Rhône, Anciennement Gilliard P. Monnet et Cartier, Lyons, France. Chemical substances for use in medicine and pharmacy	32,138	Nov. 8	85	933
Laboratoires Sauter, Société Anonyme, Geneva and Charmilles, Switzerland. Preparation for sterilizing water	32,180	Nov. 22	85	1220
Ladd & Coffin, New York, N. Y. Soaps, cosmetics, salves, and lotions for the skin	31,501	May 3	83	741
Lamar & Rankin Drug Company, Atlanta, Ga. Horse and cattle powders	31,259	Feb. 15	82	1046
Lamar & Rankin Drug Company, Atlanta, Ga. Dressing for ladies' and children's shoes and boots	31,266	Feb. 15	82	1047
Lanahan & Son, William, Baltimore, Md. Whisky	31,385	Mar. 8	82	1557
Landell, Edwin A., Jr., Philadelphia, Pa. Chamois leather and other finished leathers	31,468	Apr. 19	83	441
Landers, Frary & Clark, New Britain, Conn. Rotary meat and vegetable cutters	31,452	Mar. 29	82	1986
Landesmann, Max, and S. Weinberger, New York, N. Y. Ointment	31,598	Mar. 8	82	1558
Larkin, Peter C., Toronto, Canada. Tea	31,900	Aug. 23	84	1280
Larkin Soap Manufacturing Company, Charleston, W. Va., and Buffalo, N. Y. Soap	31,985	Sept. 20	84	1867
Larkin Sons, Ellsworth, Kans. Wheat-flour	31,217	Feb. 8	82	890
Laukota, John, Chattanooga, Tenn. Powdered dessert-jelly, powdered gelatin, gelatins, flavoring powders and extracts, and mustard salad-dressing	31,145	Jan. 18	82	459
Law, Russell & Co., Bradford, England. Woolen piece goods and garments	31,648	June 7	83	1508
Lay Whip Company, Westfield, Mass. Fine driving-whips	31,814	July 19	84	505
"Le Ripolin." (Société Anonyme Française de Peintures Laquées et d'Enduits Sous-Marins, Procédés Lefranc & Briegleb Réunis.) Paris, France, and Amsterdam, Netherlands. Color and varnish	32,042	Oct. 11	85	285
"Le Ripolin." (Société Anonyme Française de Peintures Lequées et d'Enduits Sous-Marins, Procédés Lefranc & Briegleb Réunis.) Paris, France, and Amsterdam, Netherlands. Color and varnish	32,043	Oct. 11	85	285
Ledermann & Co., M., Berlin, Germany. Remedies for diseases of the stomach and bowels	31,082	Jan. 4	82	182
Lefingwell Company, Chicago, Ill. Medicated pellets to operate upon the human liver	31,293	Feb. 22	82	1205
Leggett & Co., Francis H., New York, N. Y. Certain named groceries	31,725	June 21	83	1799
Lehigh Portland Cement Company, Ormrod and Allentown, Pa. Portland cement	32,183	Nov. 22	85	1220
Lever Brothers, Limited, Port Sunlight, England. Fancy and perfumed soaps, perfumery, mouth-washes, tooth-washes, tooth pastes and powders, toilet powders, hair-pomades, and other oils and greases for toilet use	31,073	Jan. 4	82	181
Levering & Co., E., Baltimore, Md. Coffee	31,944	Sept. 6	84	1581
Levy, Ernest & Herman, New York, N. Y. Ribbons	31,331	Mar. 1	82	1413
Levy, Ernest & Herman, New York, N. Y. Ribbons	31,547	May 17	83	1064
Lexington Roller Mills Company, Lexington, Ky. Cornmeal and flour	32,073	Oct. 18	85	451
Lieber, Hugo, New York, N. Y. Chocolate paste	32,161	Nov. 15	85	1075
Liebig, Franz X., New York, N. Y. Medicinal tonics	31,967	Sept. 13	84	1726
Ligneau, Charles, Paris, France. Vegetable acids	31,632	May 31	83	1343
Lindemann, Ottocar, Wernigerode, Germany. Milk measuring and registering apparatus and charts therefor	31,851	Aug. 9	84	979
Linden, John, Cleveland, Ohio. Certain named medical preparation	31,713	June 21	83	1797
Lindenmeyer & Sons, Henry, New York, N. Y. Paper	31,483	Apr. 26	83	591
Lindsey & Co., H. C., Cincinnati, Ohio. Washing-powder	31,629	May 31	83	1343
Little & Co., A. E., Lynn, Mass. Dressing for leather	31,353	Mar. 1	82	1415
Little & Co., A. E., Lynn, Mass. Overshoes	31,912	Aug. 30	84	1431
Little & Co., A. E., Lynn, Mass. Boots and shoes	32,100	Nov. 1	85	773
Loeser & Co., Frederick, New York, N. Y. Men's and women's gloves	32,249	Dec. 20	85	1900
Loftus, William C., New York, N. Y. Coats, vests, trousers, and overcoats	31,374	Mar. 8	82	1556
London Needle Company, New York, N. Y. Needles	32,277	Dec. 20	85	1903
Loudon & Johnson, New York, N. Y. Tea	31,671	June 7	83	1510
Lucas & Sampson, New York, N. Y. Paints	31,489	Apr. 26	83	592
Lueders & Co., George, New York, N. Y., and Chicago, Ill. Olive-oil, essential oils, salad-oils, and seed-oil	31,831	Aug. 2	84	804
M. H. Alexander Company, Cincinnati, Ohio. Sugar, sorghum, molasses, and syrup	31,946	Sept. 6	84	1581
M. K. Goetz Brewing Company, St. Joseph, Mo. Malt extract	31,269	Feb. 15	82	1047
Macdonald, Norman J., Somerville, Mass. Medicinal beverage	32,070	Oct. 18	85	451
Maine Manufacturing Co., Nashua, N. H. Refrigerators	31,826	July 26	84	646
Maire, August E., Minneapolis, Minn. Paints and surface-coatings	31,778	July 5	84	143



*Alphabetical list of registrants of trade-marks—Continued.*

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Majert & Ebers, Gesellschaft mit Beschränkter Haftung, Grünau, Germany. Pharmaceutical product, prepared from milk, used as medicine	31,475	Apr. 19	83	441
Majert, Emil, New York, N. Y. Surgical bandages and bedding	31,445	Mar. 29	82	1985
Majert, Wilhelm, Berlin, Germany. Electrical accumulators	31,199	Feb. 1	82	747
Maltbie Chemical Company, Buffalo, N. Y. Medicinal mixture to aid digestion	31,896	Aug. 23	84	1279
Malz, Charles, Philadelphia, Pa. Remedies for rheumatism	32,115	Nov. 1	85	774
Manning, William H., Kansas City, Mo. Metal-polish	32,089	Oct. 25	85	607
Marangolo, Henry, New York, N. Y. Compound for the treatment of glass	31,191	Feb. 1	82	746
Marchal, Walter E. F., St. Mandé, France. Covers for bicycle and other transmission chains	31,606	May 24	83	1206
Marquart, Firm of Dr. L. C., Beuel, Germany. Unguent for skin diseases	32,086	Oct. 25	85	607
Marsh Oil Company, Kansas City, Mo. Castor-oil	31,801	July 12	84	307
Marsh & Son, M., Wheeling, W. Va. Cigars	32,256	Dec. 20	85	1900
Marshall, McEwen & Co., Glasgow, Scotland. Whisky	31,717	June 21	83	1798
Martellin Gesellschaft mit Beschränkter Haftung, Leipsic, Germany. Certain artificial fertilizers	32,148	Nov. 8	85	934
Martellin Gesellschaft mit Beschränkter Haftung, Leipsic, Germany. Certain artificial fertilizers	32,149	Nov. 8	85	934
Martin, Nancy V., Colchester, Ill. Hair-invigorator	32,290	Dec. 27	85	2088
Martin, Nicholas, Chicago, Ill. Coffee	31,381	Mar. 8	82	1556
Martinez, William J., New Orleans, La. Men's and women's shoes	31,611	May 31	83	1342
Mason, Frédéric S., New York, N. Y. Liniments	31,264	Feb. 15	82	1046
Matchless Metal Polish Company, Chicago, Ill., and New York, N. Y. Powdered polish for metal	32,165	Nov. 15	85	1076
Matchless Mineral Water Company, Dallas, Tex. Certain named medicinal mineral water	31,834	Aug. 2	84	804
Mather, Gordon M., Canton, Ohio. Vehicle-axles and trimmings	31,419	Mar. 8	82	1560
Matthews & Co., J. W., Newburg, N. Y. Certain canned and boxed goods	31,724	June 21	83	1798
Matthews, Hugh W., Chicago, Ill. Extracts of witch-hazel	31,265	Feb. 15	82	1047
Max Huncke Chemical Company, Bridgeport, Conn., and New York, N. Y. Embalming fluid	31,838	Aug. 2	84	805
Mayhew, Aaron L. (See Jones, Kornegay, and Mayhew.)				
Maynard, Harry, Washington, D. C. Certain named articles of celluloid or imitation tortoise-shell	31,109	Jan. 4	82	184
McArthur & Winston Bros., Memphis, Tenn. Chill-cure	31,424	Mar. 15	82	1686
McCaw, Stevenson & Orr, Limited, Belfast, Ireland. Cement for uniting various materials and articles	31,522	May 10	83	911
McClain, Edward L., Greenfield, Ohio. Sweat-pads	32,169	Nov. 22	85	1219
McClure, Sleeth & Wright, Pittsburg, Pa. Clasps, buckles, braces, straps, tapes, ribbons, webbing, and belts	31,432	Mar. 22	82	1817
McElroy, John S., Des Moines, Iowa. Catarrh remedy	32,066	Oct. 18	85	451
McEwen, Clarence S., Columbus, Ohio. Liquid cough medicine	31,529	May 10	83	912
McGale, Bernard E., Montreal, Canada. Medicinal preparations	31,151	Jan. 18	82	459
McGale, Bernard E., Montreal, Canada. Medicinal preparations	31,185	Feb. 1	82	745
McKesson & Robbins, New York, N. Y. Ethereal preparations for producing local anesthesia	32,275	Dec. 20	85	1903
Medlar & Holmes Shoe Company, Limited, Philadelphia, Pa. Ladies' shoes	31,334	Mar. 1	82	1413
Mellor & Rittenhouse Company, Philadelphia, Pa. Manufactured licorice	32,255	Dec. 20	85	1900
Merck, Firm of E., Darmstadt, Germany. Chemical and medicinal preparation	32,002	Sept. 27	84	2014
Merck, Firm of E., Darmstadt, Germany. Chemical and medicinal preparation	32,003	Sept. 27	84	2014
Mersick & Co., C. S., New Haven, Conn. Tin and terne plates	31,563	May 17	83	1065
Metallic Cap Manufacturing Company, New York, N. Y. Primers or caps and fuses for blasting purposes	31,136	Jan. 11	82	335
Meyer-Bieck, Elisabeth, Berlin, Germany. Medicinal herb compounds prepared after a certain named system	31,661	June 7	83	1509
Meyers Putz Pomade Company, Boston, Mass. Metal-polish	32,181	Nov. 22	85	1220
Michener & Co., J. H., Philadelphia, Pa. Hog and beef products, such as hams, bacon, shoulders, lard, smoked beef, dried beef, and tongues	31,098	Jan. 4	82	183
Michener & Co., J. H., Philadelphia, Pa. Hog and beef products, such as hams, bacon, shoulders, lard, smoked beef, dried beef, and tongues	31,146	Jan. 18	82	459
Michigan Barrel Company, Grand Rapids, Mich. Refrigerators	31,130	Jan. 11	82	334
Michigan Barrel Company, Grand Rapids, Mich. Refrigerators	31,131	Jan. 11	82	335
Michigan Carbon Works, Detroit, Mich. Manufactured fertilizers	31,354	Mar. 1	82	1415
Miller, James L., New York, N. Y. Remedy for insect bites and stings and for vegetable poison	31,552	May 17	83	1064
Miller, John H., Philadelphia, Pa. Powdered preparations for cleaning or polishing silver	31,600	May 24	83	1206
Mills, Edmund J., Glasgow, Scotland. Liquid glue	31,192	Feb. 1	82	746
Mills & Gibb, New York, N. Y. Gloves	31,258	Feb. 15	82	1046
Mineral Spring Medical Co., Mount Clemens, Mich. Blood medicines	31,874	Aug. 16	84	1139
Minneapolis Plow Works, Minneapolis, Minn. Plow	31,996	Sept. 20	84	1868
Minor, John C., Jr., New York, N. Y. Artificial mineral salts for external use in the bath	32,087	Oct. 25	85	607
Mishler, Abel, Philadelphia, Pa. Extracts in tablet or solid form and tinctures and spirits in liquid form	31,750	June 28	83	1988
Mississippi Glass Company, St. Louis, Mo. Rolled sheet-glass and wired glass	31,672	June 7	83	1510
Mississippi Glass Company, St. Louis, Mo. Rolled plate-glass and wired glass	32,102	Nov. 1	85	773
Missoula Mercantile Company, Missoula, Mont. Hosiery	31,549	May 17	83	1064
Mohawk Condensed Milk Co., Rochester, N. Y. Condensed milk	32,074	Oct. 18	85	452
Mohr, Louis, Pittsburg, Pa. Medicine	32,001	Sept. 27	84	2014
Moline Wagon Company, Moline, Ill. Certain named vehicles	31,904	Aug. 23	84	1280
Monarch Fire Appliance Co., New York, N. Y. Fire-extinguishing compounds and receptacles therefor	31,521	May 10	83	911
Moniz & Co., Borlido, Rio Janeiro, Brazil. Mineral lubricating-oils	31,973	Sept. 13	84	1726
Moniz & Co., Borlido, Rio Janeiro, Brazil. Mineral lubricating-oils	31,974	Sept. 13	84	1726
Montigny, Emile J., Toledo, Ohio. Corsets	31,678	June 14	83	1656
Moody & Co., Charles E., Boston, Mass. Coffee and tea	32,202	Dec. 6	85	1581
Morehouse Manufacturing Company, Savannah, Ga. Baking-powder and bicarbonate of soda	32,263	Dec. 20	85	1901
Morehouse Manufacturing Company, Savannah, Ga. Baking-powder and bicarbonate of soda	32,299	Dec. 27	85	2089
Morel, Veuve Charles, Marseilles, France. Soap	31,535	May 10	83	913
Morgan, John, Gloucester, Mass. Medicine for throat and pulmonary diseases	31,112	Jan. 11	82	333
Morgan & Wright, Chicago, Ill. Pneumatic tires	31,543	May 10	83	914
Morgan & Wright, Chicago, Ill. Pneumatic tires	31,544	May 10	83	914
Morgenstern & Goldsmith, New York, N. Y. Musical instruments	31,976	Sept. 20	84	1866
Moriarty, Edward T., New York, N. Y. Remedies for malarial and kindred fevers	32,179	Nov. 22	85	1220
Morin, Edouard, Quebec, Canada. Remedy for certain named diseases	31,952	Sept. 6	84	1582
Morley Button Manufacturing Company, Boston, Mass. Buttons	31,769	July 5	84	142
Morris, Little & Son, Limited, Doncaster, England; New York, N. Y.; Melbourne, Victoria, and Port Elizabeth, Cape Colony. Medicines for domestic animals	31,871	Aug. 16	84	1139
Morris, Nicodemus, Hallettsville, Tex. Medicine for certain named diseases	32,246	Dec. 13	85	1736
Morton & Lyons, Lynn, Mass. Heel-counters	32,226	Dec. 13	85	1735
Morton-Pringle Gas Heating Company, Limited, London, England. Gas-stoves	31,474	Apr. 19	83	441
Mountain Copper Company, Limited, London, England. Copper in ingots, bars, and other unmanufactured forms	31,564	May 17	83	1065
Moyet, Alfred, Lyons, France. Powdered meat either alone or in connection with chocolate, paste, biscuits, or other articles	31,169	Jan. 25	82	593



*Alphabetical list of registrants of trade-marks—Continued.*

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Mülhens & Kropff, New York, N. Y. Hair- tonic	31,682	June 14	83	1656
Mumford, Charles B., Kansas City, Mo. Remedies for certain named diseases	31,344	Mar. 1	82	1414
Muncie Wheel Co., Muncie, Ind. Vehicle-wheels of all sizes for light buggies or heavy trucks and their parts	31,845	Aug. 2	84	806
Munyon's Homoeopathic Home Remedy Company, Philadelphia, Pa. Malted food	31,090	Jan. 4	82	182
Muralo Company, New York, N. Y. Wall-finish	31,981	Sept. 20	84	1866
Murphy, John J., Mount Vernon, N. Y. Extracts of meat for making soups	31,209	Feb. 1	83	748
Muscatine Oat Meal Company, Muscatine, Iowa. Rolled oats and oatmeal	31,271	Feb. 15	82	1047
Muscatine Oat Meal Company, Muscatine, Iowa. Rolled oats and oatmeal	31,728	June 21	83	1799
Muscatine Oat Meal Company, Muscatine, Iowa. Rolled oats and oatmeal	32,048	Oct. 11	85	286
Muzzy Bros., Paterson, N. J. Cold-water paint	32,011	Sept. 27	84	2015
Myalgine Co., Philadelphia, Pa. Remedies for certain named diseases	31,447	Mar. 29	82	1985
N. K. Fairbank Company, Chicago, Ill. Laundry soap	32,090	Oct. 25	85	607
Naftalan-Gesellschaft, G. M. B. H., Magdeburg, Germany. Naphtha or rock-oil products	32,304	Dec. 27	85	2090
Napoletano, Raffaele, New York, N. Y. Stomach-bitters	31,664	June 7	83	1509
National Biscuit Company, Jersey City, N. J., and Chicago, Ill. Certain named bakery products and confectionery	32,301	Dec. 27	85	2089
National Blank Book Company, Holyoke, Mass. Blank books and writing-paper	32,101	Nov. 1	85	773
National Carbon Company, Cleveland, Ohio. Voltaic-battery cells	31,330	Feb. 22	82	1208
National League of Commission Merchants of the United States, Chicago, Ill. Certain named stationery	31,467	Apr. 19	83	441
National Manufacturing Company, Worcester, Mass. Flour-sifters	31,766	June 28	83	1990
National Mining and Milling Company, Canton, Md. Paints and painters' supplies	31,601	May 24	83	1206
National Mining and Milling Company, Canton, Md. Paints and painters' supplies	31,602	May 24	83	1206
National Sewing Machine Company, Belvidere, Ill. Sewing-machines, stands, and attachments therefor	32,278	Dec. 20	85	1903
National Sewing Machine Company, Belvidere, Ill. Sewing-machines, stands, and attachments therefor	32,279	Dec. 20	85	1903
Neal & Co., John R., Boston, Mass. Whole, cut, boneless, fresh, salt, smoked, and canned fish of all kinds	31,313	Feb. 22	82	1207
Nepera Chemical Company, Yonkers, N. Y., Chicago, Ill., and Paris, France. Photographic paper and chemicals	31,110	Jan. 4	82	184
Nepera Chemical Company, Yonkers, N. Y., Chicago, Ill., and Paris, France. Photographic paper	31,234	Feb. 8	82	892
Neptune Meter Company, Jersey City, N. J., and New York, N. Y. Fluid-meters	31,156	Jan. 18	82	460
Neptune Meter Company, Jersey City, N. J., and New York, N. Y. Fluid-meters	31,905	Aug. 23	84	1280
Neumann, John G., Indianapolis, Ind. Potato products	32,264	Dec. 20	85	1901
New England Watch Company, Waterbury, Conn. Watch-movements, watchcases, and watch parts	32,198	Dec. 6	85	1581
New York and New England Titanic Smokeless Powder Company, Melrose, Mass. Explosive powder	32,182	Nov. 22	85	1220
New York Condensed Milk Company, New York, N. Y. Condensed milk, condensed coffee, condensed cocoa, and coffee extract	31,752	June 28	83	1988
New York Condensed Milk Company, New York, N. Y. Condensed milk	32,258	Dec. 20	85	1901
New York Shellac Co., New York, N. Y. Shellac	31,736	June 21	83	1800
New York Shellac Co., New York, N. Y. Shellac	31,737	June 21	83	1800
Newcomb, Caleb K., Portland, Me. Remedy for stomach and blood diseases	32,024	Oct. 4	85	147
Newmark & Co., M. A., Los Angeles, Cal. Cereal foods prepared from wheat	32,298	Dec. 27	85	2069
Newshuler, Zittelle, Cleveland, Ohio. Collars, cuffs, and shirt-fronts	32,222	Dec. 13	85	1734
Newton Paper Company, Holyoke, Mass. Sheathing-paper	31,846	Aug. 2	84	806
Noblesville Milling Company, Noblesville, Ind. Wheat-flour	31,557	May 17	83	1065
Non-Polarizing Dry Battery Company, New York, N. Y. Dry batteries	31,240	Feb. 8	82	892
Nordlinger, E. J. & L., New York, N. Y. Fire-crackers	31,598	May 24	83	1205
Nordlinger, E. J. & L., New York, N. Y. Fire-crackers	31,599	May 24	83	1205
Norris, Alfred E., Philadelphia, Pa. Whisky	31,636	May 31	83	1344
North & Judd Manufacturing Company, New Britain, Conn. Buckles	31,247	Feb. 15	82	1045
North Wayne Tool Company, North Wayne and Hallowell, Me. Scythes, grass-hooks, and hay-knives	31,768	June 28	83	1990
Northrop, Delbert W., Boston, Mass. Shoe-cloth	31,978	Sept. 20	84	1866
O. F. Zurn Company, Philadelphia, Pa. Cables, ropes, cords, and twines	31,512	May 3	83	742
Oakes, Francis J., New York, N. Y. Harness-dressing	31,193	Feb. 1	82	746
Oberhäuser & Landauer, Würzburg, Germany. Medicines, medicinal specialties, and articles for the toilet	31,590	May 24	83	1205
Oberhaeuser & Landauer, Würzburg, Germany. Certain named medicinal confections, beverages, and preparations	31,856	Aug. 9	84	980
Oberhaeuser & Landauer, Würzburg, Germany. Cocoa and chocolate	32,160	Nov. 15	85	1075
Ocupaugh, Charles H., Rochester, N. Y. Builders' hardware, excluding roofing-tin	31,200	Feb. 1	82	747
Odell, Willis B., Auburn, N. Y. Powder for cure of headache	31,291	Feb. 22	82	1205
Ohio and Mississippi Valley Coal and Mining Company, Marion and Chicago, Ill. Bituminous coal	31,323	Feb. 22	82	1208
Ohio Brass Company, Mansfield, Ohio. Certain named electrical specialties	32,239	Dec. 13	85	1736
Ohlemacher Lime Company, Sandusky, Ohio. Portland and similar cements	31,464	Apr. 12	83	293
Olsen, Monrad J., Des Moines, Iowa, and New York, N. Y. Certain named pharmaceutical preparations	32,208	Dec. 6	85	1582
Olsen, Terje, Stockholm, Sweden. Oils for certain named purposes	31,595	May 24	83	1205
One Second Manufacturing Co., St. Joseph, Mo. Scouring, cleaning, washing, and polishing powders	31,075	Jan. 4	82	181
Oppenheimer, Anton. (See Oppenheimer, Daniel and A.)				
Oppenheimer, Daniel and A., San Antonio, Tex. Hats for men, women, and children	32,120	Nov. 8	85	932
Osborn & Wilson, New York, N. Y. Ribbon-paper	31,248	Feb. 15	82	1045
Osborn & Wilson, New York, N. Y. Ribbon-paper	31,249	Feb. 15	82	1045
Osincup, Frank A., Waverly, Iowa. Compounds and liquid medicines for certain named diseases	32,117	Nov. 1	85	774
Ostermayer, Philipp, Jersey City, N. J. Heel-ball, black-ball, and polishing wax	32,265	Dec. 20	85	1902
Ottenheimer Bros., New York, N. Y. Corsets	31,376	Mar. 8	82	1556
Ottenheimer Bros., New York, N. Y. Corsets	31,977	Sept. 20	84	1866
Overholt & Co., A., Pittsburg, Pa. Whisky	32,204	Dec. 6	85	1581
P. C. Holmes Company, Gardiner, Me. Certain named fibrous compositions	31,870	Aug. 16	84	1139
P. C. Wiest Company, York, Pa. Combination of milk and molasses candy	31,635	May 31	83	1344
Paddock, Loveland, Watertown, N. Y. Preparation for rough or chapped skin	31,460	Apr. 12	83	293
Pantasote Leather Company, Passaic, N. J. Manufactured imitation leather	32,125	Nov. 8	85	932
Paragon Manufacturing Company, Fort Wayne, Ind. Ladies' waists, gowns, and wrappers	32,250	Dec. 20	85	1900
Paris Medicine Company, St. Louis, Mo. Remedies for coughs, colds, headaches, and la grippe	31,087	Jan. 4	82	182
Parke & Co., L. H., Philadelphia, Pa. Prepared coffee	31,205	Feb. 1	82	747
Parker, Holmes & Co., Boston, Mass. Footwear, including boots, shoes, gaiters, overgaiters, overshoes, slippers, and rubbers	31,869	Aug. 16	84	1139
Parker, Russell, New York, N. Y. Pistols	31,844	Aug. 2	84	805
Parodi & Co., Bay Point, Fla. Yellow-pine lumber	31,956	Sept. 6	84	1582



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
Parton, George P., Scranton, Pa. Combustible powders for flash-lights .....	31,684	June 14	83	1656
Patin, Charles, New York, N. Y., and Medellin, United States of Colombia. Medical preparations destructive of bacteria .....	32,020	Oct. 4	85	147
Peal Medicine Co., Cleveland, Ohio. Compounds for the cure of nervous debility .....	31,924	Aug. 30	84	1432
Pearl Roller Mill Company, Oswego, Kans. Wheat-flour .....	32,013	Sept. 27	84	2015
Peerless Carbon Black Company, Limited, Pittsburg, Pa. Carbon-blacks .....	31,818	July 19	84	506
Peerless Rubber Manufacturing Company, New York, N. Y. Packings or gaskets .....	31,325	Feb. 22	82	1208
Pegram & Penn, Madison, N. C. Plug and twist tobacco .....	32,012	Sept. 27	84	2015
Pegram & Penn, Madison, N. C. Plug and twist tobacco .....	32,139	Nov. 8	85	933
Peoria Rubber and Manufacturing Company, Peoria, Ill. Bicycles .....	31,903	Aug. 23	84	1280
Perceval, Charles, New York, N. Y. Cheese .....	32,049	Oct. 11	85	286
Perry & Company, Limited, Birmingham, England. Pens .....	31,958	Sept. 13	84	1725
Personeni, Joseph, New York, N. Y. Solid salts for making beverages .....	31,358	Mar. 1	82	1415
Pfister & Vogel Leather Company, Milwaukee, Wis. Soles and other leather parts of boots and shoes .....	31,849	Aug. 9	84	979
Pfromm, Adam, Philadelphia, Pa. Indigo bluing .....	31,686	June 14	83	1656
Pharmaceutisches Institut Ludwig Wilhelm Gans, Frankfort-on-the-Main, Germany. Powders, pills, tablets, perls, ointments, and tinctures .....	31,963	Sept. 13	84	1725
Pharmaceutisches Institut Ludwig Wilhelm Gans, Frankfort-on-the-Main, Germany. Dietetic preparations of albumen .....	32,145	Nov. 8	85	934
Phelps & Co., W. H., Boston, Mass. Instep-arch supporters .....	31,139	Jan. 11	82	335
Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying-machines .....	31,821	July 19	84	506
Phoebeus & Simpson, Phoebus, Va. Medical compounds for external use .....	31,396	Mar. 8	82	1558
Phoenix Furniture Company, Grand Rapids, Mich. Household and office furniture .....	31,410	Mar. 8	82	1559
Pia, Peter F., New York, N. Y. Toys .....	31,652	June 7	83	1508
Pierre, Joseph M., Fort Wayne, Ind. Remedies for rheumatism .....	32,116	Nov. 1	85	774
Pifer, Alonzo R., Lovington, Ill. Remedy for certain named diseases .....	32,118	Nov. 1	85	774
Pike Manufacturing Company, Haverhill, N. H.; Evansville, Vt.; Manlius and New York, N. Y.; Orleans, Ind., and Hot Springs, Ark. Sharpening-stones .....	31,774	July 5	84	142
Pillow Inhaler Company, Washington, D. C. Pillow-inhalers .....	31,711	June 21	83	1797
Pillsbury, Charles A., Minneapolis, Minn. Infants' and medicinal food .....	31,089	Jan. 4	82	182
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food .....	31,575	May 24	83	1203
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food .....	31,576	May 24	83	1203
Pioneer Nurseries Company, Salt Lake City, Utah. Pear-trees, scions of pear-trees, and pears .....	31,233	Feb. 8	82	892
Pirie & Sons, Limited, Alex. Stonywood Works, Scotland, and New York, N. Y. Paper and envelopes .....	31,280	Feb. 22	82	1204
Pirie & Sons, Limited, Alex. Stonywood Works, Scotland, and New York, N. Y. Paper and envelopes .....	31,281	Feb. 22	82	1204
Pirie & Sons, Limited, Alex. Stonywood Works, Scotland, and New York, N. Y. Paper and envelopes .....	31,282	Feb. 22	82	1204
Pirie & Sons, Limited, Alex. Stonywood Works, Scotland, and New York, N. Y. Paper and envelopes .....	31,283	Feb. 22	82	1204
Plano Manufacturing Company, Chicago, Ill. Machinery for harvesting hay and cereals .....	31,775	July 5	84	143
Plano Manufacturing Company, Chicago, Ill. Machinery for harvesting hay and cereals .....	31,887	Aug. 16	84	1140
Planten, John R., New York, N. Y. Capsules .....	31,525	May 10	83	912
Planten, John R., New York, N. Y. Capsules .....	31,526	May 10	83	912
Plymouth Cordage Company, North Plymouth, Mass. Twine and binder-twine .....	31,812	July 19	84	505
Poley, Warren H., Philadelphia, Pa. Tooth-powder .....	31,175	Jan. 25	82	594
Pollard, Byrd G., Norfolk, Va. Cornmeal .....	31,830	Aug. 2	84	804
Pope Manufacturing Company, Portland, Me., and Hartford, Conn. Bicycles, velocipedes, and like vehicles .....	31,420	Mar. 8	82	1560
Postum Cereal Company, Limited, Battle Creek, Mich. Cereal food for human consumption .....	31,689	June 14	83	1657
Poulton, William C., Temperanceville, Ohio. Cigars .....	31,321	Feb. 22	82	1208
Power Brothers & Co. (See Power, Son & Co. and Power Brothers & Co.) .....				
Power & Co., Edward A., Pittsburg, Pa. Glassware .....	31,710	June 21	83	1797
Power, Son & Co., New York, N. Y., and Power Brothers & Co., London, England. Petroleum and its products and other oils .....	31,120	Jan. 11	82	334
Power, Son & Co., New York, N. Y., and Power Brothers & Co., London, England. Wheat and flour .....	31,311	Feb. 22	82	1207
Power Specialty Co., New York, N. Y. Engines .....	31,569	May 17	83	1066
Pratt & Lambert, New York, N. Y. Liquid driers .....	31,355	Mar. 1	82	1415
Pratt & Lambert, New York, N. Y. Liquid driers .....	31,356	Mar. 1	82	1415
Prescott & Co., J. L., New York, N. Y. Polish .....	31,982	Sept. 20	84	1866
Preservaline Manufacturing Company, New York, N. Y. Certain named preservatives .....	32,041	Oct. 11	85	285
Prout, William A., London, England. Pills .....	31,587	May 24	83	1204
Prout, William A., London, England. Pills .....	31,666	June 7	83	1509
Provident Chemical Works, St. Louis, Mo. Trisodium phosphate .....	31,893	Aug. 23	84	1279
Putnam Nail Company, Boston, Mass. Horseshoe-nails .....	32,218	Dec. 6	85	1582
Queen Cabinet Company, Chicago, Ill. Kitchen-cabinets .....	31,368	Mar. 1	82	1416
R. T. Booth Company, Ithaca, N. Y. Certain named medicinal preparations and medicinal toilet articles .....	32,000	Sept. 27	84	2014
Racine Knitting Co., Racine, Wis. Hosiery .....	31,333	Mar. 1	82	1413
Radiotint, Limited, London, England. Certain named photographic material, apparatus, and products .....	31,574	May 24	83	1203
Radiotint, Limited, London, England. Certain photographic apparatus and material .....	31,655	June 7	83	1508
Ramsey & Effinger, Baltimore, Md. Buckles .....	32,168	Nov. 22	85	1219
Randolph & Clowes, Waterbury, Conn. Tubing made from brass or copper or from brass or copper alloy .....	32,051	Oct. 11	85	286
Randolph & Clowes, Waterbury, Conn. Lavatory, bath, and sink fittings .....	32,052	Oct. 11	85	286
Randolph & Clowes, Waterbury, Conn. Sheet metal made from brass or copper or from brass or copper alloy .....	32,053	Oct. 11	85	286
Randolph & Clowes, Waterbury, Conn. Lavatory, bath, and sink fittings .....	32,150	Nov. 8	85	934
Randolph & Clowes, Waterbury, Conn. Tubing made from brass or copper or from brass or copper alloy .....	32,151	Nov. 8	85	934
Raspe, Firm of Carl, Weissensee, Germany. Disinfecting, antiseptic, and asepticing preparations .....	31,950	Sept. 6	84	1582
Rathbun Company, Deseronto, Canada, and Oswego, N. Y. Cedar shingles .....	31,196	Feb. 1	82	746
Ray, Richard, Kansas City, Mo. Compound celery extract .....	31,878	Aug. 16	84	1140
Rayl, Emma J., Los Angeles, Cal. Uterine and other capsules, cerates, oils, and other remedies for catarrh .....	31,152	Jan. 18	82	459
Reedy, Michael J., Louisville, Ky. Insect-repellents .....	32,112	Nov. 1	85	774
Regan Co., James T., Boone, Iowa. Internal remedy for rheumatism .....	31,641	May 31	83	1344
Regina Music Box Company, Rahway, N. J. Music-boxes and their parts .....	31,153	Jan. 18	82	460
Reichardt, Ferdinand A., New York, N. Y. Surgical instruments and appliances .....	31,999	Sept. 27	84	2014
Reichenbach, Morey & Will Company, Rochester, N. Y. Photographic printing-out paper and prints made thereon .....	31,480	Apr. 26	83	591



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Reichenbach, Morey & Will Company, Rochester, N. Y. Photographic printing-out paper	31,481	Apr. 26	83	591
Reichenbach, Morey & Will Company, Rochester, N. Y. Photographic printing-out paper	31,482	Apr. 26	83	591
Reichenbach, Morey & Will Company, Rochester, N. Y. Photographic paper	31,705	June 21	83	1797
Reisinger, Hugo, New York, N. Y. Carbons for electrical purposes	31,135	Jan. 11	82	335
Reliance Gauge Company, Cleveland, Ohio. Boiler fittings and furnishings	32,063	Oct. 18	85	452
Resinol Chemical Co., Baltimore, Md. Elixirs, laxatives, alteratives, and tonics	31,873	Aug. 16	84	1139
Revere Rubber Company, Boston, Mass. Hose, belting, packing, valves, gaskets, and springs	31,930	Sept. 6	84	1580
Reversible Collar Company, Boston and Cambridge, Mass. Stay-tape	31,847	Aug. 9	84	979
Rice & Hutchins, Incorporated, Boston, Mass. Leather of all kinds and articles made from the same	31,252	Feb. 15	82	1045
Rice & Hutchins, Incorporated, Boston, Mass. Boots, shoes, and leather	32,199	Dec. 6	85	1581
Richardson, Delmer D., Chicago, Ill. Medicine for the treatment of certain named diseases	32,244	Dec. 13	85	1736
Richardson, Delmer D., Chicago, Ill. Medicine for the treatment of a certain named disease	32,245	Dec. 13	85	1736
Richardson, James M., Cleveland, Ohio. Sewing-machines	31,865	Aug. 9	84	980
Richter & Co., F. Ad., New York, N. Y. Medical compositions, embrocations, extracts of sarsaparilla, stomachic tinctures, bitters, lozenges, pastilles, and pills	31,167	Jan. 25	82	593
Ricker & Co., Frank H., Boston, Mass. Whisky	31,695	June 14	83	1657
Riesenman, John M., Franklin, Pa. Concentrated flavoring-syrup for soda-water	31,221	Feb. 8	82	891
Ripley & Son, Edward, Bowling, England. Textile piece goods other than pile fabrics	31,105	Jan. 4	82	184
Riverside Navel Orange Company, Riverside, Cal. Citrus and deciduous fruits	32,142	Nov. 8	85	933
Riverside Navel Orange Company, Riverside, Cal. Citrus and deciduous fruits	32,143	Nov. 8	85	934
Robertson, George W., Corning, N. Y. Letter-books	31,867	Aug. 16	84	1139
Robertson & Son, John, Bellows Falls, Vt. Medicated Manila paper	31,181	Feb. 1	82	745
Robinson, Arthur B., Liverpool, England. Preparations for the cure of toothache	32,175	Nov. 22	85	1219
Robinson-Danforth Commission Company, St. Louis, Mo. Wheat-flour and bread made therefrom	31,989	Sept. 20	84	1867
Robinson, Willard E., Malden, Mass. Soap	31,118	Jan. 11	82	333
Rockford Suspender Company, Rockford, Ill. Suspenders	32,284	Dec. 27	85	2088
Rockhill, Clayton, New York, N. Y. Essential oils, extracts, essences, and flavorings	32,231	Dec. 13	85	1735
Roemheld, Henry F., Milwaukee, Wis. Foot-sole	31,979	Sept. 20	84	1866
Rosedale, Eugene, Boston, Mass. Roasted and ground coffee	31,803	July 12	84	308
Rosenheim Company, New York, N. Y. Tonic and nerve medicines	31,392	Mar. 8	82	1557
Ross, Thomas, Columbus, Ohio. Soap and soap powders	32,192	Nov. 29	85	1396
Roswell, Charles R., Cleveland, Ohio. Liniment	31,857	Aug. 9	84	980
Royal Remedy and Extract Company, Dayton, Ohio. Confectionery	32,230	Dec. 13	85	1735
Rudisch, Phineas, New York, N. Y. Disinfecting and antiseptic preparations	31,685	June 14	83	1656
Russell, David, Montreal, Canada. Dry chemical mixture or effervescent salt	31,091	Jan. 4	82	182
Ryan, Charles V., Springfield, Mass. Medicinal preparations having antiseptic qualities	31,528	May 10	83	912
S. Hershshelm, Bros. & Company, Limited, New Orleans, La. Leaf-tobacco, manufactured tobacco, and cigars	31,732	June 21	83	1799
S. S. Pierce Company, Boston, Mass. Bottled cider	31,580	May 24	83	1204
S. S. Pierce Company, Boston, Mass. Lager-beer	31,926	Aug. 30	84	1432
S. S. Pierce Company, Boston, Mass. Certain named groceries	32,109	Nov. 1	85	773
Safety Insulated Wire and Cable Company, New York, N. Y. Insulated wires	31,329	Feb. 22	82	1208
Saginaw Milling Co., Saginaw, Mich. Baled hay	31,994	Sept. 20	84	1867
Sahlin Novelty Company, Chicago, Ill. Waist-front distenders	31,796	July 12	84	307
Samuels & Bro., J., Providence, R. I. Certain named wearing-apparel	31,707	June 21	83	1797
Sandorides & Co., W., London, England. Cigarettes	31,122	Jan. 11	82	334
Sandover & Co., William, London, England. Kerosene-oil	32,031	Oct. 4	85	148
Sanford, David C., Bridgeport, Conn. Bronze and babbitt metals	32,157	Nov. 15	85	1075
Sarawak Cutch Company, Limited, London, England. Cutch or catechu dye	31,920	Aug. 30	84	1432
Sargent, Martha A., Jersey City, N. J. Preparation of sandalwood in paste form	31,797	July 12	84	307
Saul, Philip C., Albany, N. Y. Boots, shoes, and slippers	32,200	Dec. 6	85	1581
Saunders, Catherine C. S., New York, N. Y. Certain named medicinal remedies and toilet preparations and articles	31,591	May 24	83	1205
Saxe, Matthew D., Troy, N. Y. Tail-holders for horses	31,242	Feb. 8	82	892
Sayre, Theodore H., New York, N. Y. Certain antiseptic and healing lotion or preparation for the skin	31,488	Apr. 26	83	591
Scharmann, Gustav, New York, N. Y. Preparation for the painless treatment of irritated pulps	31,458	Apr. 12	83	293
Schiff, Jordan & Co., New York, N. Y. Electric-light carbons	32,037	Oct. 4	85	148
Schneider, Rudolph, New York, N. Y. Certain named brewers' supplies	31,751	June 28	83	1988
Schoellkopf Aniline and Chemical Co., Buffalo, N. Y. Coloring materials	31,405	Mar. 8	82	1558
Schuchardt & Schütte, Berlin, Germany. Machine-tools	31,806	July 12	84	308
Schuenemann, Louis, St. Louis, Mo. Liniment	31,966	Sept. 13	84	1725
Schwarz, Firm of F. A. O., New York, N. Y. Toys, dolls, and games	31,839	Aug. 2	84	805
Schwarz, Firm of F. A. O., New York, N. Y. Toys, dolls, and games	31,840	Aug. 2	84	805
Schwarzkopf, Jacob, and J. Solinger, Providence, R. I. Jewelry	31,709	June 21	83	1797
Schweinburg, Emil, New York, N. Y. Corsets	31,742	June 28	83	1987
Schweinburg, Emil, New York, N. Y. Corsets	31,743	June 28	83	1987
Schweinburg, Emil, New York, N. Y. Corsets	31,829	Aug. 2	84	804
Schwill & Co., Albert, Cincinnati, Ohio. Malt for brewers' use	31,968	Sept. 13	84	1726
Schwind, Peter, Lemars, Iowa. Remedy for rupture or hernia	31,081	Jan. 4	82	182
Scioto Star Fire-Brick Works, Portsmouth, Ohio. Fire-brick and tiles	31,324	Feb. 22	82	1208
Searle & Hereth Company, Chicago, Ill. Perfumed lozenges	32,026	Oct. 4	85	148
Seggermann Bros., New York, N. Y. Dried fruits	32,044	Oct. 11	85	285
Seggermann Bros., New York, N. Y. Dried fruits	32,045	Oct. 11	85	285
Seggermann Bros., New York, N. Y. Dried fruits	32,046	Oct. 11	85	286
Seggermann Bros., New York, N. Y. Dried fruits and canned-food products	32,047	Oct. 11	85	286
Seggermann Bros., New York, N. Y. Dried fruits	32,091	Oct. 25	85	607
Seufert Bros. & Co., The Dalles, Oreg. Canned fish, particularly salmon	31,127	Jan. 11	82	334
Seville Packing Company, New York, N. Y. Relish consisting of olives and peppers	31,210	Feb. 1	82	748
Shank, Daniel, Clayton, Ill. Plants and trees	31,993	Sept. 20	84	1867
Sharp & Dohme, Baltimore, Md.; New York, N. Y., and Chicago, Ill. Tonic alterative compound	31,715	June 21	83	1798
Shipe, Walter S., Toronto, Canada. Wooden skewers	31,562	May 17	83	1065
Showell & Fryer, Limited, Philadelphia, Pa. Olive-oil	31,691	June 14	83	1657
Shuman & Co., A., Boston, Mass. Boys' trousers	31,518	May 10	83	911
Sibley, Lindsay & Curr Company, Rochester, N. Y. Certain named underwear and umbrellas	31,610	May 31	83	1342
Sibley, William E., Freeport, Ill. Tea, coffee, spices, and canned goods	31,832	Aug. 2	84	804
Silver Dandruff Cure Company, Owosso, Mich. Medicated salve	31,425	Mar. 15	82	1686
Simard, Emile and L. O., Nashua, N. H. Certain named medicinal tablets	32,068	Oct. 18	85	451
Simard, Louis O. (See Simard, Emile and L. O.)				
Simpson, Julius, London, England. Extracts of yeast and extracts of meat	31,437	Mar. 22	82	1818
Slater & Sons, Geo. T., Montreal, Canada. Leather boots, shoes, and slippers	31,102	Jan. 4	82	183
Sleneau, Kate G., Jackson, Mich. Polishing preparation	31,500	May 3	83	741
Sloat Bros. Co., Valdosta, Ga. Liquid remedy for diarrhea, dysentery, and dyspepsia	31,531	May 10	83	912
Smith, Cloyd H., Odebolt, Iowa. Wash or lotion	31,080	Jan. 4	82	182



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Smith & Co., I. D., Chicago, Ill. Polishing and dressing compounds for leather .....	31,490	Apr. 26	83	592
Smith & Co., Joseph N., Detroit, Mich. Bicycle seat-post .....	31,241	Feb. 8	82	892
Smith, Edward C., St. Louis, Mo. Scale-removing compounds for steam-boilers .....	31,230	Feb. 8	82	891
Smith, Freeborn G., New York and Saratoga Springs, N. Y.; Washington, D. C.; Jersey City, Newark, and Paterson, N. J.; Chicago, Ill., and St. Louis and Kansas City, Mo. Organs .....	31,509	May 3	83	742
Smith, Freeborn G., New York and Saratoga Springs, N. Y.; Washington, D. C.; Jersey City, Newark, and Paterson, N. J.; Chicago, Ill., and St. Louis and Kansas City, Mo. Pianofortes .....	31,510	May 3	83	742
Smith, Freeborn G., New York and Saratoga Springs, N. Y.; Washington, D. C.; Jersey City, Newark, and Paterson, N. J.; Chicago, Ill., and Kansas City, Mo. Pianofortes and organs .....	31,541	May 10	83	914
Smith, Kline & French Company, Philadelphia, Pa. Liniment .....	31,585	May 24	83	1204
Smith, Kline & French Company, Philadelphia, Pa. Liniment .....	31,586	May 24	83	1204
Smith, Linford J., La Crosse, Wis. Remedy for the removal of corns, callouses, bunions, ingrowing nails, and warts .....	31,397	Mar. 8	82	1558
Smith, Robert R., Pittsburg, Pa. Insect-destroyer .....	31,921	Aug. 30	84	1432
Smith, William S., Chicago, Ill. Heating and cooking stoves .....	32,018	Sept. 27	84	2016
Smith & Woods, Findlay, Ohio. Chewing-gum .....	32,291	Dec. 27	85	2088
Snook, Charles W., New York, N. Y. Tea, coffee, spices, flavoring extracts, and sauces .....	31,945	Sept. 6	84	1581
Solar Gas and Machine Company, New York, N. Y. Acetylene-gas generators and their parts .....	32,152	Nov. 8	85	994
Sol-Blu Manufacturing Company, New York, N. Y. Wash-blue .....	32,162	Nov. 15	85	1076
Solinger, Jacob. (See Schwarzkopf and Solinger.) .....				
Sondheim, Stein & Co., New York, N. Y. Ladies' shirt-waists .....	32,122	Nov. 8	85	932
South Bend Iron Works, South Bend, Ind. Plows .....	31,370	Mar. 1	82	1416
South Bend Iron Works, South Bend, Ind. Plows .....	31,415	Mar. 8	82	1559
Southern Manufacturing Company, Richmond, Va. Baking-powder .....	32,172	Nov. 22	85	1219
Southern Manufacturing Company, Richmond, Va. Baking-powder .....	32,300	Dec. 27	85	2089
Spencerian Pen Company, New York, N. Y. Certain named articles of stationery .....	32,197	Dec. 6	85	1581
Spooner, Alonzo W., Port Hope, Canada. Species of antifriction metal .....	32,130	Nov. 8	85	933
Sprague, Warner & Company, Chicago, Ill. Baking-powder .....	31,312	Feb. 22	82	1207
Sprague, Warner & Company, Chicago, Ill. Coffee and coffee substitutes .....	31,316	Feb. 22	82	1207
Sprague, Warner & Company, Chicago, Ill. Certain named beverages .....	31,359	Mar. 1	82	1415
Sprague, Warner & Company, Chicago, Ill. Lemon, vanilla, and orange extracts .....	31,438	Mar. 22	82	1818
Sprague, Warner & Company, Chicago, Ill. Certain named spices and condiments .....	31,450	Mar. 29	82	1986
Sprague, Warner & Company, Chicago, Ill. Certain named confectionery .....	31,789	July 5	84	144
Springfield Drop Forging Company, Springfield, Mass. Drop-forgings, wrenches, and bicycle parts .....	31,645	May 31	83	1344
St. Louis Pop Corn Company, St. Louis, Mo. Prepared pop-corn .....	31,634	May 31	83	1344
Staedtler, Firm of J. S., Nuremberg, Germany. Certain named articles of stationery .....	31,928	Aug. 30	84	1432
Standard Distilling and Distributing Company, New York, N. Y. Alcohol, spirits, gin, and whisky .....	31,927	Aug. 30	84	1432
Standard Emulsion Company, New York, N. Y. Emulsions for use in conditions of malnutrition .....	31,168	Jan. 25	82	593
Standard Garment Cutting Company, Chicago, Ill., Wichita and Hutchinson, Kans., and St. Joseph, Mo. Measuring appliances .....	31,285	Feb. 22	82	1204
Standard Remedy Company, Chicago, Ill. Medicine for venereal diseases .....	31,345	Mar. 1	82	1414
Stanton Soap Company, Tacony, Pa. Cleansing, healing, and scouring soap .....	31,400	Mar. 8	82	1558
Stark Bros. Nurseries and Orchards Company, Louisiana, Mo. Apple-trees .....	32,184	Nov. 22	85	1220
Stark Bros. Nurseries and Orchards Company, Louisiana, Mo. Apple-trees .....	32,185	Nov. 22	85	1220
Steel, John T., New York, N. Y. Liniment .....	31,503	May 3	83	741
Steinhoff, George B. M., Scott, W. Va. Remedy for diseases of cattle .....	31,802	July 12	84	307
Stern, Herman, Cleveland, Ohio. Cleaning compound or liquid .....	32,205	Dec. 6	85	1581
Stevenson & Co., William N., New York, N. Y. Self-closing umbrellas and parasols .....	31,434	Mar. 22	82	1817
Stevenson, William M., Sydney, New South Wales. Tonic .....	32,071	Oct. 18	85	451
Stock, Frederick J., New York, N. Y. Cathartic medicines .....	32,190	Nov. 29	85	1396
Stohn's Sons, C., Jersey City, N. J. Silk vestings, button-stock, and dress-goods .....	31,571	May 24	83	1203
Stone, Harry, Newark, N. J. Cigars .....	31,121	Jan. 11	82	334
Strauss, Ferdinand, New York, N. Y. Harmonicas .....	31,243	Feb. 8	82	892
Strauss, Ferdinand, New York, N. Y. Autoharps, citherns, and guitars .....	31,739	June 28	83	1987
Strauss, Sachs & Co., New York, N. Y. Harmonicas .....	31,128	Jan. 11	82	334
Strong & Co., Joseph, Terre Haute, Ind. Baking-powder .....	31,970	Sept. 13	84	1726
Strutz, Carl O., Chicago, Ill. Scouring-soap .....	32,303	Dec. 27	85	2089
Sulphume Company, Chicago, Ill. Remedy for skin and blood disorders .....	31,754	June 28	83	1988
Sun Chemical Co., Denver, Colo. Emulsion medicinal preparation .....	31,295	Feb. 22	82	1205
Supplee Hardware Company, Philadelphia, Pa. Shovels, spades, and scoops .....	31,273	Feb. 15	82	1047
Supplee Hardware Company, Philadelphia, Pa. Axes and hatchets .....	31,604	May 24	83	1206
Supplee Hardware Company, Philadelphia, Pa. Bicycles, tricycles, and velocipedes .....	31,676	June 7	83	1510
Swanson & Lloyd, Chicago, Ill. Fever antidote devoid of narcotic ingredients .....	32,288	Dec. 27	85	2088
Sweester, Pembroke & Co., New York, N. Y. Dress goods other than silk goods .....	32,283	Dec. 27	85	2088
Swift & Company, Chicago, Ill. Certain named packing-house products .....	32,233	Dec. 13	85	1735
Swift & Company, Chicago, Ill. Certain named packing-house products .....	32,234	Dec. 13	85	1735
Swift & Company, Chicago, Ill. Certain named packing-house products .....	32,235	Dec. 13	85	1735
Swift & Company, Chicago, Ill., and St. Paul, Minn. Certain named meats and compounds .....	31,578	May 24	83	1204
Swits Condé Company, Oswego, N. Y. Knit undergarments .....	32,123	Nov. 8	85	932
Syracuse Chilled Plow Company, Syracuse, N. Y. Plows and their parts .....	31,466	Apr. 12	83	294
Syracuse Chilled Plow Company, Syracuse, N. Y. Plows and their parts .....	32,098	Oct. 25	85	608
Tabor, Thomas H., Ellijay, and J. E. Craig, Gainesville, Ga. Certain solution for cleansing purposes .....	32,080	Oct. 18	85	452
Taddéi, Antoine L., New York, N. Y. Medicinal pomade or ointment .....	31,872	Aug. 16	84	1139
Taves, Paul, New York, N. Y. Medicinal compounds .....	32,243	Dec. 13	85	1736
Tebbutt, Elizabeth G., Albany, N. Y. Clasps .....	31,237	Feb. 8	82	892
Teeples, George M., East Oakland, Cal. Rheumatism and neuralgia cures .....	31,085	Jan. 4	82	182
Terry, Hubert, West Hoboken, N. J. Medical plasters .....	31,835	Aug. 2	84	804
Teutonia Misburger Portland Cementwerk, Misburg, Germany. Portland cement .....	31,524	May 10	83	912
Texas Tram and Lumber Company, Beaumont, Tex. Pine lumber .....	32,153	Nov. 8	85	934
Thaddeus Davids Company, New York, N. Y. Indelible ink .....	31,232	Feb. 8	82	892
Thaddeus Davids Company, New York, N. Y. Mucilage and paste .....	31,631	May 31	83	1343
Thaddeus Davids Company, New York, N. Y. Black ink .....	31,658	June 7	83	1509
Thayer, George E., Milford, Mass. Food for poultry and birds .....	31,439	Mar. 22	82	1818
Thomas & Clarke, Peoria, Ill. Crackers .....	31,948	Sept. 6	84	1582
Thomas Evans Company, Pittsburg, Pa. Lamp-chimneys .....	31,540	May 10	83	913
Thomas G. Plant Company, Boston, Mass. Boots and shoes .....	32,038	Oct. 11	85	285
Thompson & Co., F. M., Decatur, Ill. Witch-hazel cream and toilet cream .....	32,227	Dec. 13	85	1735
Thompson, Horace, Concord, N. H. Long-handled brooms for household use .....	31,819	July 19	84	506
Tidman & Son, Limited, London, England. Sea-salt .....	31,731	June 21	83	1799
Tilton, Eugene H., Boston, Mass. Leather boots and shoes .....	31,848	Aug. 9	84	979
Tochtermann, Robert F., London, England; New York, N. Y., and Washington, D. C. Combs .....	31,546	May 17	83	1064
Todd, Henry H., New Haven, Conn. Corsets .....	31,099	Jan. 4	82	183
Tonk & Bro., William, New York, N. Y. Strings for musical instruments and stringed musical instruments .....	31,244	Feb. 15	82	1045



*Alphabetical list of registrants of trade-marks—Continued.*

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Trevisanello, Charles, Newark, N. J. Medicinal tonics	31,663	June 7	83	1509
Tripp, Alan H., Chicago, Ill. Cement for sealing pipe-joints and the like	31,119	Jan. 11	82	333
Tulloch, James, Chicago, Ill. Soaps	31,423	Mar. 15	82	1686
Turner Brass Works, Chicago, Ill. Certain named metal articles	32,014	Sept. 27	84	2015
Turner, Frederick W., Jr., Boston, Mass. Substitute for soap	31,780	July 5	84	143
Ulrich & Co., J., New York, N. Y. Stylographic and fountain pens	31,656	June 7	83	1508
Ulrich & Co., J., New York, N. Y. Stylographic pens	32,220	Dec. 13	85	1734
Underwood, Francis J., Hartford, Conn. Washing, cleaning, and polishing compounds or substances	31,940	Sept. 6	84	1581
Unger, Charles W., Los Angeles, Cal. Herb remedies for certain named diseases	31,785	July 5	84	144
Union Bag and Paper Company, Chicago, Ill. Paper bags	31,180	Feb. 1	82	745
Union Linen Company, Guild, N. H. Certain named woven linen fabric	31,810	July 19	84	505
Union Oil Company, Providence, R. I., and New York, N. Y. Cooking-oils	31,947	Sept. 6	84	1581
Union Oil Company, Providence, R. I., and New York, N. Y. Cotton-seed oil	32,010	Sept. 27	84	2015
Union Pacific Railroad Company, Omaha, Nebr. Railway freight and passenger cars	32,036	Oct. 4	85	148
Union Sand Paper and Emery Wheel Company, Portland, Me.; Boston, Mass., and Chicago, Ill. Abrasive materials, sandpaper, and emery paper and cloth	31,776	July 5	84	143
United States Chemical Manufacturing Company of New York, New York, N. Y. Polishers for glass and metal	32,266	Dec. 20	85	1902
United States Iron and Tin Plate Manufacturing Company, McKeesport, Pa. Tin or terne plate	32,099	Oct. 25	85	608
Vacuum Oil Company, Rochester, N. Y. Oils	31,733	June 21	83	1799
Vacuum Oil Company, Rochester, N. Y. Oils	31,734	June 21	83	1799
Vacuum Oil Company, Rochester, N. Y. Oils	31,735	June 21	83	1800
Vacuum Oil Company, Rochester, N. Y. Lubricating-oils	31,861	Aug. 9	84	980
Vail Brothers, Philadelphia, Pa. Perfumery, toilet water, toilet soap, and toilet powders	31,302	Feb. 22	82	1206
Valentine, Charles R., Lee, England. Certain foods and relishes	31,507	May 3	83	742
Valentine, Charles R., Lee, England. Certain foods and relishes	31,508	May 3	83	742
Valentine, Charles R., Lee, England. Certain named food extracts and preparations	31,879	Aug. 16	84	1140
Valentine Extract Company, Limited, London, England. Extract of meat, poultry, fish, soups, cream and other dairy produce, and food preparations	31,448	Mar. 29	82	1985
Valley Drug Co., Wilkes-Barré, Pa. Mixture of drugs for treatment of diseases of the lungs, throat, and air-passages	31,227	Feb. 8	82	891
Valley Gem Piano Company, Cincinnati, Ohio. Cabinet grand-pianos	31,411	Mar. 8	82	1559
Van Nostrand, Alonzo G., Boston, Mass. Ale, lager-beer, and porter	31,492	Apr. 26	83	592
Van Vleet-Mansfield Drug Company, Memphis, Tenn. Mentho-quinine and laxative quinidine tablets, and a kidney cure	31,784	July 5	84	144
Vandergrift Manufacturing Company, Jamestown, N. Y. Washing-machines	31,808	July 12	84	308
Vass Chemical Company, Danbury, Conn. Laxative salt of lithia	32,274	Dec. 20	85	1903
Vatter, Frank, New Orleans, La. Claret-wine	31,092	Jan. 4	82	183
Vaupel Samaritan Company, Cleveland, Ohio. Condiment	31,882	Aug. 16	84	1140
Vermont Condensed Milk Company, Burlington and Richmond, Vt. Condensed milk	31,579	May 24	83	1204
Victor Rubber Tire Company, Springfield, Ohio, New York, N. Y., Boston, Mass., and London, England. Solid-rubber tires	31,365	Mar. 1	82	1416
Vogelgesang, Theodore J., Buffalo, N. Y. Fever remedies	31,875	Aug. 16	84	1139
Vogt Manufacturing and Coach Lace Company, Rochester, N. Y. Trimming-braid	32,055	Oct. 18	85	450
W. A. Gaines & Company, Frankfort, Ky. Whisky	31,123	Jan. 11	82	334
W. D. & H. O. Wills, Limited, Bristol and London, England. Cigarettes	32,159	Nov. 15	85	1075
W. W. Montague & Company, San Francisco, Cal. Roofing-tin	31,416	Mar. 8	82	1560
Wale, George, Troy, N. Y. Kaleidoscopes	32,306	Dec. 27	85	2090
Walker, Robert A., Buffalo, N. Y. Remedy in tablet form	31,665	June 7	83	1509
Walley, Charles P., New York, N. Y. Gelatinous compounds	31,477	Apr. 19	83	442
Walter M. Lowney Company, Boston, Mass. Bonbons	32,104	Nov. 1	85	773
Walter T. Bradley Company, Philadelphia, Pa. Portland cement	31,195	Feb. 1	82	746
Waltham Manufacturing Company, Waltham, Mass. Bicycles	32,196	Nov. 29	85	1396
Wanamaker, John, Philadelphia, Pa. Men's, youths', and boys' clothing and ladies' and misses' tailor-made gowns, wraps, and coats	31,141	Jan. 11	82	336
Wanamaker, John, Philadelphia, Pa. Ladies', misses', and gentlemen's kid gloves	31,794	July 12	84	307
Warburton, Frank E., Pawtucket, R. I. Yarn with silk finish	31,909	Aug. 30	84	1431
Warburton, Frank E., Pawtucket, R. I. Yarn with silk finish	31,910	Aug. 30	84	1431
Warner Brothers Company, Bridgeport, Conn. Corsets	31,795	July 12	84	307
Warner, Olive E., New York, N. Y. Remedies for nervous, blood, and stomach diseases	31,183	Feb. 1	82	745
Warwick Frères, Grasse, France, and New York, N. Y. Oils and certain named toilet articles and preparations	31,596	May 24	83	1205
Washington Building Lime Company, Buckeystown and Baltimore, Md. Lime	31,308	Feb. 22	82	1206
Wasson, James R., Chicago, Ill. Remedy for certain named diseases	31,965	Sept. 13	84	1725
Waterman Pen Co., A. A., Boston, Mass. Fountain-pens	31,442	Mar. 29	82	1985
Waukesha Water Company, Jersey City, N. J. Mineral waters	31,791	July 5	84	144
Weaver-Markel Chemical Company, Union Bridge, Md. Certain named medical compounds	32,136	Nov. 8	85	933
Webb & Meyer, New York, N. Y. Whisky	31,696	June 14	83	1657
Weeks, Eugene J., New York, N. Y. Women's corsets, waists, paniers, forms, and suspenders	31,375	Mar. 8	82	1556
Weinberger, Samuel. (See Landesmann and Weinberger.)				
Weisbrod & Hess, Philadelphia, Pa. Light brewings of lager-beer	31,318	Feb. 22	82	1207
Wellenkamp, Charles E., New York, N. Y. Wheat-flour	31,727	June 21	83	1799
Wells & Co., M. D., Chicago, Ill. Shoes	32,187	Nov. 29	85	1396
Welsbach Light Company, Gloucester City, N. J., and Philadelphia, Pa. Incandescent mantles	31,140	Jan. 11	82	335
Wertheimer, Joseph, New York, N. Y. Cigars	31,322	Feb. 22	82	1208
West Boylston Manufacturing Company, West Boylston, Mass. Tubular cheese-cloth bandages	31,511	May 3	83	742
West India Fibre Company, Salem and Boston, Mass. Fibrous material for stuffing purposes	31,550	May 17	83	1064
Western Camera Manufacturing Company, Chicago, Ill., and New York, N. Y. Photographic printing-paper	31,654	June 7	83	1508
Western Camera Manufacturing Company, Chicago, Ill., and New York, N. Y. Photographic cameras	31,698	June 14	83	1657
Western Wheel Works, Chicago, Ill. Safety-bicycles	31,070	Jan. 4	82	181
Wheeler, Michael A., Troy, N. Y. Ointment	31,683	June 14	83	1656
Whipple Brothers, Westerly, R. I. Washing-machines	32,035	Oct. 4	85	148
Whitcher & Co., Frank W., Boston, Mass. Rubber heels for boots and shoes	31,961	Sept. 13	84	1725
White Rock Mineral Spring Company, Waukesha, Wis. Mineral waters	31,753	June 28	83	1988
Whiting, Henry F., Lowell, Mass. Leather driving-belts for machinery	31,288	Feb. 22	82	1205
Whiting Paper Company, Holyoke, Mass. Writing-paper	31,515	May 10	83	911
Whiting Paper Company, Holyoke, Mass. Writing-paper	31,573	May 24	83	1203
Whiting Paper Company, Holyoke, Mass. Writing-paper	31,618	May 31	83	1343
Whiting Paper Company, Holyoke, Mass. Writing-paper	31,704	June 21	83	1797
Whiting Paper Company, Holyoke, Mass. Writing-papers	31,770	July 5	84	142
Whiting Paper Company, Holyoke, Mass. Writing-paper	31,793	July 12	84	307
Whitman & Barnes Manufacturing Company, Akron, Ohio. Certain named rubber goods	31,251	Feb. 15	82	1045
Whitman & Barnes Manufacturing Company, Akron, Ohio. Rubber goods	31,364	Mar. 1	82	1416



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Whitman & Barnes Manufacturing Company, Akron, Ohio. Golf-balls .....	32,248	Dec. 13	85	1736
Whitman & Co., Clarence, New York, N. Y. Cotton-napped fabric .....	31,254	Feb. 15	82	1046
Wiestling, The Misses, Middletown, Pa. Home-made biscuits, wafers, and the like .....	31,206	Feb. 1	82	748
Wilde, Joseph, Newark, N. J. Remedies for certain named diseases .....	32,247	Dec. 13	85	1736
Willard, Edward A., New York, N. Y. Tea .....	31,815	July 19	84	505
Willard, Edward A., New York, N. Y. Certain named teas .....	31,823	July 26	84	646
William Clark Company, Jersey City, N. J., and Stonington, Conn. Cotton yarns and threads ..	31,164	Jan. 25	82	593
William Skinner Manufacturing Company, Holyoke, Mass. Silks .....	31,212	Feb. 8	82	890
Williams & Co., Linlithgo and Bath-on-the-Hudson, N. Y. Liniment .....	31,298	Feb. 22	82	1205
Williams, Frank S., Washington, D. C. Skin-lotions .....	31,346	Mar. 1	82	1414
Williams & Newman, Chicago, Ill. Medicated whisky .....	31,718	June 21	83	1798
Williamson & Watts, Baltimore, Md. Corn-plaster .....	31,998	Sept. 27	84	2014
Wilmot & Hobbs Manufacturing Company, Bridgeport, Conn. Sheet-metal tubes .....	31,842	Aug. 2	84	805
Wilson, Baylor, Navasota, Tex. Flavoring compound for syrup for soda-water .....	31,833	Aug. 2	84	804
Winchester Repeating Arms Company, New Haven, Conn. Cartridges and cartridge-shells .....	31,137	Jan. 11	82	335
Winchester Repeating Arms Company, New Haven, Conn. Ammunition for small-arms .....	31,674	June 7	83	1510
Wisse, Iman, Grand Rapids, Mich. Face and skin applications .....	31,188	Feb. 1	82	746
Wm. J. Matheson & Company, Limited, New York, N. Y. Acetanilid, nitrite of soda, and blanc fixe .....	32,237	Dec. 13	85	1735
Woelfel, Joseph M., and R. F. Kineavy, Philadelphia, Pa. Soap powders .....	31,628	May 31	83	1343
Wolf, Martin L., Philadelphia, Pa. Whisky .....	31,493	Apr. 26	83	592
Wolfe, McMillan & Co., Philadelphia, Pa. Roasted or prepared coffee .....	32,260	Dec. 20	85	1901
Wolff, George S., Philadelphia, Pa. Leather .....	31,519	May 10	83	911
Wood Manufacturing Co., Toledo, Ohio. Adjustable handle-bars for bicycles .....	31,133	Jan. 11	82	335
Woodstock Iron Works, Anniston, Ala. Pig-iron .....	31,675	June 7	83	1510
Woodward & Bailey, New York, N. Y. Men's shirts .....	31,487	Apr. 26	83	591
Worcester Corset Company, Worcester, Mass. Corsets .....	31,286	Feb. 22	82	1204
Worcester Corset Company, Worcester, Mass. Corsets .....	32,085	Oct. 25	85	607
Wright, Firm of Alfred, Rochester, N. Y. Perfumery .....	31,594	May 24	83	1205
Wright & Greig, Limited, Glasgow, Scotland. Whisky .....	31,319	Feb. 22	82	1207
Wright & Greig, Limited, Glasgow, Scotland. Whisky .....	31,320	Feb. 22	82	1207
Yale & Towne Manufacturing Company, Stamford, Conn. Locks .....	31,843	Aug. 2	84	805
Yarnell, Henry H. (See Baer, Yarnell, and Zimmerman.)				
Yost, Sarah A., Arkansas City, Kans. Crumb home-made yeast .....	31,494	Apr. 26	83	592
Ziegfeld Co., New York, N. Y. Key-opening can-head .....	32,240	Dec. 13	85	1736
Ziegler Bros., Philadelphia, Pa. Ladies', misses', and children's shoes .....	32,223	Dec. 13	85	1734
Zimmerman, James A. (See Baer, Yarnell, and Zimmerman.)				
Zucker & Levett & Loeb Company, New York, N. Y. Ammonia cleansing compound .....	31,941	Sept. 6	84	1581



# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

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American Chemical Co., Cleveland, Ohio. "Pearls of Health Tablets" .....	6,602	June 14	83	1517
American Lithographic Company, New York, N. Y. "Cool Smoke." (For Cigars) .....	6,566	Mar. 29	82	1840
American Lithographic Company, New York, N. Y. "Nixey Nit." (For Cigar-Boxes) .....	6,577	May 3	83	599
American Lithographic Company, New York, N. Y. "Queen Jenny." (For Cigars) .....	6,597	June 14	83	1517
American Lithographic Company, New York, N. Y. "Cuban Daisy." (For Cigars) .....	6,604	June 21	83	1665
American Lithographic Company, New York, N. Y. "War Signals." (For Cigars) .....	6,626	July 19	84	315
American Lithographic Company, New York, N. Y. "Rule Columbia." (For Cigars) .....	6,627	July 19	84	315
American Lithographic Company, New York, N. Y. "Cupid's Game." (For Cigars) .....	6,636	Aug. 9	84	813
American Lithographic Company, New York, N. Y. "Our Hero." (For Cigars) .....	6,645	Aug. 23	84	1147
American Lithographic Company, New York, N. Y. "Navy Belle." (For Cigars) .....	6,646	Aug. 23	84	1147
American Lithographic Company, New York, N. Y. "Yankee Drops," Manila Flavor. (For Cigars) .....	6,649	Aug. 30	84	1287
American Lithographic Company, New York, N. Y. "Gloria Mundi 'One Aim' 'One Goal.'" (For Cigars) .....	6,683	Oct. 4	85	1
American Lithographic Company, New York, N. Y. "City Troop." (For Cigars) .....	6,684	Oct. 4	85	1
American Lithographic Company, New York, N. Y. "Gloria Mundi." (For Cigars) .....	6,685	Oct. 4	85	1
American Lithographic Company, New York, N. Y. "Chief Engineer." (For Cigars) .....	6,686	Oct. 4	85	1
American Lithographic Company, New York, N. Y. "Our Crown." (For Cigars) .....	6,687	Oct. 4	85	1
American Lithographic Company, New York, N. Y. "El Certificado." (For Cigars) .....	6,694	Oct. 11	85	153
American Lithographic Company, New York, N. Y. "Bouquet de San Juan." (For Cigars) .....	6,702	Oct. 25	85	459
American Lithographic Company, New York, N. Y. "Yankee Smoke." (For Cigars) .....	6,717	Nov. 15	85	941
American Lithographic Company, New York, N. Y. "Golden Eagle." (For Cigars) .....	6,718	Nov. 15	85	941
American Lithographic Company, New York, N. Y. "Success is the Guarantee of Merit." (For Cigars) .....	6,719	Nov. 15	85	941
American Lithographic Company, New York, N. Y. "Planta de Santiago." (For Cigars) .....	6,720	Nov. 15	85	941
American Lithographic Company, New York, N. Y. "Pour La Nobless." (For Cigars) .....	6,730	Dec. 6	85	1409
American Lithographic Company, New York, N. Y. "Pour La Nobless." (For Cigars) .....	6,731	Dec. 6	85	1409
American Lithographic Company, New York, N. Y. "La Tubarosa." (For Cigars) .....	6,736	Dec. 13	85	1587
American Lithographic Company, New York, N. Y. "The Guild Hall." (For Cigars) .....	6,741	Dec. 20	85	1743
American Lithographic Company, New York, N. Y. "The Enfield." (For Cigars) .....	6,742	Dec. 20	85	1743
American Lithographic Company, New York, N. Y. "Fire Fighters." (For Cigars) .....	6,743	Dec. 20	85	1743
American Lithographic Company, New York, N. Y. "Pathfinder." (For Cigars) .....	6,757	Dec. 27	85	1909
Anheuser-Busch Brewing Association, St. Louis, Mo. "Black & Tan." (For Beer) .....	6,598	June 14	83	1517
Armstrong & Co., Toledo, Ohio. "Rosedale Brand." (For Canned Fruits, Vegetables, and Wines) .....	6,676	Sept. 27	84	1875
Atlantic Peanut Refinery, Philadelphia, Pa. "Peanut Butter." (For a Nut Food) .....	6,745	Dec. 20	85	1743
Bare, J. B., Baltimore, Md. "Bare's Dyspepsia Remedy and Tissue Builder." (For a Medicine) .....	6,641	Aug. 16	84	987
Barnes, Hollis M., New York, N. Y. "Croakers." (For Cough Tablets or Lozenges) .....	6,747	Dec. 20	85	1743
Bell & Sons, Samuel, Philadelphia, Pa. "Bell's Flour." (For Flour) .....	6,755	Dec. 27	85	1909
Berrien, William P., Montclair, N. J., and A. W. Smith, New York, N. Y. "Uncle Sam's Maine Puzzle" .....	6,638	Aug. 16	84	987
Billeter, C., Chicago, Ill. "The Best Tonic Celebrated Swiss Herb Bitters" .....	6,563	Mar. 29	82	1840
Bitting, W. L., Sherman, Tex. "Koke." (For a Chemical Compound) .....	6,752	Dec. 27	85	1909
Bishop, Lauren E., and H. L. Halliday, Elmira, N. Y. "Milk of Wild Olives." (For a Lotion for the Skin) .....	6,585	May 10	83	749
Boericke & Tafel, Philadelphia, Pa. "Physiological Nerve and Tissue Food." (For a Medical Compound) .....	6,677	Sept. 27	84	1875
Boericke & Tafel, Philadelphia, Pa. "Physiological Salts." (For a Medical Compound) .....	6,678	Sept. 27	84	1875
Boericke & Tafel, Philadelphia, Pa. "Physiological Salts." (For a Medical Compound) .....	6,679	Sept. 27	84	1875
Boericke & Tafel, Philadelphia, Pa. "Physiological Phosphates." (For a Medicinal Compound) .....	6,712	Nov. 15	85	941
Boericke & Tafel, Philadelphia, Pa. "Physiological Earths." (For a Medicinal Compound) .....	6,713	Nov. 15	85	941
Bohea Importing Company, Baltimore, Md. "Royal Crest." (For Tea) .....	6,574	Apr. 26	83	449
Bohea Importing Company, Baltimore, Md. "Pennant Chop." (For Tea) .....	6,575	Apr. 26	83	449
Briggs, W. H., Northport, Wash. "The Original Extract of Figs." (For Medicine) .....	6,663	Sept. 13	84	1589
Brincklé, Addington L., Philadelphia, Pa. "The Red White and Blue, or Dewey Puzzle." (For a Game) .....	6,709	Nov. 15	85	941
Brookes Bros., New York, N. Y. "English Sauce" .....	6,567	Mar. 29	82	1840
Browder, Joseph A., New York, N. Y. "Pony Claret." (For Claret-Wine) .....	6,744	Dec. 20	85	1743
Buttfield, W. J., New York, N. Y. "Our Choice T, Good Luck and Swan Chop" .....	6,608	June 21	83	1665
Buttfield, W. J., New York, N. Y. "Cousins." (For Tea) .....	6,667	Sept. 13	84	1589
Buttfield, W. J., New York, N. Y. "Ho-Tea." (For Tea) .....	6,668	Sept. 13	84	1589
Buttfield, W. J., New York, N. Y. "Shield Chop." (For Tea) .....	6,669	Sept. 13	84	1589
Buttolph, Albert C., Chicago, Ill. "Vena-Cura." (For Varicose Veins) .....	6,753	Dec. 27	85	1909
Cabler, W. P. Frank, Council Bluffs, Iowa. "Hadaah." (For Medicine) .....	6,618	June 28	83	1807
Carrara Paint Company, Barberton, Ohio. "Carrara." (For Paint) .....	6,635	Aug. 2	84	653
Chicago Wood Finishing Company, Chicago, Ill. "Yankee House Cleaner." (For Cleaning Compounds) .....	6,724	Nov. 22	85	1083
Chretien, Charles N. O., New Orleans, La. "Dr. Mile's Cure for Consumption." (For Medicine) .....	6,748	Dec. 20	85	1743
Circleville Canning Company, Circleville, Ohio. "Royal Purple." (For Tomatoes) .....	6,564	Mar. 29	82	1840
Circleville Canning Company, Circleville, Ohio. "Royal Cream of Corn." (For Canned Hominy-Corn) .....	6,738	Dec. 13	85	1587
Clough, Ellen M., Chicago, Ill. "Old Homestead Brand." (For Plum-Pudding) .....	6,700	Oct. 18	85	293
Cohen, Nathan H., Urbana, Ill. "Invincible." (For Cigars on Cigar-Boxes) .....	6,721	Nov. 15	85	941
Columbus Distilling Co., New York, N. Y. "Full Strength." (For Alcohol and other Products of the Distillery) .....	6,568	Mar. 29	82	1840
Commonwealth Brewing Company, Philadelphia, Pa. "Cycle Beer." (For Beer) .....	6,633	Aug. 2	84	653
Concordia Land and Improvement Association, Thorsby, Ala. "From Thorsby Ala. to Market." (For Grapes) .....	6,671	Sept. 13	84	1589
Cook & Bernheimer Company, New York, N. Y. "Gold Lion Cocktails." (For Cocktails) .....	6,758	Dec. 27	85	1909
Corbett, Winfield S., Kansas City, Mo. "Log Cabin Baking Powder" .....	6,603	June 14	83	1517
Court Perfumery Company, New York, N. Y. "Eau de Frangipanni." (For Toilet Water) .....	6,630	Aug. 2	84	653
Court Perfumery Company, New York, N. Y. "Eau de Toilette Violette." (For Toilet Water) .....	6,631	Aug. 2	84	653
Court Perfumery Company, New York, N. Y. "Eau de Cologne de la Cour." (For Toilet Water) .....	6,632	Aug. 2	84	653



*Alphabetical list of registrants of labels—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Cramer, J. George, Rochester, N. Y. "Pickwick Paper." (For Toilet-Paper).....	6,640	Aug. 16	84	987
Cream Cereal Company, Xenia, Ohio. "Cereal Pancake Flour." (For Pancake-Flour).....	6,756	Dec. 27	85	1909
Crocker, Frank, Washington, D. C. "Velvetta Kid." (For Leather and Kid).....	6,592	May 24	83	1073
D. S. Erb & Co., Boyertown, Pa. "El Guardo." (For Cigars).....	6,699	Oct. 18	85	293
Dakin, Archibald, Brockton, Mass. "Arab Balsam." (For Balsam).....	6,664	Sept. 13	84	1589
Davenport, D. F., Americus, Ga. "Davenport's Tasteless Sulphate Quinine".....	6,680	Sept. 27	84	1875
Decker, Harrison, East Orange, N. J. "Orange Club." (For Bottled Whisky).....	6,715	Nov. 15	85	941
Diamond Match Company, Chicago, Ill. "Chips that Pass in the Night." (For Matches).....	6,653	Aug. 30	84	1287
Dodsworth, Flora, Cincinnati, Ohio. "Garnothol." (For a Bactericide).....	6,693	Oct. 4	85	1
Dreydoppel, William, Philadelphia, Pa. "Dreydoppel's Mourning Starch." (For Black and Figured Goods).....	6,746	Dec. 20	85	1743
Dunlop, Clark W., New York, N. Y. "Dr. Dunlop's Marvoline (Oriental Oil)." (For Rheumatism, Neuralgia, &c).....	6,643	Aug. 16	84	987
Dunn, John, Jr., New Orleans, La. "Dunn's Rheumatic Liniment." (For a Medicine).....	6,708	Nov. 8	85	781
Eakens, J. E., Austin, Ill. "Excelsior Anti-Porrigo." (For a Medicine).....	6,695	Oct. 11	85	153
Elliott, Henry H., Washington, D. C. "Blue Point Raccoon Creek Rye Whiskey".....	6,605	June 21	83	1665
Elliott, Henry H., Washington, D. C. "Golden Slipper." (For Rye Whisky).....	6,647	Aug. 23	84	1147
Farm and Dairy Product Company, New York, N. Y. "Milkene." (For a Substance to Combine with Milk).....	6,616	June 28	83	1807
Flaccus Bros., Wheeling, W. Va. "Uncle Sam's." (For Catsup).....	6,697	Oct. 11	85	153
Flower, Harry J., Chicago, Ill. "May Flower Mandolin." (For Mandolins).....	6,711	Nov. 15	85	941
Ford, Frederick G., Philadelphia, Pa. "Ford's Remedies." (For Medical Compounds).....	6,642	Aug. 16	84	987
Frick, Robert J., Louisville, Ky. "Chira." (For a Medicine).....	6,587	May 10	83	749
Freter, Theo. H., Chicago, Ill. "Supreme Chief Ranger." (For Cigars).....	6,621	July 5	84	1
Gadsby, Fred H., Eau Claire, Wis. "Anti-Gon." (For a Medicine).....	6,726	Nov. 22	85	1083
Glanfield, George, Cleveland, Ohio. "Amicus Relief." (For Medicinal Remedy).....	6,628	July 19	84	315
Globe Match Company, Ipswich, Mass. "The Globe Match." (For Match Boxes or Cartons).....	6,759	Dec. 27	85	1909
Globe Match Company, Ipswich, Mass. "The Globe Match." (For Match Boxes or Cartons).....	6,760	Dec. 27	85	1909
Gottschalk Company, Baltimore, Md. "Social Session." (For Whisky).....	6,670	Sept. 13	84	1589
Gould, Charles W., New York, N. Y. "San Pablo Olives".....	6,578	May 3	83	599
Gould, Charles W., New York, N. Y. "Olive Label." (For Olives).....	6,589	May 17	83	927
Grebe, Jacob E., Jansen, Nebr. "Dr. Grebe's XXX Chicken Sarsaparilla and Cholera Cure." (For a Medical Compound).....	6,634	Aug. 2	84	653
Green, Asher and W., New York, N. Y. "Imperial Silver Polish".....	6,611	June 21	83	1665
Green, Woolf. (See Green, Asher and W.).....				
H. S. Lincoln Co., Boston, Mass. "Ranney's Golden Gate Bitters".....	6,583	May 10	83	749
H. W. Johns Manufacturing Company, New York, N. Y. "H. W. Johns Improved Asbestos Roofing." (For Asbestos Roofing and Roofing-Felts).....	6,654	Aug. 30	84	1287
Hall & Son, A. D., Boston, Mass. "Hall's Standard Refrigerators." (For Refrigerators).....	6,751	Dec. 20	85	1743
Halliday, Harry L. (See Bishop and Halliday.).....				
Hamilton Medicine Company, Cincinnati, Ohio. "Hamilton Medical Co's Remedies." (For Medicine).....	6,637	Aug. 9	84	813
Heron, Martin W., Memphis, Tenn. "Southern Comfort." (For a Beverage).....	6,588	May 10	83	749
Hewitt & Co., J. W., Stockton, N. J. "Dr. L. Reese's Brazilian Herbine." (For Medicine).....	6,590	May 17	83	927
Hirschhorn & Son, M., New York, N. Y. "The Morning Glory." (For Cigars).....	6,722	Nov. 15	85	941
Holland Coffee Company, Limited, New York, N. Y. "Hollands." (For Coffee).....	6,658	Sept. 6	84	1441
Holmes Drug Company, Baltimore, Md. "Healene." (For an Ointment).....	6,705	Oct. 25	85	459
Horton, Levi E., Avoca, N. Y. "Laureda." (For Hair-Tonic).....	6,561	Mar. 22	82	1693
Huchberger, Jacob O., New York, N. Y. "International Automatic Copying Book".....	6,625	July 19	84	315
Hygiene Milling Company, Seymour, Ind. "Hoosier Whole Wheat Pancake Flour." (For Pancakes).....	6,644	Aug. 16	84	987
J. Ottman Lithographing Company, New York, N. Y. "Porto Rico Special." (For Beer).....	6,672	Sept. 20	84	1733
James, William A., St. Louis, Mo. "White Rose Washing Fluid".....	6,620	June 28	83	1807
Johnson, Marshall R., Springfield, Mass. "Dr. Bennett's Malarial Cure and Blood Tonic".....	6,572	Apr. 19	83	301
Jones, William C., New Egypt, N. J. "Jones' Break Up." (For a Remedy for Rheumatism and Neuralgia).....	6,737	Dec. 13	85	1587
Joseph Campbell Preserve Company, Camden, N. J. "The Macmillan's Pure Fruit and Sugar Jams." (For Jams).....	6,707	Nov. 8	85	781
Kursheedt Manufacturing Company, New York, N. Y. "Kursheedt's Escorial Shirring." (For Fancy Dry Goods).....	6,614	June 28	83	1807
Kursheedt Manufacturing Company, New York, N. Y. "Chelsea Trimming." (For Fancy Dry Goods).....	6,639	Aug. 16	84	987
Lansing & Co., R. H., Chillicothe, Ohio. "American Baking Powder".....	6,576	May 3	83	599
Lash, S. Francis L., Los Angeles, Cal. "S. F. Lash's Sure Ant Destroyer." (For an Insecticide).....	6,725	Nov. 22	85	1083
Lee Broom and Duster Company, Davenport, Iowa, and Lincoln, Nebr. "Fairy Queen." (For Brooms and Dusters).....	6,612	June 21	83	1665
Lee Broom and Duster Company, Lincoln, Nebr. "Speckled Cracker Jack." (For Cigars).....	6,673	Sept. 20	84	1733
Livingston Laboratory, Limited, New York, N. Y. "Vuelta-Abajo Flavor." (For a Tobacco-Flavor).....	6,703	Oct. 25	85	459
Long Island Brewery, Brooklyn, N. Y. "Regal Lager." (For Beer).....	6,599	June 14	83	1517
Loomis, Frank C., Grand Rapids, Mich. "Ready for Use Rat Cake." (For Rat-Poison).....	6,675	Sept. 20	84	1733
Lucas, George B., Austin, Tex. "Lucas' Dengue Medicine." (For Yellow Fever and La Grippe).....	6,648	Aug. 23	84	1147
Lucchesi, Eugene, Boston, Mass. "Lucchesi's Cure for Rheumatism." (For Rheumatic Salve).....	6,674	Sept. 20	84	1733
Lutner Cigar Co., Cincinnati, Ohio. "The American Boy." (For Cigars).....	6,596	June 14	83	1517
M. Hyman Cigar and Importing Company, Denver, Colo. "Yellowstone Gems." (For Cigars).....	6,595	June 14	83	1517
Mahn, Godfrey S., Philadelphia, Pa. "A Night Off." (For Cigars and Similar Articles).....	6,562	Mar. 22	82	1693
Martin & Wm. H. Nixon Paper Co., Philadelphia, Pa. "Valkyrie Crimped Covers." (For Cover-Paper).....	6,569	Mar. 29	82	1840
McLoughlin Bros., Brooklyn, N. Y. "The Game of Jack and the Bean Stalk".....	6,570	Apr. 19	83	301
McLoughlin Bros., Brooklyn, N. Y. "The Game of Kris Kringle's Visits".....	6,571	Apr. 19	83	301
McLoughlin Brothers, New York, N. Y. "Game of Race Around the World." (For a Game).....	6,655	Sept. 6	84	1441
McLoughlin Brothers, New York, N. Y. "Game of the Robber Kitten." (For a Game).....	6,656	Sept. 6	84	1441
McLoughlin Brothers, New York, N. Y. "The Game of the Ten Little Niggers." (For a Game).....	6,657	Sept. 6	84	1441
McLoughlin Brothers, New York, N. Y. "Game of Naval War." (For a Game).....	6,660	Sept. 13	84	1589
McLoughlin Brothers, New York, N. Y. "The Merry Game of Old Maid." (For a Game).....	6,661	Sept. 13	84	1589
McLoughlin Brothers, New York, N. Y. "Game of War at Sea or Don't Give Up the Ship." (For a Game).....	6,662	Sept. 13	84	1589
McLoughlin Brothers, New York, N. Y. "The Game of the Little Volunteer." (For a Game).....	6,710	Nov. 15	85	941
McLoughlin Brothers, New York, N. Y. "Game of Day at the Circus." (For a Game).....	6,727	Nov. 29	85	1227
McLoughlin Brothers, New York, N. Y. "The Troublesome Donkeys." (For a Game).....	6,733	Dec. 13	85	1587
McLoughlin Brothers, New York, N. Y. "The Game of Going to the Klondike." (For a Game).....	6,734	Dec. 13	85	1587
McLoughlin Brothers, New York, N. Y. "The Game of Playing Department Store." (For a Game).....	6,735	Dec. 13	85	1587
Meek, Finger & Co., Marissa, Ill. "My Choice." (For Flour).....	6,688	Oct. 4	85	1
Meek, Finger & Co., Marissa, Ill. "Snow Drops." (For Flour).....	6,689	Oct. 4	85	1
Meek, Finger & Co., Marissa, Ill. "Our Calla." (For Flour).....	6,690	Oct. 4	85	1



*Alphabetical list of registrants of labels—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Meek, Finger & Co., Marissa, Ill. "Cream." (For Flour)	6,691	Oct. 4	85	1
Moran, John J., Washington, D. C. "Royal Cooline." (For a Powder)	6,750	Dec. 20	85	1743
Muscatine Oat Meal Company, Muscatine, Iowa. "5c or Nickel Oats." (For Rolled Oats or Oatmeal)	6,696	Oct. 11	85	153
Myers, Charles F., Washington, D. C. "Ger-American Herb Compound, the Great Blood Purifier, Liver and System Regulator"	6,594	June 7	83	1351
Nick, Mary E., Erie, Pa. "Nick's Health Elixir." (For Medicine)	6,749	Dec. 20	85	1743
Oregon Packing Company, Portland, Oreg. "Oregon Brand." (For Canned Goods)	6,704	Oct. 25	85	459
Oregon Packing Company, Portland, Oreg. "Preferred Stock." (For Canned Goods)	6,739	Dec. 13	85	1587
Pepsin Cream Baking Powder Company, Cleveland, Ohio. "Pepsin Cream Baking Powder"	6,582	May 10	83	749
Perkins & Co., Wm., New York, N. Y. "Old Whitehouse Whiskey." (For Whisky)	6,716	Nov. 15	85	941
Petersen, Thora, Chicago, Ill. "Court's Great Stomach and Nerve Tonic"	6,591	May 24	83	1073
Phillips, Lydia, Fort Plain, N. Y. "Eureka Hair Restorer"	6,600	June 14	83	1517
Phillips, R. D., Kearney, Nebr. "Phillips' Face Lotion." (For a Medicine for Skin Diseases)	6,692	Oct. 4	85	1
Pillsbury, Ulysses G., Derry Depot, N. H. "Pillsbury's Improved Self-Raising Prepared Flour"	6,573	Apr. 26	83	449
Plagemann & Co., H., San Francisco, Cal. "Louvre." (For Cigars)	6,732	Dec. 6	85	1409
Poong, Chen Yum, New Orleans, La. "Poong's Ready Cure." (For a Medicine)	6,659	Sept. 6	84	1441
Raynor, George A., New York, N. Y. "Raynor's Bug Meal"	6,584	May 10	83	749
Rold, William, Chicago, Ill. "Herbarium System Bitters"	6,601	June 14	83	1517
Saks, Andrew, New York, N. Y., and I. Saks, Washington, D. C. "Armor Strength Cheviots. Wear and Color Guaranteed. Saks and Company"	6,623	July 12	84	151
Saks, Andrew, New York, N. Y., and I. Saks, Washington, D. C. "Russian Navy." (For Serge)	6,624	July 12	84	151
Saks, Isadore. (See Saks, Andrew and I.)				
Sawyer, Frank P. (See Stein and Sawyer.)				
Schlenker, Joseph, Chicago, Ill. "Hirsau Cloister-Drops." (For Medicine)	6,622	July 5	84	1
Scotch Remedy Co., Wheeling, W. Va. "Creme De Menthé Balm." (For a Medicine)	6,617	June 28	83	1807
Shaw & Co., Charles W., Baltimore, Md. "Golden Rod." (For Syrup)	6,609	June 21	83	1665
Sheaffer, Alfred B., Philadelphia, Pa. "Dewey's Victory." (For Whisky)	6,606	June 21	83	1665
Sheaffer, Alfred B., Philadelphia, Pa. "Old Glory." (For Whisky)	6,607	June 21	83	1665
Shepherd, Charles H., New York, N. Y. "The Silent." (For a Device for Making Flushing-Tanks Noiseless)	6,593	May 31	83	1213
Silver Suds Manufacturing Co., Philadelphia, Pa. "Medicated French Tissue." (For a Preparation for Corns and the Like)	6,613	June 21	83	1665
Smith, Alfred W. (See Berrien and Smith.)				
Smith, Kline & French Company, Philadelphia, Pa. "Albumenized Food"	6,565	Mar. 29	82	1840
Snook, Charles W., New York, N. Y. "Greatworth's Teas and Coffees." (For Teas and Coffees)	6,650	Aug. 30	84	1287
Stein, Simon G., and F. P. Sawyer, Muscatine, Iowa. "S-S 5c." (For Rolled Oats and Oatmeal)	6,714	Nov. 15	85	941
Stein, Simon G., and F. P. Sawyer, Muscatine, Iowa. "S-S' Dime or 10c Oats." (For Rolled Oats and Oatmeal)	6,728	Nov. 29	85	1227
Stoddard, Gilbert & Co., New Haven, Conn. "Volunteer Flour." (For Flour)	6,729	Nov. 29	85	1227
Tomson & Co., P. C., Philadelphia, Pa. "Red Seal Laundry Soap." (For Soap)	6,666	Sept. 13	84	1589
Trappey, Bernard, Jeanerette, La. "Mexican Pepper Pulp." (For Pepper-Pulp)	6,740	Dec. 13	85	1587
Tryon, Albert H., New York, N. Y. "Death Sure Drops." (For an Insecticide)	6,619	June 28	83	1807
Tucker, Jane A., Boston, Mass. "Rose Leaf Balm." (For the Complexion)	6,579	May 3	83	599
Vest, Henry E., Chicago, Ill. "The Reform Self Binder"	6,629	July 26	84	513
Voytek, Joseph, Topeka, Kans. "Lightning Polish." (For a Furniture Polish)	6,681	Sept. 27	84	1875
Wähmann, Christian J., New York, N. Y. "Diana." (For Whisky)	6,586	May 10	83	749
Wallace & Vandersloot, York, Pa. "Our Calf Shoe"	6,615	June 28	83	1807
Ward-Mackey Company, Pittsburg, Pa. "Malted Milk Biscuit." (For Biscuit)	6,706	Nov. 1	85	615
Waters, Raper J., San Francisco, Cal. "California Souvenir." (For Playing-Cards)	6,701	Oct. 25	85	459
Weed, Edward P., Norwalk, Conn. "Dr. Many's Antiseptic Tooth Powder." (For Tooth-Powder)	6,665	Sept. 13	84	1589
Wirth, Henry R., Providence, R. I. "Select Stock." (For Beer-Bottles)	6,682	Sept. 27	84	1875
Wolf, Sayer & Heller, Chicago, Ill. "Holland Flour"	6,610	June 21	83	1665
Wolferman, Fred, Kansas City, Mo. "Good Things to Eat." (For Cured Meats)	6,723	Nov. 22	85	1083
Wookey, Louisa N., New York, N. Y. "The Rana Furniture Polish"	6,580	May 3	83	599
Worcester Corset Company, Worcester, Mass. "The Dowager." (For Corsets)	6,698	Oct. 18	85	293
Worms, Samuel, New York, N. Y. "Lygia Hair Balsam"	6,581	May 3	83	599
Zucker & Levett & Loebe Company, New York, N. Y. "Haas' Kremonia or Ammonia Cream." (For Cleansing Compounds)	6,651	Aug. 30	84	1287
Zucker & Levett & Loebe Company, New York, N. Y. "Haas' Kremonia or Ammonia Cream." (For Cleansing Compounds)	6,652	Aug. 30	84	1287
Zucker & Levett & Loebe Company, New York, N. Y. "Kremonia, Better than Ammonia." (For Cleansing Compounds)	6,754	Dec. 27	85	1909



PRINTS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
American Lithographic Company, New York, N. Y. "Proverb." (For Cigars)-----	59	Mar. 22	82	1693
American Lithographic Company, New York, N. Y. "Color Bearer." (For Cigars)-----	63	May 17	83	927
American Lithographic Company, New York, N. Y. "Just Out." (For Cigars)-----	64	May 24	83	1073
American Lithographic Company, New York, N. Y. "Royal Scot." (For Cigars)-----	68	May 31	83	1213
American Lithographic Company, New York, N. Y. "Sister in Chief." (For Cigars)-----	79	Oct. 4	85	1
American Waltham Watch Company, Waltham, Mass. "Waltham Watches are Carried All Over the World." (For Watches)-----	85	Nov. 22	85	1083
Davis, Spencer L., Chicago, Ill. "Army and Navy Puzzle." (For a Game)-----	78	Sept. 20	84	1733
Finesilver, Isaac, New York, N. Y. "Self Fastening Knobs for Pot Covers"-----	72	July 26	84	513
Fireside Game Company, Cincinnati, Ohio. "The Fireside Game Company." (For Games)-----	60	Mar. 29	82	1840
Freeland-Loomis Company, Boston, Mass. "The Continental Gold Bond." (For a Suit of Clothes)-----	65	May 24	83	1073
George Ziegler Company, Milwaukee, Wis. "Ziegler's Effervescent Soda Water Tablets"-----	71	July 19	84	315
Goode, Thomas F., Boydton, Va. "Buffalo Lithia Water"-----	66	May 24	83	1073
Hammond Typewriter Company, New York, N. Y. "Hammond Type Writer for All Nations and Tongues"-----	67	May 24	83	1073
Hudepohl & Kotte, Cincinnati, Ohio. "Golden Jubilee." (For Beer)-----	61	May 3	83	599
J. Mandleberg & Company, Limited, Manchester, England. "Mandleberg Waterproof." (For Clothing)-----	83	Oct. 25	85	459
Knapp, Joseph P., New York, N. Y. "My Lady's Glove"-----	69	June 7	83	1351
Magee Furnace Company, Boston, Mass. "The Best Flag." "The Best Bird." "The Best Goods on Earth." (For Ranges and Heaters)-----	92	Dec. 27	85	1909
McInnerney, Thomas H., New York, N. Y. "Dewey's Chewies." (For Confections)-----	70	June 21	83	1665
McLoughlin Brothers, New York, N. Y. "Toy Soldiers." (For a Game)-----	82	Oct. 25	85	459
McLoughlin Brothers, New York, N. Y. "Game of Robber Kittens." (For a Game)-----	87	Nov. 29	85	1227
McLoughlin Brothers, New York, N. Y. "Game of Ten Little Niggers." (For a Game)-----	88	Nov. 29	85	1227
McLoughlin Brothers, New York, N. Y. "Little Volunteer Game Card." (For a Game)-----	91	Dec. 13	85	1587
New York Consolidated Card Company, New York, N. Y. "American-Cuban." (For Playing-Cards)-----	74	Aug. 16	84	987
New York Consolidated Card Company, New York, N. Y. "How to Catch a Spaniard." (For Playing-Cards)-----	75	Aug. 23	84	1147
New York Consolidated Card Company, New York, N. Y. "Card Sayings." (For Playing-Cards)-----	86	Nov. 29	85	1227
Rogers, Edward S., Cleveland, Ohio. "English Woolen Mills Company." (For Men's Wearing-Apparel, Suits, Overcoats, and the Like)-----	76	Aug. 30	84	1287
Seiter & Kappes, New York, N. Y. "Gone to the Front." (For Plug-Tobacco)-----	73	Aug. 16	84	987
Standard Varnish Works, New York, N. Y. "Standard Varnish Works." (For Varnishes)-----	90	Nov. 29	85	1227
Tettenborn, Frederick, Cincinnati, Ohio. "Good Meal." (For Stoves and Ranges)-----	62	May 3	83	599
United States Playing Card Company, Cincinnati, Ohio. "The Nile Fortune Cards"-----	58	Mar. 8	82	1423
United States Playing Card Company, Cincinnati, Ohio. "Mystic Playing Cards." (For Playing-Cards)-----	77	Sept. 6	84	1441
United States Printing Company, Cincinnati, Ohio. "The Evil Eye." (For Envelops)-----	80	Oct. 25	85	459
United States Printing Company, Cincinnati, Ohio. "The Evil Eye." (For Letter-Heads)-----	81	Oct. 25	85	459
United States Printing Company, New York, N. Y. "Chromatic Disk." (For Toys)-----	84	Nov. 1	85	615
Wright & Taylor, Louisville, Ky. "Kentucky Taylor." (For Whisky)-----	89	Nov. 29	85	1227

DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette.	
			Volume.	Page.
Barstow, William S., Brooklyn, N. Y.; disclaimer filed by patentee and assignee. Electric metering apparatus-----	548,419	Jan. 7, 1898	82	191
Briggs, John N., Coeymans, N. Y.; disclaimer filed by patentee. Gages for teeth of ice plows and markers-----	598,240	Feb. 16, 1898	82	1061
Capps, Frank L., Newark, N. J.; disclaimer filed by assignee. Spring motors for phonographs-----	570,378	Feb. 1, 1898	82	753
Eastman, George, and William H. Walker, Rochester, N. Y.; disclaimer filed by assignee. Sensitive photographic film-----	358,848	Apr. 6, 1898	83	161
Firman, Leroy B., Chicago, Ill.; disclaimer filed by assignee. Multiple switchboard for telephone-exchange-----	252,576	Apr. 8, 1898	83	161
Jones, William R., Braddock, Pa.; disclaimer filed by assignee. Method of mixing molten pig-iron-----	404,414	June 4, 1889	82	1423
Platt, Clark M., Waterbury, Conn.; disclaimer filed by assignee. Button-----	568,546	June 6, 1898	83	1517
Stedman, Pascal H., Newport, R. I.; disclaimer filed by patentee and assignee. Voting machine-----	613,049	Dec. 14, 1898	85	1743
Welsbach, Carl Auer von, Vienna, Austria-Hungary; disclaimer filed by assignee. Incandescent gas-lamp-----	409,530	Aug. 20, 1889	82	1423



# ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Specification.	Drawing.	Volume.	Page.
Abdominal bandage	A. S. Markle	611,920	Oct. 4	564	137	85	112
Abdominal bandage	M. A. Watson	612,073	Oct. 11	860	209	85	178
Abdominal supporter	S. L. Fowler	606,410	June 28	2567	594	83	1897
Abdominal supporter	M. A. Watson	612,072	Oct. 11	858	208	85	178
Abrading mechanism	W. A. McCool	602,349	Apr. 12	1312	292	83	264
Abrading material. Roll of	T. E. Keavy	610,761	Sept. 13	1114	254	84	1673
Abrading-wheel	D. J. Lattimore	608,877	Aug. 9	1296	302	84	925
Abrasive appliance	O. F. Feix	601,133	Mar. 22	2672	611	82	1781
Abrasive hand-tools, files, &c. Carrier for	H. Focke	608,513	Aug. 2	608	136	84	776
Absorber	W. M. Mixer	600,159	Mar. 8	1027	231	82	1435
Accouchement-chair. Safety	S. Swain	597,473	Jan. 18	1769	409	82	377
Accumulator-plate	W. Majert	599,718	Mar. 1	71	16	82	1230
Accumulator-plate	I. Rosler	604,418	May 24	2194	492	83	1096
Acetanilid. Making	H. C. Fehrlin	615,829	Dec. 13	1109	-----	85	1643
Acetanilid. Purifying	H. C. Fehrlin	615,828	Dec. 13	1108	-----	85	1642
Acetone. Process of and apparatus for making	A. Bauschlicher	608,019	July 26	2776	591	84	593
Acetosulfanilate. Making alkaline	C. F. M. Schaerges and P. Schwarz	602,646	Apr. 19	1826	-----	83	375
Acetyl derivative of phenetidin	C. F. M. Schaerges and P. Schwarz	602,690	Apr. 19	1912	-----	83	392
Acetylene-generator	H. J. Bell	597,937	Jan. 25	2544	594	82	543
Acetylene-generator	E. N. Dickerson	603,678	May 10	797	175	83	772
Acetylene-producing apparatus	E. Kerbs and A. Armellini	599,241	Feb. 15	1988	472	82	1013
Acid alkyl esters. Making orthosulfamin-benzoic	B. R. Seifert	604,503	May 24	2364	-----	83	1125
Acid and charging water therewith. Apparatus for containing compressed carbonic	V. Durafort	610,127	Aug. 30	3587	832	84	1415
Acid and making same. Alkyl derivative of uric	E. Fischer	616,700	Dec. 27	2784	-----	85	2006
Acid and making same. Amidonaphtholdisulfo-	F. Bender	606,437	June 28	2624	-----	83	1910
Acid. Apparatus for making sulfuric	A. Staub	598,351	Feb. 1	481	115 116	82	693
Acid condenser. Nitric-	J. V. Skoglund	603,412	May 3	290	65	83	656
Acid. Ester of paraamidometaoxybenzoic	A. Einhorn	610,348	Sept. 6	401	-----	84	1517
Acid. Extracting tannic	H. M. Rau	601,170	Mar. 22	2739	-----	82	1793
Acid. Making aldehydo-benzoic	J. Koetschet	607,056	July 12	786	-----	84	172
Acid. Making hydrochloric	J. R. Wyde and J. W. Kynaston	605,369	June 7	605	134	83	1467
Acid. Making pyrocatechin-sulfonic	P. P. Monnet	604,066	May 17	1538	-----	83	948
Acid. Making salicylo-acetic	L. Limpach	611,014	Sept. 20	1566	-----	84	1778
Acid. Method of and apparatus for making durable fluids containing carbonic	H. Gronwald	611,732	Oct. 4	253	61	85	52
Acid. Obtaining alkyl-uric	E. Fischer	616,656	Dec. 27	2700	-----	85	1990
Acid. Producing orthotoluene sulfonic	W. Dieterle	602,682	Apr. 19	1896	-----	83	389
Acid receiver and pressure-regulating mechanism. Combined carbonic-	R. Winnikes	613,810	Nov. 8	1060	241	85	838
Acid sulfates of soda. Utilizing	R. E. Chatfield	605,697	June 14	1173	-----	83	1596
Acids. Apparatus for concentrating	E. Hart	601,466	Mar. 29	3285	742	82	1924
Acids. Apparatus for manufacturing	G. P. Adamson	601,457	Mar. 29	3272	739	82	1921
Acids. Condensation product from salicylic and gallic	O. Doebner	602,834	Apr. 26	2163	-----	83	455
Acids. Making aliphylamidonaphthol-sulfonic	I. Levinstein and C. Mensching	616,123	Dec. 20	1667	-----	85	1767
Acids of asymmetric rhodamins. Making sulfonic	H. Boedeker	615,791	Dec. 13	1052	-----	85	1631
Actinometer	J. A. Cheape	610,028	Aug. 30	3432	795	84	1382
Actinometer	G. F. Wynne	600,484	Mar. 8	1564	360	82	1536
Adding and recording apparatus	W. J. Ensforth	605,705	June 14	1186	273 274	83	1598
Adding-machine	C. C. Clifford	602,154	Apr. 12	985	216 217	83	198
Adding-machine	M. T. Fish	614,454	Nov. 22	2197	505	85	1091
Adding-machine	W. R. Gilbert	614,383	Nov. 15	2062	476	85	1053
Adding-machine	H. A. Herr	609,885	Aug. 30	3169	741 742	84	1331
Adding-machine	R. E. Kimball	605,789	June 14	1343	307 308 309	83	1627
Adding-machine	A. L. Platt	596,539	Jan. 4	136	31	82	29
Adding-machine	A. L. Platt	599,730	Mar. 1	89	21	82	1233
Adenin and making same	E. Fischer	607,029	July 12	711	-----	84	159
Adhesive compound	C. M. Higgins	610,182	Sept. 6	55	-----	84	1452
Adhesive compound and producing same	C. M. Higgins	604,584	May 24	2509	-----	83	1153
Adhesive compound and producing same	M. Hinzelmann	608,014	July 26	2323	-----	84	602
Adhesive-paste compound	C. M. Higgins	610,183	Sept. 6	59	-----	84	1452
Adhesives. Making	G. Eichelbaum	608,363	Aug. 2	349	76	81	725
Adjustable and extension table	H. H. Rottman	615,048	Nov. 29	3307	760	85	1317
Adjustable chair	J. M. Bulkley	601,035	Mar. 22	2520	573	82	1750
Adjustable chair	J. J. White	606,612	June 28	2925	678 679	83	1968
Adjustable folding, reading, and work table	A. Hanger	600,148	Mar. 8	1012	227	82	1432
Adjustable table	J. J. Anderson	608,094	July 26	2895	620	84	617
Adjustable table	J. Bell	598,895	Feb. 15	1399	337	82	902
Adjustable wrench	W. O. Parker	603,575	May 3	602	134	83	718
Advertising-arch	C. B. Dobson and E. G. Archibald	614,799	Nov. 22	2808	644 645	85	1205
Advertising-board	C. S. Hotchkiss	614,953	Nov. 29	3130	718	85	1285



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Advertising-card. Postal	T. Braley	614,695	Nov. 22	237	600	85	1171
Advertising device	A. Barrett	607,327	July 12	1295	277	84	267
Advertising device	A. A. Du Bois	613,503	Nov. 1	527	119	85	716
Advertising device	M. Duffner	603,057	Apr. 26	2331	575	83	525
Advertising device	J. D. Hefley	608,855	Aug. 9	1263	294	84	919
Advertising device	J. A. Hoff	615,023	Nov. 29	3256	747	85	1308
Advertising device	J. W. Lynch	615,358	Dec. 6	253	59	85	1463
Advertising device	G. A. Newkirk	616,438	Dec. 20	2269	529	85	1889
Advertising device	W. W. Smith and J. M. Isgrig	598,028	Jan. 25	2708	632	82	575
Advertising device	E. Steinhauser	598,396	Feb. 1	551	134	82	707
Advertising device	G. A. Stout	611,045	Sept. 20	1617	370	84	1788
Advertising device	L. J. Toffelmier and A. Heiron	614,037	Nov. 8	1417	324	85	909
Advertising device	E. Vedder	616,508	Dec. 27	2422	560	85	1938
Advertising device. Car	A. H. Hieatzman	616,235	Dec. 20	1908	441	85	1816
Advertising-machine	J. A. Marsh	613,166	Oct. 25	2763	651	85	576
Advertising or sign lamp	S. A. Bhise	603,251	May 3	14	4	83	603
Advertising-vehicle	R. H. Andrews	597,369	Jan. 11	1574	366	82	324
Advertising-vehicle	T. J. King	613,634	Nov. 1	734	171	85	756
Aerated-water fountain or engine	A. Brake and R. J. McKee	606,373	June 28	2498	580	83	1884
Aerated waters or beverages. Apparatus for making	J. Emringer and P. E. Marchand	611,616	Oct. 4	39	10	85	11
Aerating liquids or beverages. Apparatus for	E. Koenig and M. L. Erlanger	613,376	Nov. 1	283	65	85	672
Aerating water or other liquids in bottles. Apparatus employed in	E. Sterné	611,292	Sept. 27	2106	485	84	1901
Aerial conveyer	W. H. Gilman	609,273	Aug. 16	2076	493	84	1089
Aerial navigation	T. Leibbrand	600,878	Mar. 22	2262	516	82	1702
Aerial ship	T. J. Brown	610,843	Sept. 13	1258	290	84	1703
Agricultural boiler	C. Gorton	612,411	Oct. 18	1450	350	85	303
Agricultural implement	W. B. Leonard	612,133	Oct. 11	961	232	85	198
Agricultural implement	H. C. Milburn	602,033	Apr. 5	771	167	83	146
Agricultural implement. Combination	J. A. Lytle	615,726	Dec. 13	932	216	85	1608
Agricultural implements. Sulky or riding attachment for	G. W. Babcock	613,051	Oct. 25	2585	613	85	541
Agricultural sprinkler	J. Evans	612,321	Oct. 11	1296	313	85	259
Air and gas mixer	J. F. Barker	615,520	Dec. 6	568	130	85	1522
Air and gas mixer	G. S. Chambers	614,836	Nov. 29	2875	661	85	1233
Air and gas mixing apparatus	W. C. Clarke	602,828	Apr. 26	2157	489	83	454
Air and inflammable vapor. Apparatus for producing uniform mixtures of	L. Feil	596,658	Jan. 4	354	78, 79	82	70
Air and steam brake coupling. Automatic	W. J. Pugh	601,905	Apr. 5	543	112	83	103
Air. Apparatus for increasing efficiency of compressed	J. McIntyre	596,822	Jan. 4	646	148	82	125
Air-brake	C. L. Ansley	608,095	July 26	2896	620	84	617
Air-brake	W. H. Clowry	605,394	June 7	643	144	83	1475
Air-brake	M. Corrington	606,708	July 5	132	28	84	28
Air-brake	M. Corrington	608,030	July 26	2804	596	84	598
Air-brake	M. Corrington	616,288	Dec. 20	1992	464	85	1834
Air-brake	F. L. Guillemet	606,712	July 5	141	29	84	29
Air-brake	F. L. Guillemet	608,599	Aug. 9	770	177	84	828
Air-brake	F. L. Guillemet	608,600	Aug. 9	773	177	84	828
Air-brake	W. O. Gunckel	601,253	Mar. 29	2900	661	82	1851
Air-brake	W. T. Hamar	613,142	Oct. 25	2726	644	85	569
Air-brake	W. Hirst	607,371	July 12	1374	293	84	282
Air-brake	J. J. Nef	602,094	Apr. 12	873	189	83	177
Air-brake	J. J. Nef	609,041	Aug. 16	1633	390	84	1004
Air-brake	J. J. Nef	609,042	Aug. 16	1634	390	84	1004
Air-brake	H. F. Noyes	599,348	Feb. 22	2199	522	82	1074
Air-brake	H. F. Noyes	599,349	Feb. 22	2202	522	82	1075
Air-brake	F. W. Olin	598,678	Feb. 8	1049	253	82	818
Air-brake	H. S. Park	605,904	June 21	1580	363	83	1692
Air-brake	H. S. Park	605,905	June 21	1583	363	83	1692
Air-brake	H. S. Park	608,621	Aug. 9	807	187	84	834
Air-brake	H. S. Park	610,947	Sept. 20	1439	330	84	1735
Air-brake	H. S. Park	610,948	Sept. 20	1443	331	84	1735
Air-brake and steam-pipe coupling	G. D. Pettingell	597,220	Jan. 11	1324	309	82	273
Air-brake apparatus. Automatic cut-off for	W. T. Hamilton	613,034	Oct. 25	2548	606	85	534
Air-brake. Automatic	W. G. MacLaughlin	612,778	Oct. 18	2107	500	85	427
Air-brake controller	J. C. Wands	604,244	May 17	1867	418	83	1012
Air-brake coupling	J. C. Look	598,347	Feb. 1	476	113	82	692
Air-brake coupling	J. C. Look	598,348	Feb. 1	478	114	82	692
Air-brake coupling	J. T. Perkins	598,887	Feb. 8	1383	333	82	883
Air-brake-coupling safety appliance	W. T. Hamar and C. G. Arthur	600,641	Mar. 15	1851	423	82	1611
Air-brake. Locomotive	W. P. Alter	612,149	Oct. 11	984	298	85	202
Air-brake pump	N. A. Christensen	612,963	Oct. 25	2445	582	85	513
Air-brake. Railway-train	J. F. Voorhees	615,326	Dec. 6	176	46	85	1447
Air-brake release-rod	R. H. Catlett	597,814	Jan. 25	2347	548	82	560
Air-brake safety apparatus	A. Kholodkowski	600,537	Mar. 15	1694	387	82	1531
Air-brake. Street-car	C. A. Gray	599,421	Feb. 22	2353	555	82	1177
Air cleaning and cooling device	J. McCreery	599,080	Feb. 15	1719	408	82	940
Air-compressing apparatus for vessels	E. Bottini	604,962	May 31	3150	724	83	1295
Air-compressing machine	P. Cramer	600,258	Mar. 8	1189	269	82	1466
Air-compressor	O. H. Brigham	604,717	May 31	2756	630	83	1219



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Air-compressor	C. N. Dutton	609,087	Aug. 16	1705	406	84	1017
Air-compressor	C. N. Dutton	609,088	Aug. 16	1710	407	84	1018
Air-compressor	F. M. Graham. (Reissue)	11,654	Mar. 8	1627	371	82	1545
Air-compressor	F. E. Heston and R. B. Harvison	608,964	Aug. 9	1457	345	84	955
Air-compressor	J. H. Hoalley	598,149	Feb. 1	127	29	82	629
Air-compressor	F. Richards	606,428	June 28	2608	601	83	1906
Air-compressor	T. H. Roberts	597,223	Jan. 11	1332	311	82	274
Air, &c. Compressor for	H. C. Sergeant	602,877	Apr. 26	2225	504	83	468
Air-compressor governor	C. Cummings	603,425	May 3	314	71	83	660
Air-compressor governor	S. H. Libby and W. B. Potter	613,692	Nov. 8	821	188	85	793
Air-compressor governor-valve	N. A. Christensen	598,283	Feb. 1	382	89	82	674
Air-compressor. Hot-air	C. A. Anderson and E. A. Erickson.	601,031	Mar. 22	2514	572	82	1749
Air-compressor. Hydraulic	A. G. Noack and L. S. Grossman	606,732	July 5	170	38	84	35
Air-compressor. Hydraulic	A. G. Noack and L. S. Grossman	606,733	July 5	173	38, 39	84	35
Air-compressor. Hydraulic	W. F. Stark	602,247	Apr. 12	1143	251	83	230
Air-compressor. Tide-water	D. Becker	610,790	Sept. 13	1173	270	84	1685
Air-compressor valve	F. Richards	602,473	Apr. 19	1531	348	83	321
Air-compressor valve-gear	E. T. Sederholm	607,195	July 12	1049	227	84	219
Air-compressors. Air-inlet valve for	J. G. Leyner	610,608	Sept. 13	861	197	84	1622
Air-compressors. Automatic switch for regulating electric	M. Moseley and P. Funck	608,340	Aug. 2	318	70	84	719
Air disk brake. Compressed-	M. E. Campany	598,766	Feb. 8	1192	287	82	845
Air distributor or spreader	J. Jauch	603,105	Apr. 26	2627	597	83	543
Air-engine	M. Schmidt	615,992	Nov. 29	3202	736	85	1298
Air engine. Compressed-	L. T. Gibbs	604,745	May 31	2798	640	83	1227
Air escape or vent. Foul-	J. McCreery	607,264	July 12	1187	254	84	245
Air goods	A. A. Young	616,816	Dec. 27	2977	694	85	2046
Air. Heater for expanding	J. Heimlich	614,717	Nov. 22	2671	609	85	1177
Air heating and agitating apparatus	E. F. Porter	614,275	Nov. 15	1863	430	85	1014
Air. Machine for separating dust from	P. Van Gelder	602,964	Apr. 26	2388	544	83	499
Air. Means for humidifying	D. Hall and J. H. Kay	602,745	Apr. 19	1997	452	83	408
Air-pressure system. Alternating	W. H. Barr	615,668	Dec. 13	835	193	85	1589
Air-separator	G. S. Emerick	609,537	Aug. 23	2552	597	84	1197
Air-ship	C. E. Hite	607,240	July 12	1147	244	84	237
Air-ship	A. Koehler	605,438	June 7	719	162	83	1491
Air-ship	F. R. Merritt	615,569	Dec. 6	654	150	85	1539
Air-ship	O. L. Smith	612,808	Oct. 18	2169	516	85	440
Air-tight vessel	J. F. Davenport	615,478	Dec. 6	491	114	85	1507
Alarm:							
See Automatic alarm.	Gage-alarm.						
Bicycle-alarm.	Leak and fire alarm.						
Burglar-alarm.	Loom slack-alarm.						
Burglar and fire alarm.	Low-water alarm.						
Door barricade-alarm.	Railway signal-alarm.						
Fire-alarm.	Safe-alarm.						
Fire and burglar alarm.	Signal-alarm.						
	Skate-alarm.						
	Speed-indicating alarm.						
	Time-alarm.						
Alarm	C. A. Deal	613,877	Nov. 8	1167	268	85	859
Alarm	I. B. Frazee	603,898	May 10	1195	270	83	849
Alarm device	W. E. Downing	596,989	Jan. 11	933	221	82	198
Alarm for water-containing vessels	J. O'Connor and C. A. Turner	598,572	Feb. 8	868	208	82	785
Alarm-gage. Electrical	J. Hackney	600,866	Mar. 22	2240	510	82	1698
Alarm-lock	E. N. Case	611,212	Sept. 20	1921	444	84	1845
Alarm-lock	E. N. Case	611,992	Oct. 4	693	168	85	136
Alarm-lock	W. H. Thompson	597,207	Jan. 11	1306	305	82	269
Alarm system	C. Coleman	606,405	June 28	2556	592	83	1894
Alarm system	C. Coleman	607,407	July 12	1447	307	84	296
Alarm system. Electric	A. Ovenden	606,076	June 21	1929	442	83	1753
Album-support	G. Schwab	598,818	Feb. 8	1268	307	82	860
Albumen preparation soluble in water	F. Bauer and A. Busch	601,995	Apr. 5	710	83	83	134
Alcohol and yeast. Producing	J. C. Boot	600,708	Mar. 15	1979	82	82	1635
Alcohol. Apparatus for manufacturing wood-	M. F. Quinn	611,508	Sept. 27	2513	580	84	1976
Alcohol. Manufacture of	H. W. Wiley	615,376	Dec. 6	296	68	85	1470
Alcohol. Manufacturing ethylic	A. M. Villon	608,652	Aug. 9	870	200	84	846
Aldehydes. Making aromatic	P. P. Monnet	613,460	Nov. 1	444	85	701	
Alimentary products. Producing	J. H. Kellogg	604,493	May 24	2348	83	1122	
Alizarin derivative. Dark-green	R. E. Schmidt	603,659	May 10	763	83	765	
Alkali metals from their chlorids. Apparatus for producing	P. Danckwardt	607,506	July 19	1805	375	84	389
Alloy	F. A. Cothias. (Reissue)	11,660	Apr. 19	2139	83	436	
Alloy. Aluminium	W. A. McAdams	611,016	Sept. 20	1576	84	1780	
Alloy for soldering	H. Griffith, Jr., A. E. Kemplen, and V. Coppée.	616,613	Dec. 27	2599	85	1970	
Alloy. Manufacture of chrome-steel	C. Y. Wheeler and F. L. Slocum	597,869	Jan. 25	2439	82	524	
Alloy. Metallic	G. R. Evans	601,338	Mar. 29	3071	82	1884	
Alloy of iron and titanium and producing it	A. J. Rossi	609,466	Aug. 23	2420	568	84	1174
Alloys of copper and iron. Manufacture of	J. Burns	616,599	Dec. 27	2567	85	1964	
Alloys of titanium. Manufacturing	A. J. Rossi	609,467	Aug. 23	2424	84	1174	
Alloying iron and hydrogen. Process of and apparatus for	G. W. Gesner	604,580	May 24	2503	569	83	1151
Almond-huller	J. E. Beach	611,765	Oct. 4	296	71	85	60
Almond-huller	W. G. Read	613,867	Nov. 8	1150	264	85	855
Almond huller and separator	D. and H. H. Methven	612,744	Oct. 18	2042	485	85	415
Aluminates. Making alkaline	D. A. Péniaikoff	603,657	May 10	761	466	83	765



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Aluminates. Making alkaline	F. Raynaud	612,364	Oct. 11	1371		85	275
Aluminium. Purification of	P. E. Placet	600,268	Mar. 8	1213		82	1470
Aluminium. Purifying and hardening	H. Griffith, Jr., A. E. Kemplen, and V. Coppée.	612,161	Oct. 11	1014		85	208
Aluminium-reducing pot and means for tapping same.	A. Dickey	602,575	Apr. 19	1696	385	83	350
Aluminium-sodium chlorid. Making	F. Raynaud	599,111	Feb. 15	1775		82	974
Aluminium sulfid and making same.	D. A. Péniaffoff	606,576	June 28	2867		83	1958
Aluminium sulfid and reducing same to metallic state. Producing	H. S. Blackmore	605,380	June 7	621		83	1470
Aluminium sulfid. Making	H. S. Blackmore	605,378	June 7	619		83	1470
Aluminium sulfid. Making	H. S. Blackmore	605,812	June 14	1384	317	83	1635
Amalgam. Apparatus for washing alkali	H. C. F. Störmer	614,353	Nov. 15	2012	464	85	1042
Amalgam-washing apparatus	H. C. F. Störmer	600,211	Mar. 8	1107	252	82	1451
Amalgamating-pan	E. H. T. Plant and S. Dellow	611,506	Sept. 27	2510	579	84	1975
Amalgamator	I. Anderson	611,346	Sept. 27	2199	508	84	1917
Amalgamator	J. A. Hedge	596,968	Jan. 4	893	210	82	174
Amalgamator	J. D. Maclay	614,965	Nov. 23	3147	723	85	1288
Amalgamator	J. D., and C. H. McKelvey	613,706	Nov. 8	858	198	85	801
Amalgamator	N. P. Nelson	609,624	Aug. 23	2729	636	84	1231
Amalgamator and distributor	J. H. Rae	613,718	Nov. 8	879	208	85	804
Amalgamator and distributor	J. H. Rae	615,046	Nov. 29	3303	759	85	1316
Amalgamator and separator. Centrifugal	C. L. Garland, J., and S. E. Murray	604,978	May 31	3176	732	83	1300
Amalgamator for gold-saving	L. C. Park	614,975	Nov. 29	3168	727	85	1292
Amalgams, &c. Electrolytic production of	E. and G. Andreoli	605,835	June 21	1451	333	83	1667
Ambulance and tourist-wagon. Combined	C. H. W. Larrabee	615,396	Dec. 6	343	80, 81	85	1479
Amidins. Making	E. Täuber	596,797	Jan. 4	604		82	116
Ammeter for alternating electric currents.	W. A. Layman	616,339	Dec. 20	2088	486	85	1852
Ammonia and waste products from garbage. Process of and apparatus for recovering	J. B. Taylor and H. V. Walker	603,668	May 10	779	172	83	768
Ammonia. Producing	H. Mehner	607,943	July 26	2625	557	84	561
Ammonium nitrate. Making	R. N. Lennox	597,006	Jan. 11	964		82	204
Ammonium salts from refuse. Apparatus for recovering	S. S. Pridham	609,122	Aug. 16	1795	428	84	1032
Ammonium sulfate. Apparatus for making	W. S. Richardson	598,488	Feb. 1	712	172	82	738
Amusement device	W. J. Gordon	599,420	Feb. 22	2346	554	82	1105
Anchor	L. M. Bowers	602,719	Apr. 19	1957	445	83	401
Anchor. Expansion	D. C., W. R., and M. R. Seaman	610,308	Sept. 6	321	69	84	1503
Anchor for securing jetties, &c.	G. S. Baillie	601,407	Mar. 29	3185	719	82	1905
Anchor. Stockless	G. H. Burrows	605,076	June 7	15	4, 5	83	1356
Angle-bars. Device for bending	D. Brennan, J. R. Wirley, and E. Goldthwait.	608,829	Aug. 9	1211	283	84	909
Angle-former	C. Weber	600,699	Mar. 15	1964	448	82	1632
Angling device	J. J. Dempsey	605,538	June 14	864	203	83	1539
Animal-catcher	W. E. Tidler	611,744	Oct. 4	269	64	85	55
Animal-destroyer	O. J. Merritt	605,890	June 21	1563	360	83	1688
Animal-dipping tank	E. A. Steen	606,946	July 5	541	119	84	108
Animal-exterminator	C. K. Myers	612,006	Oct. 4	721	173	85	141
Animal jaw-trap	C. R. Willing	616,172	Dec. 20	1775	411	85	1790
Animal-shears	B. P. Clark	600,513	Mar. 15	1644	375	82	1572
Animal-shears	H. V. Dunn	613,978	Nov. 8	1328	302	85	891
Animal-tie	C. M. Wood	599,579	Feb. 22	2649	620	82	1163
Animal-trap	T. H. Bradish	596,800	Jan. 4	608	140	82	117
Animal-trap	J. F. Class	613,558	Nov. 1	611	141	85	732
Animal-trap	J. A. Cooper	612,798	Oct. 18	2145	509	85	436
Animal-trap	J. Davidson	606,052	June 21	1881	433	83	1745
Animal-trap	J. B. Davis	611,749	Oct. 4	275	66	85	56
Animal-trap	J. L. Farley	609,338	Aug. 16	2193	517	84	1111
Animal-trap	I. Frank	609,184	Aug. 16	1895	451	84	1056
Animal-trap	W. C. Hooker	615,851	Dec. 13	1144	267	85	1649
Animal-trap	E. S. Hotchkiss	615,218	Nov. 29	3654	838	85	1384
Animal-trap	E. S. Hotchkiss	615,219	Nov. 29	3656	838	85	1385
Animal-trap	J. Knoop	607,691	July 19	2134	448	84	449
Animal-trap	S. L. Long	616,242	Dec. 20	1918	444	85	1818
Animal-trap	J. M. Mast	600,156	Mar. 8	1023	230	82	1434
Animal-trap	W. and J. W. McDonough	599,006	Feb. 15	1598	379	82	940
Animal-trap	C. F. Nelson	612,866	Oct. 25	2292	546	85	481
Animal-trap	E. Piggott	613,304	Nov. 1	141	33	85	644
Animal-trap	A. Plahn	598,438	Feb. 1	637	157	82	724
Animal-trap	A. T. Sullivan	599,407	Feb. 22	2323	549	82	1100
Animal-trap	T. E. Troutt	608,493	Aug. 2	573	128	84	769
Animal-trap	G. E. Weeden	613,916	Nov. 8	1223	279	85	870
Animal-trap. Automatic self-setting	J. J. Shelton	609,561	Aug. 23	2593	606	84	1205
Animal-trap-setting device	D. Luye	606,566	June 28	2849	657	83	1954
Ankle-brace	J. W. and J. H. Frerich	609,538	Aug. 23	2554	597	84	1198
Ankle-brace	W. C. Huff	607,243	July 12	1152	246	84	238
Ankle-joint	A. C. Wright	608,164	July 26	3012	647	84	638
Annealing-box	F. Schwedtmann	614,768	Nov. 22	2757	630	85	1195
Annealing-box	R. A. Wilson	613,001	Oct. 25	2504	596	85	525
Annealing-pot	W. P. Doulin and F. W. Raymond	612,713	Oct. 18	1991	472	85	405
Annunciator	O. Wiederhold	612,885	Oct. 25	2327	554	85	488
Annunciator and spring-jack. Combined	G. W. Sutton	604,340	May 17	2056	460	83	1049
Annunciator. Self-restoring	J. Steiner	598,276	Feb. 1	365	85	82	670
Ant-trap	C. W. Selvidge	602,410	Apr. 12	1418	320	83	285
Anticreosoting device	W. Wewers	615,600	Dec. 6	707	163	85	1551
Antirattler	G. H. Marker	599,184	Feb. 15	1892	448	82	994
Antirattler and shaft-coupling	E. Tarbox, Jr.	609,375	Aug. 16	2246	531	84	1122
Antirefilling device	J. H. Poole	606,026	June 21	1831	422	83	1735
Antitoxin and making same. Diphtheria	E. Behring	606,042	June 21	1862		83	1741
Anvil attachment	J. A. Guiles	610,137	Aug. 30	3601	836	84	1417
Anvil attachment for repairing horseshoe-calks	W. Duffy	609,014	Aug. 16	1572	374	84	993
Anvil clamp attachment	M. V. Nichols	607,126	July 12	925	200	84	197



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Anvil, vise, and drill. Combined	O. H. Hanson	612,415	Oct. 18	1459	352	85	305
Anvils. Welding or swaging attachment for	O. O. Dinsmore and A. M. Ireland	603,022	Apr. 26	2479	563	83	515
Applicator	C. P. Brown	605,386	June 7	630	141	83	1473
Apron fastener. Rain-	A. F. Brandenburg	601,334	Mar. 29	3066	691	82	1883
Aquarium	P. Smith	597,249	Jan. 11	1371	320	82	282
Arc-light regulator	W. J. Kelly	616,111	Dec. 20	1640	383 384	85	1763
Arch-stone	O. Förster	604,658	May 24	2626	601	83	1176
Arm-rest	L. Barr	607,675	July 19	2111	441	84	445
Arm-rest	G. C. Eckman	599,096	Feb. 15	1742	413	82	969
Arm-rest. Desk	C. H. Reynolds	598,617	Feb. 8	937	226	82	799
Armature-coils. Former for winding	A. L. Riker	604,843	May 31	2953	676	83	1257
Armature-coils. Mold for forming	W. K. Bassford, Jr	616,519	Dec. 27	2442	564 565	85	1942
Armature for dynamo-electric machines	E. H. Anderson and D. P. Thomson	608,277	Aug. 2	184	44	84	691
Armature-winding	A. L. Riker	612,977	Oct. 25	2466	588	85	517
Armature-winding machine	C. Eickmeyer	597,816	Jan. 25	2349	548 549	82	506
Armor-plates, &c. Apparatus for applying heat to surfaces of	T. J. Tresidder	607,777	July 19	2276	481	84	477
Armor. Protective covering for ships'	J. L. Matthews	604,940	May 31	3119	717	83	1289
Artery-clamp	C. E. Perry	597,913	Jan. 25	2508	587	82	536
Artillery field-mount	W. H. Bevans	605,377	June 7	617	138 139	83	1470
Ash-pits. Discharge-valve for	J. Sedlmayer	611,516	Sept. 27	2527	583	84	1979
Ash-receiver	J. Sedlmayer	600,382	Mar. 8	1385	316	82	1504
Ash remover and sifter	E. W. Campagna	599,384	Feb. 22	2277	538	82	1091
Ash-receiver. Safety	S. M. Smith	601,845	Apr. 5	444	89	83	83
Asparagus-holder	C. H. Oertle	602,097	Apr. 12	880	191	83	178
Aspersorium and incense-holder. Combined pocket.	A. Szabó	609,308	Aug. 16	2143	508	84	1101
Asphalt, &c. Apparatus for manufacturing objects from compressible material, such as	A. Pieper	615,573	Dec. 6	663	152	85	1542
Asphalt-cutter	G. Hardy	615,698	Dec. 13	885	205	85	1599
Asphalt from crude petroleum and petroleum-tar. Obtaining	C. B. Forward and J. M. Davidson	611,620	Oct. 4	46	-----	85	12
Asphalt. Manufacture of	A. Hannemann	598,147	Feb. 1	125	-----	82	626
Asphalt. Melting-kettle for preparing	F. A. Hetherington	606,011	June 21	1804	415	83	1731
Asphalt paving materials. Portable apparatus for preparing	C. E. Foster	616,834	Dec. 27	3004	700	85	2052
Asphalt. Treating	W. S. Wilkinson	597,892	Jan. 25	2472	-----	82	530
Asphaltum and manufacturing same	J. A. Dubbs	608,372	Aug. 2	362	-----	84	727
Assay-furnace	W. Hoskins	596,707	Jan. 4	450	102	82	88
Assay-furnace. Portable	J. G. IIs.	606,149	June 21	2061	473	83	1779
Assayer's furnace	J. J. Lonergan and A. C. Calkins	608,883	Aug. 9	1304	304	84	927
Assaying apparatus	W. H. Adams, the Younger	611,986	Oct. 4	676	165	85	132
Assurance apparatus. Coin-freed	J. Moss and C. G. Beechey	612,784	Oct. 18	2123	504 505	85	431
Atomizer	C. M. Blackman	613,222	Oct. 25	2882	679	85	599
Atomizer	A. M. Foster	613,413	Nov. 1	368	84	85	685
Atomizer	W. S. Frost	602,070	Apr. 12	834	181	83	169
Atomizer	I. Q. Gurnee	601,616	Mar. 29	3520	802	82	1972
Atomizer	R. W. Prescott	606,240	June 28	2249	520	83	1834
Atomizer and syringe. Combined	I. Q. Gurnee	601,564	Mar. 29	3441	781	82	1937
Atomizer. Steam-	B. W. E. Griep	614,099	Nov. 15	1529	350	85	952
Audiphone	J. Clayton	612,639	Oct. 18	1862	440	85	381
Audiphone	A. Ross	613,606	Nov. 1	693	160	85	748
Audiphone	M. K. Turner	597,037	Jan. 11	1008	238	82	212
Auger	A. Y. Pearl	606,575	June 28	2862	660	83	1957
Auger	H. G. Watrous	606,319	June 28	2395	555	83	1865
Auger and cutter. Combined	L. H. Sholder	605,614	June 14	1015	234	83	1566
Auger-bit	S. Smith	597,750	Jan. 25	2226	518	82	483
Auger. Earth-	A. F. Bauer	601,116	Mar. 22	2647	604	82	1776
Auger. Earth-	J. Carter and W. Richmond	598,856	Feb. 8	1333	322	82	873
Auger. Earth-	J. G. Jordan	600,875	Mar. 22	2254	514	82	1701
Auger-handle	F. Feeney	598,915	Feb. 15	1439	345	82	909
Auger-handle	T. A. Gannoe	605,781	June 14	1331	305	83	1625
Auger. Packing-	J. B. Cornwall	604,971	May 31	3162	728	83	1298
Auger. Post-	J. Evans	605,411	June 7	683	151	83	1484
Auger. Post-hole	J. A. Green	596,587	Jan. 4	225	49	82	45
Auger-twisting machine	W. M. Hamilton	611,120	Sept. 20	1765	404 405	84	1816
Autographic register	G. A. Huewe	598,933	Feb. 15	1471	351 352	82	915
Autographic register	A. Krauth	611,259	Sept. 27	2028	468	84	1886
Autographic register	L. Rauh and D. McNeal	615,306	Dec. 6	148	39	85	1442
Autographic register	O. C. Reeves	609,465	Aug. 23	2419	567 568	84	1173
Autoharp	J. E. Eckert	604,914	May 31	3086	709	83	1282
Autoharp	F. G. McPherson	596,906	Jan. 4	779	184	82	152
Autoluminous composition	A. Syssoyeff and L. Braly	606,693	July 5	106	-----	84	23
Automatic alarm for protecting crops, &c	L. L. Cubbedge	606,517	June 28	2741	633	83	1933
Automatic brake	A. McGlathery	598,000	Jan. 25	2665	622	82	567
Automatic can	F. Lowe	606,931	July 5	520	114	84	103
Automatic gate	J. E. Gibbs	614,382	Nov. 15	2060	475	85	1052
Automatic gate	L. M. Hawes	597,237	Jan. 11	1349	316	82	278
Automatic gate	J. C. Laporte	604,402	May 24	2160	485	83	1089
Automatic gate	M. C. Mason	597,995	Jan. 25	2656	620	82	565
Automatic heater and sterilizer	A. G. Waterhouse	615,932	Dec. 13	1298	303	85	1677
Automatic-lever switch	J. F. Gaylord	605,313	June 7	487	109	83	1444
Automatic-locking switch	W. H. Jackson	609,436	Aug. 23	2357	556	84	1162
Automatic lubricator	A. A. De Witt	602,128	Apr. 12	928	203	83	188
Automatic regulator	H. E. Hunt	616,842	Dec. 27	3025	703	85	2056
Automatic sprinkler	C. W. Kersteter	597,115	Jan. 11	1159	272	82	242
Automatic switch	P. Boch	601,049	Mar. 22	2539	577 578	82	1755
Automatic switch	P. S. Rogers	601,045	Mar. 22	2534	576	82	1754



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Automatic switch	F. W. Ross	606,392	June 28	2532	587	83	1890
Automatic switch	M. N. Shufflebarger	599,808	Mar. 1	253	57	82	1261
Automatic switch	N. B. Zuccarello	599,090	Feb. 15	1734	411	82	967
Automatically-opening gate or door	C. A. Elias	613,815	Nov. 8	1066	242	85	840
Awl	N. D. Chase	601,123	Mar. 22	2657	607	82	1778
Awl. Sewing-	G. F. Summers	596,554	Jan. 4	162	37	82	53
Awl. Sewing-	G. F. Summers	608,926	Aug. 9	1399	330	84	944
Awning	C. Bergeron	610,020	Aug. 30	3422	792	84	1380
Awning	E. Billburgh	605,625	June 14	1048	241	83	1572
Awning	J. D. Hogan	603,691	May 10	820	181	83	777
Awning	J. W. Richards	602,772	Apr. 19	2037	461	83	416
Awning	F. C. Tabler	611,872	Oct. 4	488	118	85	97
Awning, Adjustable	W. E. Hettrick	615,174	Nov. 29	3536	813	85	1362
Awning and boat-cover. Combined	A. Seymour	600,272	Mar. 8	1219	277	82	1471
Awning attachment	J. J. Price	600,270	Mar. 8	1216	276	82	1471
Awning-fixture	J. Sullivan	610,101	Aug. 30	3541	821	84	1405
Awning-frame	N. C. Decker	600,306	Mar. 8	1266	288	82	1480
Awning-frame	J. W. Zimmerman	607,108	July 12	890	192	84	191
Awning-protector	J. R. Powell	608,077	July 26	2870	614	84	612
Awning. Window-	J. F. Sargent	604,087	May 17	1582	354	83	957
Awnings, &c. Fastening device for	W. F. Maulick	611,737	Oct. 4	260	62	85	53
Ax	E. J. Jenkins	605,878	June 21	1539	354	83	1683
Ax	O. Ohlson	614,747	Nov. 22	2724	621	85	1189
Ax	H. P. Schwartz	604,943	May 31	3122	718	83	1290
Ax-handle clip	H. Zopfi	614,525	Nov. 22	2319	531	85	1113
Ax safety-guard	W. L. Marble	604,624	May 24	2572	586	83	1165
Axes, hammers, &c., to their handles. Means for securing heads of	F. Baker	611,092	Sept. 20	1712	393	84	1807
Axle	F. M. Arnold	609,925	Aug. 30	3232	757	84	1343
Axle	J. F. Sosnowski	598,717	Feb. 8	1121	270	82	832
Axle	W. H. Waldron	609,255	Aug. 16	2050	487	84	1083
Axle and adjustable sand-band. Vehicle-	W. Z. Marsh	615,869	Dec. 13	1169	273	85	1654
Axle-arm. Lubricating	E. D. Ives	614,656	Nov. 22	2558	582	85	1156
Axle. Ball-bearing	C. E. Roberts	598,535	Feb. 8	800	192	82	772
Axle-box. Ball-bearing	C. B. Hobron	607,241	July 12	1149	245	84	237
Axle box. Car-	E. J. Hunt	610,056	Aug. 30	3474	806	84	1391
Axle-box dust-guard	F. Rattek	610,147	Aug. 30	3612	839	84	1420
Axle-box dust-guard. Car-	C. G. Potter	609,121	Aug. 16	1794	427	84	1032
Axle-box lid. Car-	N. H. Davis	597,800	Jan. 25	2328	543 544	82	502
Axle boxes. Dust-guard for car-	J. S. Patten	606,232	June 28	2232	513	83	1831
Axle. Car-	R. M. Hasbrouck	602,539	Apr. 19	1640	374	83	341
Axle-cutter	E. W. and G. E. Maier	612,743	Oct. 18	2040	485	85	415
Axle for artillery or gun carriages	E. L. Thompson	612,147	Oct. 11	982	238	85	202
Axle for corn-planters. Divided and bent	W. P. Hunt and C. P. A. Friberg	601,342	Mar. 29	3078	695	82	1885
Axle for cycles or like vehicles	E. B. Killen	612,735	Oct. 18	2026	481	85	412
Axle-gage	J. F. Dunigan	605,863	June 21	1513	348	83	1677
Axle journal-box. Car-	G. W. Lewis and L. C. Godwin	599,944	Mar. 1	505	114	82	1308
Axle. Lubricating-	G. M. Mather	597,910	Jan. 25	2504	586	82	535
Axle. Lubricating-	J. G. Obermier	610,195	Sept. 6	79	16	84	1455
Axle-lubricator	G. W. Butler	615,801	Dec. 13	1064	250	85	1633
Axle-lubricator	H. J. Faust	609,423	Aug. 23	2343	552	84	1159
Axle lubricator Car-	S. Austin	601,867	Apr. 5	481	98	83	89
Axle lubricator. Car-	E. W. Hancock	608,329	Aug. 2	296	65	84	714
Axle lubricator. Car-	F. S. and S. J. Smith	609,844	Aug. 30	3099	722	84	1317
Axle lubricator, dust-guard, and hot-box indicator. Combined car-	J. S. Patten	607,874	July 26	2506	532	84	538
Axle. Mine-car	A. Conwell, Z. H. Tinklepaugh, and P. Sheridan	614,444	Nov. 22	2184	501	85	1089
Axle-repairing apparatus	W. A. Hammer	603,636	May 10	727	163	83	758
Axle. Safety-	T. N. Crook	602,308	Apr. 12	1250	275	83	251
Axle. Self-oiling	B. Jassen	605,826	June 14	1416	323	83	1641
Axle setting and straightening tool	B. F. Smith	608,528	Aug. 2	636	143	84	781
Axle skein. Wagon-	J. Sandage	597,692	Jan. 18	2129	497	82	447
Axle-turning machine. Carriage-	R. R. Spears	615,919	Dec. 13	1263	295 296	85	1671
Axle. Vehicle-	B. W. Justice and W. A. Johnston	598,786	Feb. 8	1223	296	82	851
Axle. Vehicle-	J. A. McLaughlin	596,532	Jan. 4	124	28	82	26
Axle. Vehicle-	E. L. Peterson	616,686	Dec. 27	2756	640	85	2001
Axle. Vehicle-	J. Walker	598,586	Feb. 8	889	213	82	789
Axle. Wagon-	B. F. Horton	612,628	Oct. 18	1841	436	85	377
Axles. Apparatus for manufacturing	C. M. Schwab	599,698	Feb. 22	2775	645	82	1189
Axles. Manufacture of carriage-	O. C. Hall	602,940	Apr. 26	2351	536	83	492
Axles. Rotary-motion transmitter from car-	J. H. Whiting	598,189	Feb. 1	206	48	82	641
Baby-harness	L. B. J. Lyon	602,861	Apr. 26	2205	499	83	464
Baby-jumper	R. M. Cowles and C. Clemson	616,697	Dec. 27	2780	646	85	2005
Baby-rocker motor	P. A. Herrington	613,037	Oct. 25	2559	607 608	85	535
Baby-support	T. W. Southington	598,164	Feb. 1	153	36	82	632
Baby-walker	E. V. Conwell	597,263	Jan. 11	1391	325	82	286
Baby-walker	F. H. Schlunz	612,278	Oct. 11	1217	291	85	246
Back and shoulder brace	J. A. Bassett	596,839	Jan. 4	672	155	82	131
Back-band hook	M. F. Dial	600,412	Mar. 8	1435	328	82	1513
Back-band hook	J. E. Lynch	612,251	Oct. 11	1178	283	85	238
Back-pedaling brake	G. Beekman	609,651	Aug. 23	2781	648 649	84	1241
Back-pedaling brake	J. A. Caldwell	616,075	Dec. 20	1561	364	85	1747
Back-pedaling brake	R. H. Canfield	602,974	Apr. 26	2404	548	83	501
Back-pedaling brake	F. L. Clapp	613,619	Nov. 1	710	165	85	752
Back-pedaling brake	C. F. Dinkle	603,265	May 3	40	11	83	608
Back-pedaling brake	V. E. Doremus	612,129	Oct. 11	956	231	85	197
Back-pedaling brake	F. Ecaubert and H. Serrell	602,634	Apr. 19	1805	412	83	371
Back-pedaling brake	S. Fader	603,325	May 3	141	33	83	629
Back-pedaling brake	R. E. Hammer	600,783	Mar. 15	2096	480	82	1658
Back-pedaling brake	J. Harrington	610,649	Sept. 13	923	212 213	84	1635



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Back-pedaling brake.....	J. W. Hoffman.....	611,963	Oct. 4	635	154	85	124
Back-pedaling brake.....	L. E. Hoffman.....	606,217	June 28	2203	506	83	1826
Back-pedaling brake.....	H. M. Hunt.....	610,270	Sept. 6	229	51	84	1487
Back-pedaling brake.....	J. E. Hussey and A. I. Summers.....	605,718	June 14	1205	278	83	1602
Back-pedaling brake.....	J. B. A. Juhel.....	611,966	Oct. 4	639	156	85	125
Back-pedaling brake.....	W. A. Leggo, Jr.....	605,643	June 14	1076	247	83	1578
Back-pedaling brake.....	G. C. Mandleberg and J. J. Young.....	615,564	Dec. 6	648	148	85	1538
Back-pedaling brake.....	A. P. Morrow.....	611,073	Sept. 20	1664	381	84	1796
Back-pedaling brake.....	S. A. Randall.....	611,147	Sept. 20	1818	418	84	1826
Back-pedaling brake.....	W. D. Robinson.....	613,477	Nov. 1	493	110	85	709
Back-pedaling brake.....	E. H. Schultz and E. H. Starkey.....	609,372	Aug. 16	2240	529	84	1121
Back-pedaling brake.....	H. Symes.....	611,154	Sept. 20	1827	421	84	1828
Back-pedaling brake.....	P. H. White.....	610,507	Sept. 6	690	155	84	1571
Back-pedaling brake.....	L. L. Williams.....	610,696	Sept. 13	996	231	84	1651
Back-pedaling brake.....	W. S. Wilson.....	597,347	Jan. 11	1534	358	82	315
Back-pedaling brake.....	A. Ziwirow.....	603,310	May 3	112	26	83	623
Back-rest. Ventilating.....	J. F. West.....	614,153	Nov. 15	1626	373	85	970
Badge.....	A. H. Adams.....	608,357	Aug. 2	340	74	84	723
Badge.....	A. Phelps.....	604,213	May 17	1810	407	83	1001
Badge.....	J. V. Washburne.....	607,307	July 12	1261	268	84	260
Badge or pin. Campaign.....	G. L. White.....	596,798	Jan. 4	605	140	82	116
Badge. Identification.....	W. S. Richardson.....	613,723	Nov. 8	889	205	85	806
Bag:							
See Hand-bag. Rubber water-bag.							
Hat-bag. Sleeping-bag.							
Mail-bag. Telescope-bag.							
Paper bag. Water-bag.							
Punching-bag.							
Bag.....	W. T. Lane.....	598,611	Feb. 8	928	223	82	797
Bag.....	W. T. Lane.....	615,720	Dec. 13	922	214	85	1606
Bag-closure.....	A. L. Ross.....	605,343	June 7	554	123	83	1458
Bag-fastener.....	A. Arkell.....	603,674	May 10	792	174	83	771
Bag-fastener.....	P. Gans.....	609,989	Aug. 30	3370	783	84	1371
Bag-fastener.....	J. F. Hutchens.....	612,107	Oct. 11	919	224	85	190
Bag-fastener.....	J. F. Hutchens.....	612,108	Oct. 11	921	224	85	190
Bag-fastener.....	M. E. McCoy.....	599,858	Mar. 1	344	78	82	1278
Bag-fastener.....	A. H. Propper.....	608,909	Aug. 9	1340	313	84	934
Bag-fastener.....	C. D. Simmons.....	613,826	Nov. 8	1077	245	85	842
Bag-fastener.....	C. Le Duc.....	613,580	Nov. 1	647	150	85	738
Bag-fastening.....	N. F. Becker.....	608,638	Aug. 9	850	195	84	842
Bag-holder.....	L. E. Biery.....	611,347	Sept. 27	2201	508	84	1918
Bag-holder.....	W. D. Graves.....	608,853	Aug. 9	1261	293	84	918
Bag-holder.....	M. E. Perkins.....	609,589	Aug. 23	2644	618	84	1215
Bag-holder.....	G. Anderson.....	616,443	Dec. 27	2280	531	85	1911
Bag-holder and truck. Combined.....	J. E. Otto.....	608,900	Aug. 9	1327	309	84	931
Bag holder and weigher. Combined.....	W. J. Ayres.....	605,838	June 21	1457	334	83	1668
Bag holder or clamp.....	C. N. Choate.....	606,274	June 28	2311	535	83	1848
Bag holder. Seed.....	J. Kleinstuber.....	603,145	Apr. 26	2700	613	83	558
Bag hook. Chatelaine or other.....	J. West.....	599,206	Feb. 15	1929	456	82	1001
Bag-machine.....	J. L. Wirt.....	605,038	May 31	3279	753	83	1320
Bag or box.....	W. F. Beasley.....	605,068	June 7	2	1	83	1353
Bag or pouch.....	W. Roemer.....	613,912	Nov. 8	1217	278	85	868
Bag or satchel frame.....	G. S. Prichard and J. W. Taylor.....	602,915	Apr. 26	2298	524	83	481
Bag-stringing machine.....	G. W. Shailer.....	599,113	Feb. 15	1779	422	82	975
Bags, mail-bags, &c. Fastener for.....	N. Buxton.....	613,492	Nov. 1	510	115	85	712
Bags, portmanteaus, &c. Securing.....	M. Redgrave.....	603,738	May 10	891	198	83	790
Bagatelle-board.....	J. L. Clark.....	596,481	Jan. 4	25	7	82	8
Bail and cover attachment.....	J. S. Brooks.....	600,508	Mar. 15	1637	373	82	1571
Bail and cover for vessels. Combined.....	J. T. Gill.....	611,033	Sept. 20	1597	366	84	1784
Bail attachment for stone jars.....	P. Walker.....	600,241	Mar. 8	1157	263	82	1460
Bait-holder.....	C. G. Sargent.....	598,888	Feb. 8	1385	333	82	884
Bake-pan.....	R. C. Snyder.....	596,668	Jan. 4	371	82	82	74
Bake-pan.....	E. C. Rinner and P. P. De Hart.....	615,638	Dec. 6	783	181	85	1567
Baking or roasting pan. Self-basting.....	W. G. Henis and F. Jamison.....	598,512	Feb. 8	758	183	82	763
Baking-pan.....	J. Mathy.....	607,759	July 19	2242	474	84	470
Baking-pan.....	G. A. F. Mildt.....	599,246	Feb. 15	1994	474	82	1014
Baking-pan. Compartment.....	L. A. Tuell.....	608,930	Aug. 9	1405	332	84	945
Baking-pan. Pastry.....	M. Epstein.....	612,803	Oct. 18	2157	513	85	438
Baking-tin.....	R. Warner and E. E. Howe.....	616,510	Dec. 27	2425	561	85	1839
Balance.....	E. Böhmer.....	598,073	Feb. 1	7	2	82	604
Balance.....	C. H. Mattice.....	600,979	Mar. 22	2422	553	82	1732
Balcony. Portable.....	R. Bahnsen.....	610,517	Sept. 13	709	160	84	1591
Bale-covering. Metallic.....	M. A. Heath.....	608,042	July 26	2820	600	84	601
Bale or box hook.....	D. M. Botulinski.....	608,172	Aug. 2	8	2	84	656
Bale-tie.....	D. M. Campbell.....	609,872	Aug. 30	3144	735	84	1327
Bale-tie.....	F. H. Daniels.....	608,840	Aug. 9	1236	288	84	914
Bale-tie.....	S. M. Neely.....	616,552	Dec. 27	2501	578	85	1953
Bale-ties. Machine for making wire.....	H. E. Schnabel.....	596,721	Jan. 4	471	108	82	91
Bale-tying press.....	A. Amanns.....	600,328	Mar. 8	1299	297	82	1487
Bales. Apparatus for unwinding cylindrical cotton.....	A. B. Bosca and E. W. Benner.....	608,399	Aug. 2	415	91	84	738
Baling cotton.....	C. L. Bessonette.....	603,250	May 3	13	4	83	603
Baling-press.....	C. L. Bessonette.....	603,249	May 3	11	3	83	602
Baling-press.....	S. W. Bricker.....	600,353	Mar. 8	1341	307	82	1495
Baling-press.....	H. D. Coleman.....	599,685	Mar. 1	15	4	82	1219
Baling-press.....	C. T. Creal.....	597,103	Jan. 11	1141	270	82	239
Baling-press.....	P. K. Dederick.....	603,264	May 3	38	10	83	608
Baling-press.....	P. K. Dederick.....	605,273	June 7	413	93	83	1430
Baling-press.....	P. K. Dederick.....	610,168	Sept. 6	12	4	84	1445



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				Spec.	Dr. E.	Vol.	Page.
Baling-press	J. R. Fordyce	616,457	Dec. 27	2313	539	85	1918
Baling-press	A. G. Gowan	615,159	Nov. 29	3507	540	85	1355
Baling-press	H. J. Grimm	616,785	Dec. 27	2925	806	85	2035
Baling-press	J. H. Holmgreen	604,324	May 17	2019	680	83	1042
Baling-press	T. Kirshman and L. M. Medlin	600,791	Mar. 15	2109	452	82	1661
Baling-press	G. J. Kuehn	614,961	Nov. 29	3140	482	85	1287
Baling-press	S. M. Perrin	609,293	Aug. 16	2114	720	84	1095
Baling-press	E. C. Sooy	614,140	Nov. 15	1605	721	85	967
Baling-press	N. B. Wilder	608,563	Aug. 2	695	501	84	794
Baling-press	N. B. Wilder	615,602	Dec. 6	709	502	85	1552
Baling-press	W. H. Young	610,731	Sept. 13	1058	163	84	1663
Baling-press	W. T. Younger	597,478	Jan. 18	1777	164	82	379
Baling-press, Cotton	F. L. Dyer	601,806	Apr. 5	344	70, 71	83	64
Baling-press door-catch	P. S. Kingsland	613,154	Oct. 25	2743	47	85	572
Ball:							
See Foot-ball.	Return-ball.						
Inflatable ball.	Twine-ball.						
Ball-and-socket clamp	R. E. Swartz	605,527	June 14	850	199	83	1536
Ball-and-socket joint clamp	J. W. Bragger	606,914	July 5	496	109	84	99
Ball-joint for brake-couplings, &c	H. H. Vaughan and J. O. Pattee	605,939	June 21	1656	380	83	1706
Ball-mill	R. Steinbach	603,977	May 10	1317	302	83	872
Ball-sorting machine	R. H. White	609,220	Aug. 16	1971	468	84	1066
Ball-sorting machines. Feed mechanism for	J. Harrison	612,338	Oct. 11	1323	319	85	265
Ball-working machine	H. Meltzer	608,470	Aug. 2	535	120	84	762
Balls. Apparatus for examining the exact spherical form of	H. Meltzer	610,071	Aug. 30	3499	810	84	1396
Balls, &c. Machinery for gaging and sorting steel	R. F. Hall and H. J. T. Piercy	616,789	Dec. 27	2934	682	85	2037
Ballast-unloader	H. H. Warner	611,877	Oct. 4	492	119	85	99
Balloon. Air	R. M. W. H. von Siegsfeld	612,996	Oct. 25	2495	594	85	523
Ballot-box	H. Braasch	602,798	Apr. 19	2096	473	83	427
Ballot-box	L. M. Foster	608,662	Aug. 9	891	204	84	851
Ballot-box	C. F. McCarron and T. Montgomery	613,294	Nov. 1	128	30	85	642
Ballot-counting apparatus	F. E. Holt	602,011	Apr. 5	733	157	83	139
Balloting-machine	W. M. Dougherty	614,800	Nov. 22	2810	645	85	1206
Bamboo rods. Reducing and shaping	W. N. Durant and W. H. Prichard	606,623	June 23	2948	683	83	1972
Band-cutter and feeder	V. C. Bailey	599,584	Feb. 22	2657	622	82	1164
Band-cutter and feeder	C. F. Hawkins	612,727	Oct. 18	2013	478	85	409
Band-cutter and feeder	J. F. Hodgen	601,962	Apr. 5	663	140	83	125
Band or cord. Endless	J. H. Murphy	606,933	July 5	523	114	84	104
Band-slide	E. J. Van Sickle	599,542	Feb. 22	2574	604	82	1148
Bandage	H. Burger and T. Lutz	609,497	Aug. 23	2490	581	84	1186
Bandage	W. H. Johnson	614,477	Nov. 22	2250	515	85	1101
Bandage fabric	W. R. Cartledge	616,524	Dec. 27	2455	568	85	1944
Bandage for umbilical cords	S. G. Smith	612,997	Oct. 25	2497	595	85	524
Bandage-rolling machine	L. D. Mullen and W. C. Shannon	615,298	Dec. 6	138	36, 37	85	1440
Bandage. Umbilical	J. B. Dillon	613,761	Nov. 8	967	222	85	821
Banjo	J. Brandt	601,804	Apr. 5	341	69	83	64
Banjo attachment	W. Kumpf	600,918	Mar. 22	2325	529	82	1713
Banjo-bell	W. J. McLean	604,630	May 24	2582	589	83	1167
Bank-bills into packages. Press for forming	D. F. Charlton and F. J. Jennison	597,236	Jan. 11	1347	315	82	277
Bank-protecting device	G. J. Hinkle	598,477	Feb. 1	694	169	82	734
Bar:							
See Bicycle handle-bar.	Handle-bar.						
Claw-bar.	Rail-sustaining bar.						
Cutter-bar.	Tubular bar.						
Grate-bar.							
Bar or refrigerator cooling device	C., W., and J. C. Knispel	600,227	Mar. 8	1132	258	82	1456
Bar-piling mechanism	L. A. Treat	610,749	Sept. 13	1088	249	84	1668
Bars. Means for straightening and cooling	R. W. Lundy	611,696	Oct. 4	187	44	85	39
Bars or girders. Machine for cutting	W. Werner	601,606	Mar. 29	3505	799	82	1970
Bars or girders. Machine for making holes in	W. Werner	599,276	Feb. 15	2043	484	82	1024
Barber's chair	E. Berninghaus	609,002	Aug. 16	1555	370	84	989
Barber's chair	T. J. Collins	612,089	Oct. 11	890	215	85	184
Barber's chair	C. W. Fischer and A. J. Rollert	597,278	Jan. 11	1412	331	82	290
Barber's chair	A. J. Rollert	598,877	Feb. 8	1367	330	82	880
Barber's shears	M. G. Shain	616,639	Dec. 27	2656	615	85	1981
Bark-cutter	S. W. Butterfield	609,330	Aug. 16	2176	514	84	1108
Barrel	O. H. P. Cornell	615,530	Dec. 6	585	134	85	1525
Barrel	J. C. Estabrook	611,067	Sept. 20	1652	378	84	1794
Barrel	J. A. Jacobson	600,582	Mar. 15	1767	403	82	1594
Barrel	M. H. Tilghman	611,532	Sept. 27	2550	588	84	1983
Barrel and binding therefor. Knockdown	F. W. C. Schäperkötter	613,531	Nov. 1	568	129	85	724
Barrel. Beer	R. Piotrowski	607,661	July 19	2093	437	84	441
Barrel-cleaner	C. Kaestner	601,658	Apr. 5	63	12	83	13
Barrel-cleaner	A. Zinnemann	612,450	Oct. 18	1514	364	85	316
Barrel-cover	W. P. Burke	616,447	Dec. 27	2286	533	85	1912
Barrel-filling apparatus	W. Hartmann	601,960	Apr. 5	660	138	83	124
Barrel-filling machine	J. E. J. Goodlett	596,870	Jan. 4	725	170	82	141
Barrel-head	J. D. Copperfield	597,798	Jan. 25	2325	542	82	501
Barrel-head	J. D. Copperfield	609,793	Aug. 30	3010	705	84	1299
Barrel-head-making machine	J. H. Reed	611,939	Oct. 4	596	144	85	117
Barrel-heading press	A. L. Swett	610,206	Sept. 6	98	21	84	1459
Barrel-hoop	B. H. Gardner	612,030	Oct. 11	783	193	85	164
Barrel-hoop	W. D. Marshall	601,079	Mar. 22	2588	590	82	1764
Barrel, &c. Knockdown	G. Ross-Lund	611,441	Sept. 27	2395	549	84	1952
Barrel. Knockdown	E. M. Shaeffer	612,679	Oct. 18	1930	457	85	394



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Barrel-lifter .....	M. J. Olsen .....	597,243	Jan. 11	1358	317	82	279
Barrel-lining .....	J. V. Berg .....	601,803	Apr. 5	339	69	83	63
Barrel. Metal .....	J. Harmatta .....	608,772	Aug. 9	1075	247	84	885
Barrel or keg stopper .....	J. Hulme .....	611,910	Oct. 4	549	134	85	109
Barrel-pitching machine .....	C. Kaestner .....	616,847	Dec. 27	3033	705 706	85	2058
Barrel-press .....	A. J. Underhill, 2d .....	610,592	Sept. 13	840	192	84	1618
Barrel-scrubbing machine .....	A. Griebel .....	611,576	Sept. 27	2644	610	84	2001
Barrel. Ventilated .....	W. B. East .....	601,558	Mar. 29	3433	779	82	1956
Barrel-washer .....	C. C. F. Ehrengart .....	609,981	Aug. 30	3241	758 759	84	1345
Barrel-washer .....	C. Kaestner .....	605,879	June 21	1541	354 355	83	1683
Barrel-washer .....	G. Schock .....	605,138	June 7	128	32, 33	83	1376
Barrel-washer .....	G. Schock .....	605,139	June 7	131	33, 34	83	1376
Barrel-washing machine .....	R. Troehler .....	607,097	July 12	874	188	84	188
Barrels, crates, &c. Fastener for .....	G. J. Cave .....	602,826	Apr. 26	2152	488	83	453
Barrels. Machine for driving wooden hoops upon .....	J. J. McLarney .....	614,125	Nov. 15	1584	362 363	85	963
Barrels, &c. Removable head or cover for .....	G. F. Thompson .....	603,348	May 3	182	41	83	637
Barrels, &c. Rolling-shoe for coal .....	J. F. Schmadeke .....	611,080	Sept. 20	1685	387	84	1800
Barrels to stocks. Detachably uniting .....	W. Mason .....	605,111	June 7	73	21	83	1366
Barrels to stocks. Means for detachably uniting .....	W. Mason .....	610,765	Sept. 13	1119	256 257	84	1675
Barrow-wheel .....	A. R. Smith and J. Schmitt, Jr. ....	609,303	Aug. 16	2133	506	84	1099
Basin and sewer-trap. Catch- .....	G. H. Mowe .....	611,074	Sept. 20	1665	382	84	1797
Basin, bath, &c. Lavatory- .....	F. C. Lynde .....	615,082	Nov. 29	3375	773 774	85	1229
Basin-clamp .....	T. W. Connolly .....	599,687	Mar. 1	17	5	82	1220
Basin-fixture .....	E. Hammann .....	603,727	May 10	875	191	83	787
Basin holder. Wash- .....	T. S. Heineken .....	599,706	Mar. 1	55	13	82	1227
Basin. Lavatory- .....	J. Crawford .....	600,188	Mar. 8	993	221	82	1428
Basin or sink. Hand- .....	J. J. Wade .....	615,466	Dec. 6	467	110	85	1502
Basin-plug thimble .....	F. S. Chase .....	605,813	June 14	1385	318	83	1635
Basin. Set wash- .....	J. W. Grantland .....	615,387	Dec. 6	322	75, 76	85	1475
Basin, water-closet bowl, bath-tub, &c. Folding wash- .....	J. F. Houston .....	616,106	Dec. 20	1632	382	85	1762
Basket .....	A. Biggs, Jr. ....	606,798	July 5	307	64	84	61
Basket .....	T. B. Johnson .....	605,675	June 14	1135	263	83	1569
Basket .....	W. T. Lane .....	615,721	Dec. 13	923	214	85	1606
Basket and table. Combined lunch .....	A. Williams .....	597,662	Jan. 18	2071	485 486	82	438
Basket-cover fastener .....	C. B. Porter .....	598,274	Feb. 1	363	84	82	670
Basket. Folding .....	M. Bach .....	610,787	Sept. 13	1170	270	84	1685
Basket. Folding .....	S. O. Burchfield .....	603,873	May 10	1151	259	83	840
Basket. Folding .....	R. H. and W. A. McNair .....	613,387	Nov. 1	307	71	85	676
Basket for catching sewing from machines .....	M. C. Arrick .....	610,854	Sept. 13	1277	295	84	1707
Basket. Knockdown .....	A. R. Tiffany .....	613,335	Nov. 1	200	44, 45	85	655
Basket-machine .....	W. Jackson .....	607,689	July 19	2127	446 447 448	84	448
Basket-making machine .....	T. Crebbin .....	604,457	May 24	2267	509 510	83	1109
Basket-making machine .....	J. E. Durham and J. E. Devine .....	605,408	June 7	676	150	83	1483
Basket-making machine .....	R. E. Reed .....	601,778	Apr. 5	297	59, 60	83	56
Bath: See Cabinet-bath. Needle-bath. Electrolytic bath. Shower-bath. Galvanic bath. ....							
Bath and wash tub. Combination .....	S. W. Hendrickson .....	611,630	Oct. 4	63	16	85	15
Bath apparatus. Shower- .....	W. R. Baker .....	608,947	Aug. 9	1434	338	84	950
Bath apparatus. Shower- .....	W. H. Callaghan .....	603,171	Apr. 26	2732	622	83	564
Bath apparatus. Shower- .....	A. S. Hills .....	616,668	Dec. 27	2723	632	85	1994
Bath apparatus. Shower- .....	W. Vanderman .....	603,299	May 3	92	23	83	619
Bath-cabinet .....	L. Wildermuth .....	599,953	Mar. 1	518	117 118	82	1311
Bath-cabinet. Portable .....	R. M. Irwin .....	601,891	Apr. 5	514	106	83	97
Bath-gown .....	H. and H. E. Law .....	601,835	Apr. 5	399	84	83	75
Bath-room and water heater. Portable .....	W. H. Thiell .....	607,791	July 19	2303	486	84	481
Bath-trap .....	W. H. Cloud .....	610,800	Sept. 13	1193	274	84	1690
Bath-tub .....	G. Booth .....	601,236	Mar. 29	2870	654	82	1845
Bath-tub .....	D. D. Buick .....	611,029	Sept. 20	1590	365	84	1783
Bath-tub attachment .....	H. Strauss .....	604,803	May 31	2889	660 661	83	1245
Bath-tub leg .....	D. D. Buick .....	603,254	May 3	21	6	83	604
Bath-tub seat .....	W. Burrows .....	602,125	Apr. 12	924	202	83	187
Bath valve. Shower- .....	W. Demarest and F. J. Cunningham .....	611,064	Sept. 20	1649	377	84	1794
Bathing-suit .....	J. W. D. Davis .....	601,556	Mar. 29	3431	779	82	1956
Bathing-suit .....	M. M. Shepard .....	601,781	Apr. 5	308	61	83	59
Batteries and composition for producing same. Plate for secondary galvanic .....	C. Marschner .....	608,614	Aug. 9	796	184	84	832
Batteries. Automatic cut-out for secondary .....	W. L. Negbaur .....	607,124	July 12	920	200	84	196
Batteries. Charging secondary .....	C. O. Mailloux .....	614,228	Nov. 15	1764	405 406	85	996
Batteries. Making peroxid of lead for galvanic .....	J. D. Darling .....	603,361	May 3	199	-----	83	640
Battery: See Counter-battery. Primary battery. Diffusion-battery. Secondary battery. Electric battery. Stamp-battery. Electrical battery. Storage battery. Electrical primary Storage or secondary battery. battery. Fire-battery. Voltaic battery. Fluid-battery. Water-battery. Galvanic battery. ....							
Battery .....	W. Morison .....	601,042	Mar. 22	2529	575	82	1752



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Battery and electric cell. Combined	J. C. Dagoneau	609,142	Aug. 16	1825	433	84	1038
Battery cell. Primary	F. H. Brown	598,556	Feb. 8	838	200	82	779
Battery grids. Manufacture of storage	W. W. Griscom	597,846	Jan. 25	2402	559	82	517
Battery or turret for coast defense	A. Schausten	600,891	Mar. 22	2284	521	82	1706
Battery plates. Connector for storage	G. Hart	605,424	June 7	701	156	83	1488
Battery purposes. Making plates for electric	A. C. Croftan	603,499	May 3	474	105	83	692
Battery-zinc	D. Ogden	608,216	Aug. 2	88	23	84	672
Bayonet and gun-sight. Combined	B. Burton	613,241	Nov. 1	32	7	85	623
Bayonet. Horse-power	A. J. Johnson	604,153	May 17	1697	382 383	83	980
Beading-machine	C. B. Hatfield	607,637	July 19	2043	424	84	493
Beads, balls, &c. Machine for manufacturing	C. T. Mitchell	599,108	Feb. 15	1772	421	82	973
Beam construction for buildings	G. B. Waite	606,696	July 5	109	24	84	24
Beam, girder, and post. Combination structural metal	C. M. Horton	611,202	Sept. 20	1905	439	84	1842
Beams. Means for securing furring-strips to metallic	L. L. Sagendorph	611,796	Oct. 4	351	85	85	71
Bearing	A. Farnell	616,094	Dec. 20	1614	377	85	1758
Bearing	B. A. Walker	605,940	June 21	1659	380 381	83	1706
Bearing	H. Wyss	614,357	Nov. 15	2017	465	85	1043
Bearing. Adjustable spring	N. Duval-Pihet	607,353	July 12	1342	287	84	277
Bearing adjusting device. Ball	W. G. Harris	608,041	July 26	2319	600	84	601
Bearing and hub. Axle	J. R. Mikesell	605,499	June 14	810	187 188	83	1529
Bearing and power-transmitting device. Combined	C. O. C. Billberg and P. A. N. Winand.	616,396	Dec. 20	2195	512	85	1873
Bearing. Antifriction	W. C. Baker	608,017	July 26	2773	589	84	593
Bearing. Antifriction	W. C. Baker	609,648	Aug. 23	2777	647	84	1240
Bearing. Antifriction	J. R. Coryell	597,175	Jan. 11	1254	294	82	260
Bearing. Antifriction	E. Flannigan	598,414	Feb. 1	602	148	82	717
Bearing. Antifriction	T. R. Garnier	611,032	Sept. 20	1595	366	84	1784
Bearing. Antifriction	A. J. Grinnell	598,317	Feb. 1	438	105	82	685
Bearing. Antifriction	C. B. Hobron	602,047	Apr. 5	793	172	83	150
Bearing. Antifriction	C. B. Hobron	603,642	May 10	738	165	83	760
Bearing. Antifriction	J. E. Lawrence	606,485	June 28	2695	621	83	1924
Bearing. Antifriction	E. S. Leaycraft	601,348	Mar. 29	3086	697	82	1886
Bearing. Antifriction	J. C. Reber	607,790	July 19	2302	486	84	481
Bearing. Antifriction	E. Rivett	608,916	Aug. 9	1360	319	84	938
Bearing. Antifriction hub or wheel	E. Childs	604,003	May 10	1414	316	83	896
Bearing. Axle	C. Faulkner	603,627	May 10	711	159	83	755
Bearing. Axle-arm roller	G. F. Callaghan	615,662	Dec. 6	824	191	85	1575
Bearing. Ball	J. G. Buehler	613,489	Nov. 1	506	114	85	712
Bearing. Ball	J. G. Buehler	613,490	Nov. 1	508	115	85	712
Bearing. Ball	D. Crane	611,236	Sept. 27	1991	459	84	1879
Bearing. Ball	F. Danielson	596,984	Jan. 11	928	219	82	197
Bearing. Ball	P. Davies	610,961	Sept. 20	1468	336	84	1759
Bearing. Ball	W. Diebel	598,197	Feb. 1	219	50	82	644
Bearing. Ball	I. Faunce	609,503	Aug. 23	2497	584	84	1187
Bearing. Ball	C. H. Ferguson	615,150	Nov. 29	3491	802	85	1352
Bearing. Ball	W. S. Gubelmann	605,870	June 21	1523	350	83	1679
Bearing. Ball	F. Gustavson	602,701	Apr. 19	1931	438	83	396
Bearing. Ball	H. Hansen	600,311	Mar. 8	1272	290	82	1482
Bearing. Ball	L. E. Harper and C. L. Grohmann	608,854	Aug. 9	1262	294	84	919
Bearing. Ball	A. G. Hitchcock	609,674	Aug. 23	2816	657	84	1249
Bearing. Ball	P. L. Hussey	612,647	Oct. 18	1878	445	85	383
Bearing. Ball	J. B. Kendall	596,886	Jan. 4	745	175 176	82	145
Bearing. Ball	F. M. Lechner	615,070	Nov. 29	3356	769	85	1326
Bearing. Ball	O. Lunde	602,705	Apr. 19	1937	440	83	397
Bearing. Ball	J. McAlpine	610,970	Sept. 20	1482	338	84	1762
Bearing. Ball	H. Meltzer	599,621	Feb. 22	2727	637	82	1178
Bearing. Ball	G. E. Mittinger, Jr	616,060	Dec. 13	1532	358	85	1725
Bearing. Ball	S. T. Randolph	606,241	June 28	2250	520	83	1834
Bearing. Ball	C. E. Roberts	609,835	Aug. 30	3087	720	84	1315
Bearing. Ball	J. R. Saucier	606,491	June 28	2705	623	83	1926
Bearing. Ball	F. W. Schroeder	609,371	Aug. 16	2238	529	84	1120
Bearing. Ball	C. Smith	609,463	Aug. 23	2416	567	84	1173
Bearing. Ball	W. Sobey	612,879	Oct. 25	2318	552	85	487
Bearing. Ball	G. M. Tinker	597,444	Jan. 18	1718	396	82	367
Bearing. Ball	W. J. Tripp	598,402	Feb. 1	560	137	82	709
Bearing. Ball	E. L. Truba	606,040	June 21	1858	428	83	1740
Bearing. Ball	F. D. Wilt	601,298	Mar. 29	3001	678	82	1871
Bearing. Bicycle	C. E. Colegrove	610,166	Sept. 6	11	3	84	1445
Bearing. Bicycle	W. R. Fox	608,961	Aug. 9	1452	344	84	954
Bearing. Bicycle	T. Midgley	596,524	Jan. 4	111	25	82	23
Bearing. Bicycle crank-shaft	J. Morrison	611,137	Sept. 20	1797	414	84	1822
Bearing. Car-axle	H. A. Fritz	605,817	June 14	1399	320	83	1638
Bearing. Car-axle	F. E. Nulsen	605,827	June 14	1417	323	83	1641
Bearing. Center	P. H. Murphy	602,089	Apr. 12	866	188	83	175
Bearing. Center	P. H. Murphy	602,090	Apr. 12	867	188	83	176
Bearing device. Ball	J. Meyrick, Jr	603,570	May 3	596	132	83	717
Bearing. End	G. G. Brown	610,341	Sept. 6	384	82	84	1514
Bearing for bicycles. Crank-shaft	J. Knappe and C. W. Dake	607,055	July 12	785	171	84	171
Bearing for cycles or velocipedes. Ball	W. W. Tucker	601,821	Apr. 5	377	79	83	71
Bearing for electric motors. Ball	J. M. Murphy	616,063	Dec. 13	1539	360	85	1726
Bearing for rotary disks	H. Ganswindt	610,232	Sept. 6	174	39	84	1475
Bearing for shafts. Thrust	F. H. Heath	599,040	Feb. 15	1664	393	82	954
Bearing for shafts. Thrust	G. E. Wright	611,984	Oct. 4	673	163	85	131
Bearing for sheaves of tackle-blocks. Roller	H. V. Haritz	614,248	Nov. 15	1821	420	85	1005
Bearing for vehicle-hubs. Ball	W. J. Busse	612,986	Oct. 25	2479	591	85	520
Bearing for vertical shafts	J. Warrington	600,816	Mar. 15	2147	491	82	1667
Bearing for worm-gears. Thrust	W. C. Williamson	615,119	Nov. 29	3436	789	85	1341
Bearing. Lubricating	J. O. Marks	607,184	July 12	1081	223	84	216
Bearing mechanism. Ball	O. H. Collmer	612,401	Oct. 18	1427	345	85	299
Bearing retainer. Ball	W. H. Binns	607,584	July 19	1949	404	84	415



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Bearing. Roller-----	W. F. Bauer-----	603,869	May 10	1145	258	83	839
Bearing. Roller-----	A. C. Brownell-----	615,675	Dec. 13	844	195	85	1591
Bearing. Roller-----	G. J. Capewell-----	609,776	Aug. 30	2973	695	84	1292
Bearing. Roller-----	G. J. Capewell-----	609,777	Aug. 30	2975	696	84	1292
Bearing. Roller-----	G. J. Capewell-----	609,778	Aug. 30	2977	696	84	1293
Bearing. Roller-----	E. W. Davis-----	603,586	May 3	624	139	83	723
Bearing. Roller-----	G. W. Dickinson-----	610,436	Sept. 6	555	122	84	1545
Bearing. Roller-----	E. W. Haviland-----	602,749	Apr. 19	2003	453	83	409
Bearing. Roller-----	R. G. Petway-----	608,709	Aug. 9	974	224	84	866
Bearing. Roller-----	T. J. Reid-----	596,828	Jan. 4	655	151	82	127
Bearing. Roller-----	F. G. Susemihl and A. Torrey-----	605,147	June 7	165	41	83	1382
Bearing. Roller-----	M. C. P. Thierry-----	609,526	Aug. 23	2532	592	84	1194
Bearing. Roller-----	H. Timken and R. Heinzelman-----	606,636	June 28	2970	690	83	1976
Bearing. Roller-----	W. H. Woodcock-----	612,472	Oct. 18	1556	373	85	323
Bearing. Self-oiling-----	C. W. H. Blood-----	607,980	July 26	2688	573	84	573
Bearing. Self-oiling-----	A. Weinhold-----	615,511	Dec. 6	556	127	85	1519
Bearing. Shaft-----	G. E. Sovereign-----	615,507	Dec. 6	551	126	85	1519
Bearing. Side-----	P. H. Murphy-----	611,925	Oct. 4	574	139	85	113
Bearing. Thrust-----	E. Carver-----	612,398	Oct. 18	1422	344	85	298
Bearing. Thrust-----	C. Sellers-----	602,589	Apr. 19	1720	391	83	355
Bearing undercarriage. Roller-----	R. T. D. Brougham-----	601,336	Mar. 29	3069	692	82	1883
Bearing. Vehicle-----	J. W. Chambers-----	612,603	Oct. 18	1779	420	85	364
Bearing. Vehicle ball-----	W. S. Robinson-----	599,866	Mar. 1	367	82	82	1282
Bearing. Vehicle roller-----	H. Timken and R. Heinzelman-----	606,635	June 28	2968	689	83	1976
Bearing. Vehicle-wheel-----	F. Day-----	615,683	Dec. 13	861	198	85	1594
Bearing. Vehicle-wheel-----	W. Meeker-----	608,698	Aug. 9	951	218	84	863
Bearing. Vehicle-wheel axle-----	R. C. Patterson-----	602,100	Apr. 12	885	192	83	179
Bearing. Velocipede-----	G. W. Shamp-----	616,205	Dec. 20	1833	423	85	1801
Bearing. Vertical-shaft-----	O. Anderson-----	607,535	July 19	1852	385	84	398
Bearing. Wagon-axle-----	H. M. Cromer-----	599,166	Feb. 15	1869	443	82	990
Bearing. Wheel-----	C. E. Roberts-----	610,331	Sept. 6	371	78	84	1511
Bearing wheel. Roller-----	R. B. U. H. J. Duncan-----	615,148	Nov. 29	3488	801	85	1352
Bearings. Ball-retainer for antifriction-----	H. B. Keiper-----	604,678	May 24	2664	610	83	1183
Bearings. Ball-retaining device for ball-----	E. Klahn-----	611,689	Oct. 4	172	41	85	36
Bearings. Machine for assembling ball-retainers for ball-----	E. Klahn-----	608,611	Aug. 9	790	181	84	831
Bearings. Separator for ball-----	J. P. Archdeacon-----	612,390	Oct. 18	1411	341	85	296
Beater-machine for opening textile materials-----	T. R. Marsden-----	612,548	Oct. 18	1676	399	85	346
Beating-engine bed-plate-----	F. E. Maxfield and E. W. Lovejoy-----	597,885	Jan. 25	2461	574	82	528
Beating or washing engine-----	A. A. Wheat-----	606,174	June 21	2105	484	83	1787
Bed-----	R. B. Coffman-----	598,473	Feb. 1	690	168	82	733
Bed-----	J. Q. Dickinson-----	603,131	Apr. 26	2675	607	83	554
Bed-----	O. S. Foster-----	597,899	Jan. 25	2482	580	82	532
Bed-----	O. S. and W. S. Foster-----	615,838	Dec. 13	1127	263	85	1646
Bed-----	J. Lawrence-----	609,819	Aug. 30	3054	714	84	1307
Bed-----	E. E. Munger-----	602,347	Apr. 12	1309	291	83	264
Bed-----	P. B. Rooney-----	605,136	June 7	124	31, 32	83	1375
Bed. Adjustable-----	H. M. Martin-----	603,651	May 10	751	166	83	763
Bed and chair. Convertible folding-----	J. B. Fellows-----	597,480	Jan. 18	1780	412	82	379
Bed and sofa. Combined-----	A. Markel-----	607,182	July 12	1025	222	84	215
Bed attachment-----	T. H. Campbell-----	602,055	Apr. 12	805	174	83	164
Bed-bottom-----	J. B. Ryan-----	599,735	Mar. 1	100	23	82	1235
Bed-bottom-----	J. B. Ryan-----	599,736	Mar. 1	101	24	82	1235
Bed-bottom-----	J. B. Ryan-----	599,737	Mar. 1	102	24	82	1235
Bed-bottom-----	J. B. Ryan-----	599,738	Mar. 1	103	24	82	1235
Bed-bottom-----	J. B. Ryan-----	599,739	Mar. 1	104	25	82	1236
Bed-bottom-----	J. B. Ryan-----	599,740	Mar. 1	105	25	82	1236
Bed-bottom-----	J. B. Ryan-----	605,680	June 14	1143	265	83	1590
Bed-bottom-----	J. B. Ryan-----	614,987	Nov. 29	3194	735	85	1297
Bed-bottom-----	J. O. Wesner-----	607,102	July 12	883	190	84	189
Bed-bottom casting-----	L. E. Irish-----	611,411	Sept. 27	2338	539	84	1943
Bed-bottom frame-----	B. Newbury-----	615,038	Nov. 29	3292	757	85	1315
Bed-bottom. Spring-----	A. G. Duwe-----	614,221	Nov. 15	1749	402	85	994
Bed-bottom. Spring-----	R. J. Everitt-----	597,143	Jan. 11	1202	282	82	250
Bed-bottom. Spring-----	P. P. Peugh and J. M. Frazee-----	606,683	July 5	88	19	84	20
Bed-brace-----	R. K. Dent, Jr-----	596,858	Jan. 4	705	162	82	137
Bed-brace-----	A. Stoermer, Sr-----	609,172	Aug. 16	1877	447	84	1046
Bedbug-extermimator. Electrical-----	F. M. Archer-----	616,049	Dec. 13	1516	354	85	1721
Bedclothes-clamp-----	L. M. Lownes-----	597,805	Jan. 25	2337	545	82	504
Bedclothes-holder-----	I. D. Cresson-----	603,553	May 3	573	127	83	712
Bed. Collapsible-----	W. J. Curry-----	613,499	Nov. 1	522	118	85	715
Bed-comfortables. Device for supporting and stretching-----	R. T. Palmer, Jr., and F. W. Mercer-----	604,414	May 24	2189	490	83	1094
Bed. Convertible-----	K. L. Stenhouse-----	599,921	Mar. 1	468	105	82	1302
Bed. Cot-----	L. Coburn-----	608,547	Aug. 2	664	151	84	787
Bed. Couch-----	E. R. Leighton-----	615,994	Dec. 13	1412	330	85	1701
Bed, couch, or crib. Folding-----	E. M. Antisdal and G. M. Lortz-----	615,008	Nov. 29	3222	741	85	1302
Bed crib attachment-----	M. C. Lucas-----	608,523	Aug. 2	630	142	84	780
Bed device. Spring-----	C. G. Smith-----	609,842	Aug. 30	3096	722	84	1317
Bed. Extension-----	A. W. Furnivall and H. Martin-----	611,115	Sept. 20	1757	402	84	1814
Bed. Folding-----	F. M. Archer-----	616,048	Dec. 13	1514	354	85	1721
Bed. Folding-----	R. T. Barton-----	598,841	Feb. 8	1303	315	82	867
Bed. Folding-----	F. Jensen-----	610,057	Aug. 30	3475	806	84	1391
Bed. Folding-----	B. Krellenstein-----	611,128	Sept. 20	1779	408	84	1819
Bed. Folding-----	P. H. Mellon-----	612,592	Oct. 18	1760	416	85	361
Bed. Folding-----	R. C. Odell-----	605,126	June 7	99	26	83	1371



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Bed. Folding	C. E. Yeager	609,380	Aug. 16	2254	533	84	1123
Bed. Folding camp	R. Long	611,176	Sept. 20	1862	429	84	1835
Bed. Folding cot	H. C. Niemeyer	600,647	Mar. 15	1859	425	82	1612
Bed. Folding couch	D. C. Storr	596,637	Jan. 4	316	69	82	62
Bed. Folding couch	D. C. Storr	596,725	Jan. 4	478	110	82	93
Bed. Folding sofa	M. Brilliant	612,816	Oct. 25	2189	520	85	463
Bed-frame construction	O. S. Foster	597,673	Jan. 18	2094	490	82	441
Bed. Invalid	A. B. Bennett	607,011	July 12	678	147	84	154
Bed. Invalid	A. McKnight	608,619	Aug. 9	801	185	84	833
Bed. Invalid	J. M. Scribner	606,247	June 28	2267	523	83	1839
Bed. Metallic	W. W. Baldwin	605,660	June 14	1105	255	83	1583
Bed or mattress supporting frame	E. A. Hall	612,336	Oct. 11	1320	318	85	264
Bed-pan	H. Allen	614,526	Nov. 22	2320	531	85	1113
Bed-pan	A. B. Eighmy	604,915	May 31	3087	709	83	1282
Bed-pan	M. A. Slatton	601,084	Mar. 22	2594	592	82	1766
Bed-rail clamp	L. D. Reynolds and V. G. Jones	612,056	Oct. 11	828	203	85	172
Bed-rail clamp	L. Weaver, Jr	598,454	Feb. 1	659	162	82	728
Bed-roller guide or track	G. Kern	600,915	Mar. 22	2320	528	82	1713
Bed-sheets for sick-beds. Apparatus for changing.	A. Kaeding	614,870	Nov. 29	2958	679	85	1249
Bed-slat	J. W. Lowry	616,000	Dec. 13	1426	333	85	1703
Bed-slat	M. Pickett	596,684	Jan. 4	401	90	82	80
Bed. Sofa	A. Mandl	604,997	May 31	3203	737	83	1306
Bed. Spring	N. J. Shields	608,232	Aug. 2	113	28	84	677
Bed-spring stretcher	J. F. Phagan	605,009	May 31	3227	743	83	1310
Bed-springs to cross-wire bases. Machine for attaching	J. P. Leggett	611,132	Sept. 20	1789	411	84	1821
Bed-slat fastener	E. C. Sonntag	609,126	Aug. 16	1799	429	84	1033
Bed-slat stay	M. Richardson	609,703	Aug. 23	2864	669	84	1257
Bed, tent, boat, &c. Combined	H. C. Brown	611,829	Oct. 4	417	99	85	83
Bed work. Spring	J. H. Jackson	608,048	July 26	2827	602	84	603
Beds. Foldable table attachment for	W. J. Williams	598,968	Feb. 15	1538	366	82	928
Bedstead	F. O. Anderson	614,820	Nov. 29	2850	656	85	1229
Bedstead	B. F. Bailey	613,108	Oct. 25	2674	632	85	559
Bedstead	L. Coburn	597,876	Jan. 25	2448	571	82	525
Bedstead	L. Coburn	608,545	Aug. 2	661	150	84	786
Bedstead	L. Coburn	608,546	Aug. 2	663	150	84	786
Bedstead	O. S. Foster	596,659	Jan. 4	357	79	82	71
Bedstead	F. F. McAfee	616,131	Dec. 20	1685	392	85	1771
Bedstead	F. Schweizer	598,606	Feb. 8	921	221	82	796
Bedstead	F. M. Tinkham	604,947	May 31	3128	719	83	1291
Bedstead and mantel. Combination	L. W. Rhoads	597,591	Jan. 18	1959	451	82	416
Bedstead-brace	A. G. Duwe	602,656	Apr. 19	1841	419	83	378
Bedstead commode attachment	E. Hummel	610,863	Sept. 13	1298	299	84	1712
Bedstead corner-piece	F. Eagon	605,310	June 7	483	108	83	1444
Bedstead. Extensible	A. Nilson	611,270	Sept. 27	2064	475	84	1892
Bedstead-fastening	A. H. Switzer	616,034	Dec. 13	1487	347	85	1716
Bedstead. Folding	N. P. Bradish	599,380	Feb. 22	2265	536	82	1088
Bedstead. Folding	A. G. Duwe	614,222	Nov. 15	1750	402	85	994
Bedstead. Folding	J. W. Evans	614,377	Nov. 15	2047	472	85	1049
Bedstead. Invalid	A. J. Goodwin	603,632	May 10	721	161	83	757
Bedstead. Invalid	G. E. Homan	601,001	Mar. 22	2468	562	82	1740
Bedstead. Metal	T. Collieran	598,594	Feb. 8	901	217	82	792
Bedstead. Metallic	F. G. Gale	598,564	Feb. 8	848	202	82	781
Bedstead. Metallic	E. Zambusky	610,698	Sept. 13	999	232	84	1651
Bedstead post. Metal	S. Newman	610,078	Aug. 30	3513	814	84	1399
Bedstead securing device	R. S. Groves	605,869	June 21	1521	350	83	1679
Bedstead-rails together. Device for securing	D. D. Curtis	601,503	Mar. 29	3350	758	82	1938
Bedstead, table, sofa, or chair	J. Sigurdson	597,071	Jan. 11	1079	255	82	226
Bedsteads. Reversible rail-grip for	G. Brand	605,286	June 7	435	98	83	1435
Bee-catcher	E. Arrington	597,934	Jan. 25	2539	593	82	542
Beehive	F. Danzenbaker	600,245	Mar. 8	1163	264	82	1462
Beehive	J. F. Wessel	608,943	Aug. 9	1426	336	84	949
Beehive	C. Winter	611,746	Oct. 4	271	65	85	56
Beehive swarm-preventer	J. Koopman	608,261	Aug. 2	157	39	84	685
Beef-roaster	F. Michel	601,812	Apr. 5	364	75	83	69
Beefsteak-bruise	E. M. Bice	615,132	Nov. 29	3458	793	85	1346
Beer, &c. Drawing	H. C. Black	607,979	July 26	2686	573	84	573
Beer governor and pressure-regulator. Automatic steam	S. H. Atchison	606,113	June 21	1995	458	83	1768
Beer-kegs. Air-supply and vent device for	F. D. E. Manzel	612,591	Oct. 18	1759	416	85	361
Beer or ale pipe cleaner	M. Teehan	609,635	Aug. 23	2757	643	84	1237
Beer or mineral-water box	P. D. Laible and H. Fredrick	615,860	Dec. 13	1157	270	85	1651
Beer-pasteurizing apparatus	W. J. Ruff	607,770	July 19	2262	478	84	474
Beer-pasteurizing apparatus	E. Wagner	607,304	July 12	1255	268	84	259
Beer-pipe cleaner	B. Rinke	604,791	May 31	2872	656	83	1241
Beer-pipes, &c. Apparatus for cleansing	V. Bonzagni	598,301	Feb. 1	413	97	82	680
Beer pressure-regulator	C. Christian	616,604	Dec. 27	2582	598	85	1967
Beer, &c. Process of and apparatus for gasing	J. L. Alberger	608,744	Aug. 9	1028	236	84	876
Beer-pump air purifier	H. Beutelspacher	609,493	Aug. 23	2484	580	84	1185
Beeswax-extractor	C. G. Ferris	612,027	Oct. 11	778	192	85	163
Beet-root-cutting machine	H. P. Dyer	614,446	Nov. 22	2186	501	85	1089
Beet spacer and buncher. Sugar	J. Clark	612,894	Oct. 25	2342	557	85	491
Beeves. Machine for splitting	H. H. Young	601,926	Apr. 5	576	120	83	110
Beholding device	F. E. Goldsmith	597,408	Jan. 18	1643	382	82	353
Belaying-grip	W. E. Sargent	598,441	Feb. 1	641	157	82	725
Bell	J. Oberle	610,240	Sept. 6	184	41	84	1478
Bell base-plate. Bicycle	H. N. Gale	614,805	Nov. 22	2825	650	85	1209
Bell. Bicycle	C. H. Allen	612,387	Oct. 18	1405	340	85	295
Bell. Bicycle	S. Allen, Sr	612,388	Oct. 18	1406	340	85	295



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bell. Bicycle	W. H. Barker	608,146	July 26	2977	639	84	632
Bell. Bicycle	J. Doughty	597,106	Jan. 11	1145	271	82	239
Bell. Bicycle	N. N. Hill	596,775	Jan. 4	570	131	82	110
Bell. Bicycle	C. Jetschick	604,884	May 31	3026	695	83	1271
Bell. Bicycle	J. Keith	604,356	May 17	2985	467	83	1055
Bell. Bicycle	A. H. Lester	607,986	July 26	2613	555	84	559
Bell. Bicycle	J. D. Lord	615,287	Dec. 6	121	32, 33	85	1437
Bell. Bicycle	H. G. Martin	603,279	May 3	62	15	83	613
Bell. Bicycle	L. Noel	610,495	Sept. 6	669	150	84	1567
Bell. Bicycle	H. S. Pullman	608,478	Aug. 2	553	123	84	765
Bell. Bicycle	E. D. Rockwell	616,732	Dec. 27	2846	659	85	2020
Bell. Bicycle	L. A. Sanford	599,988	Mar. 1	569	131	82	1321
Bell. Bicycle	F. A. Scranton	612,124	Oct. 11	950	230	85	196
Bell. Bicycle	W. G. Toepfer	605,936	June 21	1648	378	83	1704
Bell. Bicycle	C. A. Tredwell	598,259	Feb. 1	333	77	82	665
Bell. Bicycle	E. H. White	608,499	Aug. 2	585	131	84	771
Bell. Bicycle	D. P. Wolhaupter	609,983	Aug. 30	3359	780	84	1368
Bell clamp. Bicycle	E. D. Rockwell	616,015	Dec. 13	1452	340	85	1708
Bell. Polarized signal	F. R. McBerty	598,269	Feb. 1	354	82	82	668
Bell-ringer	J. H. Bartow	599,052	Feb. 15	1678	397	82	957
Bell-ringing mechanism	H. S. Ross	611,794	Oct. 4	349	84	85	70
Bell striking mechanism	J. G. Peterson	603,046	Apr. 26	2516	570	83	522
Belt	H. D. Capitain	599,683	Mar. 1	12	3	82	1219
Belt	H. Caroli	604,298	May 17	1967	440	83	1032
Belt	H. J. Gaisman	603,024	Apr. 26	2485	564	83	516
Belt	W. Lanz	600,331	Mar. 8	1307	299	82	1489
Belt and belt-holder. Skirt-supporting	P. E. Post	608,907	Aug. 9	1335	312	81	933
Belt attachment. Waist-	C. L. Stephenson	603,158	Apr. 26	2715	617	83	561
Belt-clamp	W. P. Carley and W. T. Rickards	606,512	June 28	2733	631	83	1931
Belt-clamping device	J. Hankin	600,869	Mar. 22	2244	511	82	1699
Belt. Concentrating-	W. F. Bowers	599,926	Mar. 1	473	107	82	1303
Belt. Electrical	A. J. Taylor	601,806	May 31	2892	661	83	1245
Belt. Endless	A. Christensen	606,376	June 28	2506	582	83	1885
Belt-fastener	W. H. Bristol	596,690	Jan. 4	412	93	82	82
Belt fastener	J. H. Humes	600,644	Mar. 15	1855	424	82	1612
Belt-guide	L. Anderson	613,956	Nov. 8	1287	292	85	882
Belt-making machine	P. F. Cox	600,359	Mar. 8	1352	309	82	1497
Belt placer and tightener	A. Luke	616,792	Dec. 27	2942	685	85	2039
Belt-regulator	O. K. Sletto	608,486	Aug. 2	564	126	84	767
Belt. Skirt-supporting	H. Vallenius	613,739	Nov. 8	931	213	85	814
Belt-tightener	E. A. Bigelow	613,960	Nov. 8	1293	293	85	883
Belt-tightener	J. H. Gilman	598,658	Feb. 8	1017	245	82	812
Belt-tightener	J. P. Theisen	613,736	Nov. 8	923	211	85	812
Belt. Waist-	S. Bienenzucht	615,133	Nov. 29	3459	794	85	1346
Belt. Waist-	J. Pendergast	608,903	Aug. 9	1331	311	84	932
Belts. Compound for preserving	M. J. O'Donnell	611,459	Sept. 27	2426	.....	84	1959
Belts. Manufacture of leather	E. F. Sargeant	599,869	Mar. 1	372	83, 84	82	1283
Belting	F. W. Oliver	607,454	July 19	1535	327	84	329
Belting. Protective covering or shield for chain	N. C. Bassett	613,637	Nov. 1	741	172	85	758
Bench:							
See Hothouse tile bench. Work-bench.							
Vise-bench.							
Bench clamp and dog. Automatic	J. P. Rogers	603,970	May 10	1309	300	83	871
Bench-stop	H. E. Shawver	609,302	Aug. 16	2132	505	84	1099
Bending-machine	G. Guild	610,585	Sept. 13	822	188	84	1613
Bending-machine	C. Seymour	603,926	May 10	1243	282	83	857
Benzidin-orange	C. Ris	601,063	Mar. 22	2567	.....	82	1760
Berry separator and cleaner	L. T. Hammond	600,784	Mar. 15	2097	480	82	1658
Berth and settee for ships. Convertible	T. R. Turner	610,421	Sept. 6	530	116	84	1540
Berth curtain-rod fixture	J. Kirby, Jr.	603,643	May 10	739	165	83	760
Berth guard-rail	J. Megins	598,735	Feb. 8	1147	276	82	837
Berth. Ship's	W. P. Hoskins	601,143	Mar. 22	2688	616	82	1784
Bessemerizing matte. Method of and apparatus for	O. S. Garretson	596,992	Jan. 11	938	222	82	199
Bevel-tool	F. Lafferty	611,129	Sept. 20	1780	408	84	1820
Beveling-machine	V. Royle	598,257	Feb. 1	327	75, 76	82	663
Beverage and making same. Effervescent milk	F. W. H. Graeff	607,362	July 12	1357	289	84	279
Beverage compound	G. J. L. James	607,173	July 12	1010	.....	84	212
Beverage-cooler	L. Baumeister	608,169	Aug. 2	4	1, 2	84	655
Beverages. Manufacture of non-intoxicating	E. Uhlmann	613,915	Nov. 8	1220	.....	85	869
Beverages. Vessel for retailing aerated	J. Baer	611,464	Sept. 27	2436	560	84	1961
Bib	C. L. Maier	615,293	Dec. 6	131	35	85	1438
Bible-wheel	W. C. Reuter	601,383	Mar. 29	3141	709	82	1597
Bicycle	R. P. Ambler	609,732	Aug. 23	2890	675	84	1263
Bicycle	J. A. Anderson	604,011	May 17	1431	321	83	929
Bicycle	F. X. Atzberger	612,007	Oct. 11	725	174	85	155
Bicycle	F. H. Bassett	602,536	Apr. 19	1633	372	83	340
Bicycle	C. S. Beebe	598,237	Feb. 1	290	66	82	657
Bicycle	C. S. Beebe	612,393	Oct. 18	1415	341	85	297
Bicycle	J. H. Bergstrom	606,854	July 5	414	88	84	82
Bicycle	G. G. Bieber	608,825	Aug. 9	1207	282	84	908
Bicycle	L. Boonen	604,487	May 24	2341	531	83	1121
Bicycle	J. W. Bramwell	609,005	Aug. 16	1559	371	84	990
Bicycle	T. H. Brigg	609,006	Aug. 16	1559	371	84	990
Bicycle	W. F. Brinton	607,500	July 19	1793	373	84	387
Bicycle	F. O. Bullis	597,098	Jan. 11	1134	268	82	237
Bicycle	C. T. and W. B. Burgess	606,704	July 5	124	27	84	27
Bicycle	H. Busse	599,993	Mar. 1	577	133	82	1322
Bicycle	G. Caddick	615,137	Nov. 29	3464	795	85	1347



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Bicycle	C. E. Cain	604,226	May 17	1832	411	83	1006
Bicycle	M. T. Campbell	609,498	Aug. 23	2491	582	84	1186
Bicycle	M. T. Campbell	610,157	Aug. 30	3630	844	84	1424
Bicycle	C. O. L. Cardell and O. P. Ostergren	596,960	Jan. 4	882	207	82	172
Bicycle	S. D. Carpenter	600,404	Mar. 8	1422	325 326	82	1511
Bicycle	J. Caruso	614,260	Nov. 15	1841	425	85	1010
Bicycle	W. H. Castle	601,613	Mar. 29	3517	802	82	1972
Bicycle	W. H. Castle	604,187	May 17	1768	398	83	994
Bicycle	D. W. Caswell	601,122	Mar. 22	2655	606	82	1778
Bicycle	D. W. Caswell	603,497	May 3	470	104	83	691
Bicycle	C. C. Chrisman	613,244	Nov. 1		34	85	623
Bicycle	J. R. Connell	604,710	May 24	2732	624	83	1195
Bicycle	W. Corliss	596,695	Jan. 4	429	97	82	84
Bicycle	D. T. Demarest	603,006	Apr. 26	2457	559	83	511
Bicycle	R. C. Fay	601,710	Apr. 5	175	34	83	35
Bicycle	O. Fetzer	611,780	Oct. 4	325	78	85	66
Bicycle	J. F. Foster	610,582	Sept. 13	815	186 187	84	1612
Bicycle	C. J. Gadd	599,058	Feb. 15	1689	400 401	82	959
Bicycle	L. B. Gaylor	614,944	Nov. 29	3113	714	85	1282
Bicycle	J. M. Gilbert	598,083	Feb. 1	21	6	82	607
Bicycle	E. Haines and R. Monahan	614,101	Nov. 15	1531	351	85	953
Bicycle	A. W. Hall	598,246	Feb. 1	305	70	82	660
Bicycle	A. W. Hall	611,429	Sept. 27	2375	546	84	1948
Bicycle	G. Harden	616,571	Dec. 27	2527	585	85	1957
Bicycle	C. R. Harris	600,001	Mar. 1	589	135	82	1324
Bicycle	C. R. Harris	609,581	Aug. 23	2628	615	84	1212
Bicycle	B. Hempstead	598,511	Feb. 8	756	182	82	763
Bicycle	A. F. Hood	607,438	July 19	1507	321	84	324
Bicycle	J. Horn	600,643	Mar. 15	1854	424	82	1612
Bicycle	A. Johnston	605,182	June 7	224	54	83	1393
Bicycle	E. S. Leaycraft	601,350	Mar. 29	3088	697	82	1887
Bicycle	G. W. Manson	616,421	Dec. 20	2241	522 523	85	1882
Bicycle	G. C. Mathews	602,461	Apr. 19	1510	344 345	83	316
Bicycle	M. McAneny	600,839	Mar. 15	2190	500	82	1675
Bicycle	H. McDonald	613,885	Nov. 8	1182	270	85	862
Bicycle	H. McDonald	613,886	Nov. 8	1184	270	85	863
Bicycle	J. McLean	604,073	May 17	1556	349	83	952
Bicycle	A. G. Mead	616,480	Dec. 27	2363	549	85	1927
Bicycle	J. G. Mooney	601,025	Mar. 22	2504	569	82	1747
Bicycle	J. F. Murphy	602,034	Apr. 5	772	167	83	146
Bicycle	W. E. Nageborn	616,551	Dec. 27	2499	578	85	1952
Bicycle, &c.	H. Nevill	601,978	Apr. 5	687	146	83	130
Bicycle	C. F. Nilson	605,331	June 7	515	115	83	1451
Bicycle	C. Nordell	614,884	Nov. 29	2980	683	85	1254
Bicycle	G. P. Ohlgart	602,354	Apr. 12	1320	294	83	266
Bicycle	P. J. Parker	611,865	Oct. 4	477	115	85	96
Bicycle	L. F. Parks	607,606	July 19	1984	412	84	421
Bicycle	G. Peterson	614,409	Nov. 15	2115	486	85	1062
Bicycle	L. Petterson	607,075	July 12	824	180	84	179
Bicycle	J. E. Praul	613,601	Nov. 1	686	158	85	747
Bicycle	W. J. Pugh	598,058	Jan. 25	2755	642 643	82	585
Bicycle	I. F. Randolph	615,901	Dec. 13	1224	287	85	1664
Bicycle	G. H. Richmond and J. Crowther	600,450	Mar. 8	1503	344	82	1524
Bicycle	T. E. J. Schaibly	613,943	Nov. 8	1270	288	85	879
Bicycle	W. Schluer	599,152	Feb. 15	1845	437	82	986
Bicycle	F. W. Smith	597,441	Jan. 18	1707	395	82	365
Bicycle	W. H. Sparks	600,046	Mar. 1	762	173	82	1363
Bicycle	M. J. Steffens	613,732	Nov. 8	916	210	85	811
Bicycle	C. E. Stockford	608,350	Aug. 2	332	73	84	722
Bicycle	W. J. Tanner	609,634	Aug. 23	2756	643	84	1237
Bicycle	J. L. Tatro	602,609	Apr. 19	1755	400	83	362
Bicycle	E. D. Thompson	598,186	Feb. 1	201	46	82	640
Bicycle	E. D. Thompson	598,234	Feb. 1	288	65	82	656
Bicycle	T. L. Turner	599,048	Feb. 15	1673	396	82	956
Bicycle	F. J. Wadman	608,936	Aug. 9	1416	334	84	947
Bicycle	A. S. Weaver	605,365	June 7	599	133	83	1465
Bicycle	E. E. White	616,381	Dec. 20	2171	506	85	1869
Bicycle	J. E. Wilson	606,797	July 5	304	63, 64	84	60
Bicycle	J. T. Wilson	600,664	Mar. 15	1899	433	82	1620
Bicycle	A. Winton	607,106	July 12	888	191	84	190
Bicycle	J. H. Bowman	610,796	Sept. 13	1186	273	84	1688
Bicycle	E. E. Eyster	602,618	Apr. 19	1772	405	83	365
Bicycle, Air-propelled	D. A. Moore	596,901	Jan. 4	772	182	82	151
Bicycle, Air-propelled	G. W. Cook	601,126	Mar. 22	2662	608	82	1779
Bicycle air-pump	E. C. Akers	603,032	Apr. 26	2498	566	83	518
Bicycle alarm	F. J. Heilborn	597,829	Jan. 25	2369	553	82	510
Bicycle attachment	C. F. Balser	615,237	Dec. 6	11	2, 3	85	1413
Bicycle attachment	E. F. Batchelder	615,783	Dec. 13	1039	244	85	1628
Bicycle attachment	M. Burt	606,185	June 28	2124	488	83	1810
Bicycle attachment	L. Feingold	603,326	May 3	143	33, 34	83	629
Bicycle attachment	F. P. Hurst	597,287	Jan. 11	1423	334	82	292
Bicycle attachment	J. S. Lord	608,262	Aug. 2	158	39	84	685
Bicycle attachment	C. S. Morse	606,389	June 28	2526	586	83	1889
Bicycle attachment	E. H. Norris	603,654	May 10	756	169	83	764
Bicycle attachment	G. Osborne	599,790	Mar. 1	199	49	82	1253
Bicycle attachment	G. H. Pacaud	607,455	July 19	1538	327	84	329
Bicycle attachment	A. M. Peate and H. M. Koosch	597,527	Jan. 18	1851	429	82	394
Bicycle attachment	J. W. Satterthwaite	615,106	Nov. 29	3416	783	85	1337
Bicycle attachment	W. B. Spencer	608,235	Aug. 2	116	29	84	677
Bicycle attachment	E. M. West	609,857	Aug. 30	3114	728	84	1320



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Bicycle bottom bracket	W. I. Grubb	609,186	Aug. 16	1897	451	84	1050
Bicycle-brake	J. L. Allen	606,496	June 28	2712	624	83	1927
Bicycle-brake	E. D. Anderson	597,932	Jan. 25	2536	592	82	541
Bicycle-brake	B. W. Ashwell	609,766	Aug. 30	2956	691	84	1289
Bicycle-brake	F. E. Baldwin	610,298	Sept. 6	304	66	84	1500
Bicycle-brake	J. H. Barr	614,159	Nov. 15	1635	375 376	85	972
Bicycle-brake	F. E. B. Beaumont	615,785	Dec. 13	1042	245	85	1629
Bicycle-brake	C. P. Birner	600,474	Mar. 8	1552	357	82	1534
Bicycle-brake	C. P. Birner	604,362	May 24	2104	472	83	1078
Bicycle-brake	G. F. Cadden	613,965	Nov. 8	1301	296	85	885
Bicycle-brake	F. W. Chadwick	612,893	Oct. 25	2340	557	85	490
Bicycle-brake	L. E. Clark	615,528	Dec. 6	583	133	85	1525
Bicycle-brake	W. H. Crossley	612,403	Oct. 18	1433	346	85	300
Bicycle-brake	J. M. Downer	606,334	June 28	2429	562	83	1871
Bicycle-brake	C. Eickemeyer	597,403	Jan. 18	1635	380	82	351
Bicycle-brake	J. C. Ernst	604,030	May 17	1469	329	83	936
Bicycle-brake	C. M. Fobes	605,092	June 7	46	15	83	1361
Bicycle-brake	S. S. Goldman	613,508	Nov. 1	535	121	85	717
Bicycle-brake	E. S. Hall	603,140	Apr. 26	2631	611	83	557
Bicycle-brake	F. Hammond	598,866	Feb. 8	1351	326	82	876
Bicycle-brake	E. W. Hanes	609,742	Aug. 23	2920	683	84	1268
Bicycle-brake	J. Harrison	606,166	June 21	2093	481	83	1785
Bicycle-brake	F. H. Heath	603,331	May 3	154	36	83	631
Bicycle-brake	J. Higson	606,626	June 28	2956	685	83	1974
Bicycle-brake	W. J. Hinkson	612,728	Oct. 18	2016	478	85	410
Bicycle-brake	R. Hoffman	601,197	Mar. 22	2788	638	82	1802
Bicycle-brake	W. H. Holloway	614,952	Nov. 29	3129	717	85	1285
Bicycle-brake	J. and J. F. Kaylor	607,857	July 26	2478	526	84	533
Bicycle-brake	H. A. Klemm	605,047	May 31	3295	756	83	1323
Bicycle-brake	P. Krebs	604,587	May 24	2513	571	83	1153
Bicycle-brake	D. N. Le Ballister	605,728	June 14	1216	281	83	1604
Bicycle-brake	E. S. Leaycraft	601,349	Mar. 29	3087	697	82	1887
Bicycle-brake	D. M. Lester	612,044	Oct. 11	809	199	85	169
Bicycle-brake	W. B. Marling	613,165	Oct. 25	2762	650 651	85	576
Bicycle-brake	H. D. Mills	616,342	Dec. 20	2092	487	85	1853
Bicycle-brake	H. Morrison	596,526	Jan. 4	113	26	82	24
Bicycle-brake	C. Muhlenfels	603,774	May 10	958	214	83	803
Bicycle-brake	F. Murgatroyd	598,530	Feb. 8	794	190	82	770
Bicycle-brake	R. S. Orr	602,470	Apr. 19	1528	347	83	321
Bicycle-brake	A. Page	613,909	Nov. 8	1213	277	85	868
Bicycle-brake	R. E. Poindexter	601,587	Mar. 29	3475	792	82	1964
Bicycle-brake	R. Rausch	603,706	May 10	843	186	83	781
Bicycle-brake	E. E. Robison	600,045	Mar. 1	761	173	82	1362
Bicycle-brake	T. B. Sloper	608,082	July 26	2875	615	84	613
Bicycle-brake	W. H. Sparks	616,429	Dec. 20	2254	525	85	1885
Bicycle-brake	F. P. Stanley	597,031	Jan. 11	1000	236	82	210
Bicycle-brake	W. Taylor	610,104	Aug. 30	3516	822	84	1406
Bicycle-brake	T. Terrell	600,459	Mar. 8	1528	350	82	1529
Bicycle-brake	R. G. Tucker	614,676	Nov. 22	2600	590	85	1163
Bicycle-brake	J. T. Wiley	611,541	Sept. 27	2570	592	84	1987
Bicycle-brake	C. H. Wolf	599,278	Feb. 15	2049	485	82	1025
Bicycle-brake	W. Wollshlaeger	609,647	Aug. 23	2775	647	84	1240
Bicycle-brake and alarm	A. M. Schutz	597,863	Jan. 25	2432	566	82	522
Bicycle-brake and foot-rest	R. Hoffmeister	600,534	Mar. 15	1686	385	82	1580
Bicycle-brake and support	L. Tuchscherer	601,185	Mar. 22	2766	634	82	1798
Bicycle-brake. Pneumatic	L. Bowles	597,456	Jan. 18	1739	402	82	371
Bicycle-brake. Pneumatic	C. Sears	614,899	Nov. 29	3005	689	85	1258
Bicycle bundle-carrier	C. Rondell	605,188	June 7	233	56	83	1395
Bicycle bundle-strap	L. Levi	610,847	Sept. 13	1267	292	84	1705
Bicycle-canopy	C. M. McDonald	601,977	Apr. 5	685	145	83	130
Bicycle-canopy	J. J. Metzger	603,916	May 10	1226	278	83	855
Bicycle-carrier	C. C. du Pont	615,264	Dec. 6	82	22	85	1429
Bicycle-carrier	T. Eickemeyer	607,355	July 12	1344	287 288	84	277
Bicycle-carrier	F. B. Shackelton	615,756	Dec. 13	983	229	85	1617
Bicycle-chain	L. C. Krummel	607,752	July 19	2232	472	84	468
Bicycle-chain adjustment	C. W. Bernson	604,294	May 17	1960	439	83	1031
Bicycle-chain adjustment	E. S. Leaycraft	601,346	Mar. 29	3084	696	82	1886
Bicycle-chain adjustment	G. C. Savage	602,545	Apr. 19	1649	375	83	312
Bicycle chain and sprocket guard	J. W. Fulford	611,750	Oct. 4	276	66	85	56
Bicycle-chain brush attachment	F. G. Kinnard	608,609	Aug. 9	788	181	84	830
Bicycle-chain-cleaning device. Automatic	E. Fay	602,000	Apr. 5	717	152	83	135
Bicycle-chain connection	G. W. Pond	600,595	Mar. 15	1784	408	82	1598
Bicycle chain disk or cam	B. Ljungström	599,851	Mar. 1	331	74	82	1275
Bicycle chain-guard	W. S. Noyes	598,056	Jan. 25	2752	642	82	584
Bicycle chain-guard	P. H. White	599,820	Mar. 1	281	63	82	1266
Bicycle-chains. Apparatus for cleaning, &c.	W. J. Baldwin	613,833	Nov. 8	1089	248	85	843
Bicycle. Chainless	A. Bailey	616,067	Dec. 20	1549	362	85	1745
Bicycle. Chainless	M. J. Doran	612,315	Oct. 11	1283	309 310	85	257
Bicycle. Chainless	F. A. Kershaw	614,250	Nov. 15	1824	422	85	1006
Bicycle. Chainless	W. H. Russell	597,621	Jan. 18	2001	467	82	425
Bicycle. Chainless	O. W. Schaum	616,262	Dec. 20	1952	454	85	1825
Bicycle. Chainless	W. T. Shryock	607,710	July 19	2169	456	84	456
Bicycle. Chainless	C. H. Thomas	615,763	Dec. 13	1000	233	85	1621
Bicycle changeable gear	F. E. Maxwell	615,033	Nov. 29	3283	755	85	1313
Bicycle checking and securing frame	T. L. Corwin	612,195	Oct. 11	1063	255	85	217
Bicycle clothing-protector	C. M. Handover	609,508	Aug. 23	2505	586	84	1189
Bicycle-coaster	B. H. Divine	604,168	May 17	1722	388	83	984
Bicycle combination-tool	E. W. Sweigard	605,453	June 7	741	168	83	1495
Bicycle connecting attachment	C. L. Bevins	614,317	Nov. 15	1931	445 446	85	1027
Bicycle-coupling	H. Cottrell and H. C. Condit	616,407	Dec. 20	2217	517	85	1877
Bicycle-coupling	H. Ellar	603,501	May 3	476	106	83	692



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Bicycle-coupling	P. T. Ripley	605,799	June 14	1366	313	83	1632
Bicycle-crank	J. G. Brown	605,472	June 14	767	176	83	1521
Bicycle-crank	C. L. Goodrich	597,196	Jan. 11	1287	301	82	266
Bicycle crank and axle	A. J. Perks	614,757	Nov. 22	2744	626	85	1193
Bicycle crank and crank-axle	F. L. Siglow	596,550	Jan. 4	157	35	82	32
Bicycle crank-axle and sprocket	T. Midgley	596,523	Jan. 4	110	25	82	23
Bicycle crank fastening device	E. V. Gauthier	608,448	Aug. 2	497	112	84	754
Bicycle crank hanger	T. Midgley	603,149	Apr. 26	2704	614	83	559
Bicycle crank-shaft	G. M. Beard	602,049	Apr. 12	799	173	83	163
Bicycle crank-shaft	S. A. Donnelly	608,445	Aug. 2	493	112	84	754
Bicycle crank-shaft	H. L. Ferris and E. B. Hunt	599,652	Feb. 22	2796	651	82	1193
Bicycle crank-shaft	A. Levedahl	608,369	Aug. 2	356	78	84	727
Bicycle crank-shaft and bearing	L. E. Hoffman	603,142	Apr. 26	2696	612	83	557
Bicycle cyclometer attachment	W. L. Shepard	612,617	Oct. 18	1825	433	85	374
Bicycle dress-guard	E. P. Turner	597,867	Jan. 25	2436	567	82	523
Bicycle drive and brake mechanism	A. C. Tanner	612,790	Oct. 18	2132	506	85	433
Bicycle drive-gear	J. Parker	616,349	Dec. 20	2110	492	85	1857
Bicycle driving and guiding mechanism	A. E. F. Vonhausen	614,146	Nov. 15	1616	370	85	969
Bicycle driving and steering attachment	D. L. Winters	597,348	Jan. 11	1536	358	82	315
Bicycle driving connection	H. W. Johnstone	605,183	June 7	226	55	83	1393
Bicycle driving-gear	W. W. Annable	614,071	Nov. 8	1472	338	85	920
Bicycle driving-gear	E. Courtwright	616,408	Dec. 20	2219	518	85	1878
Bicycle driving-gear	J. Howard	611,170	Sept. 20	1853	427	84	1833
Bicycle driving-gear	S. T. Johnson	599,061	Feb. 15	1693	401	82	959
Bicycle driving-gear	W. S. Kellogg	602,162	Apr. 12	1005	220	83	202
Bicycle driving-gear	W. H. G. King	602,906	Apr. 26	2281	521	83	477
Bicycle driving-gear	T. J. Lindsay	611,329	Sept. 27	2168	501	84	1912
Bicycle driving-gear	J. L. Löb, G. H. Barlow, and A. W. R. Drabsch	599,106	Feb. 15	1768	420	82	973
Bicycle driving-gear	L. W. Noyes	607,522	July 19	1830	382	84	394
Bicycle driving-gear	L. Vignal	607,972	July 26	2671	570	84	570
Bicycle driving-gear	W. F. Williams	599,211	Feb. 15	1938	459	82	1003
Bicycle driving-gear. Chainless	T. G. Salisbury	612,995	Oct. 25	2493	593	85	523
Bicycle driving mechanism	F. O. Bullis	612,542	Oct. 18	1663	395	85	343
Bicycle driving mechanism	H. H. Fefel	611,779	Oct. 4	325	78	85	66
Bicycle driving mechanism	W. Pincus	599,065	Feb. 15	1699	403	82	960
Bicycle driving mechanism	W. J. S. Strange	612,918	Oct. 25	2372	565	85	497
Bicycle driving mechanism	W. E. Taft	600,752	Mar. 15	2049	468	82	1649
Bicycle driving mechanism	W. E. Taft	614,999	Nov. 29	3213	739	85	1301
Bicycle driving mechanism	R. Thompson	607,968	July 26	2666	569	84	569
Bicycle equalizing appliance	A. I. Thayer	607,667	July 19	2101	438	84	443
Bicycle. Folding	W. H. Percival	598,811	Feb. 8	1257	304	82	858
Bicycle. Folding	M. B. Ryan	599,016	Feb. 15	1625	384	82	945
Bicycle-fork	D. L. Kelly	609,937	Aug. 30	3256	761	84	1348
Bicycle fork-head	F. B. Case	604,724	May 31	2766	632	83	1221
Bicycle fork side	E. Ivins	602,012	Apr. 5	734	157	83	139
Bicycle fork side	E. Ivins	602,013	Apr. 5	735	157	83	139
Bicycle-frame	W. H. Evans	604,743	May 31	2795	639	83	1226
Bicycle-frame	M. L. Hall	612,337	Oct. 11	1321	318	85	265
Bicycle-frame	G. W. Miltimore	616,681	Dec. 27	2746	638	85	1991
Bicycle-frame	J. R. Nagell	604,838	May 31	2946	673	88	1255
Bicycle-frame	F. H. Nies and W. Dunn	611,077	Sept. 20	1670	383	84	1798
Bicycle-frame	B. P. Ryder	603,289	May 3	76	20	83	616
Bicycle-frame	A. B. Simonds	602,369	Apr. 12	1347	300	83	272
Bicycle-frame	W. X. Stevens	609,171	Aug. 16	1875	447	84	1046
Bicycle-frame	A. F. Temple	609,952	Aug. 30	3286	766	84	1354
Bicycle-frame	J. W. Wagner	615,768	Dec. 13	1012	235	85	1623
Bicycle-frame	J. M. Webster	611,399	Sept. 27	2316	534	84	1939
Bicycle-frame construction	J. Kenyon and G. Whewell	599,450	Feb. 22	2412	566	82	1118
Bicycle-frames. Machine for composing	R. Felsche	602,844	Apr. 26	2180	494	83	459
Bicycle-frames. Machine for setting up, drilling, and pinning	H. Keller	602,623	Apr. 19	1785	407	83	367
Bicycle-gear	D. W. Guiles	607,658	July 19	2087	436	84	440
Bicycle-gear	D. L. Harshner	608,674	Aug. 9	912	209	84	855
Bicycle-gear	G. T. Martin	613,697	Nov. 8	834	191	85	796
Bicycle-gear	E. J. O'Connor and E. R. Knowles	610,277	Sept. 6	262	55	84	1493
Bicycle-gear	W. H. Symonds	616,744	Dec. 27	2861	663	85	2023
Bicycle-gear	R. Whitman and O. C. Abbott	599,209	Feb. 15	1936	458	82	1003
Bicycle-gear	H. Wilburn	608,241	Aug. 2	129	31	84	680
Bicycle gear-case	F. H. Nies and W. Dunn	611,076	Sept. 20	1667	382	84	1797
Bicycle gear-case	R. Ramsay	613,469	Nov. 1	455	104	85	703
Bicycle gear-casing	C. H. Wills	599,884	Mar. 1	397	89	82	1289
Bicycle-gear-changing mechanism	W. B. Featherstone	598,336	Feb. 1	462	110	82	689
Bicycle gear-container and frame connection	M. L. Nichols	600,482	Mar. 8	1561	359	82	1535
Bicycle-gear. Differential	L. P. Cohen and H. C. Wolterreck	597,877	Jan. 25	2450	571	82	526
Bicycle-gearing	W. T. Branitzky	613,753	Nov. 8	953	218	85	818
Bicycle-gearing	W. Brown	609,077	Aug. 16	1694	403	84	1015
Bicycle-gearing	N. P. Cobb	607,218	July 12	1092	235	84	228
Bicycle-gearing	E. H. Godfray	608,770	Aug. 9	1072	246	84	885
Bicycle-gearing	M. P. Harrity	609,344	Aug. 16	2202	520	84	1113
Bicycle-gearing	C. A. Johnson	596,681	Jan. 4	393	88	82	78
Bicycle-gearing	F. P. Snow	616,268	Dec. 20	1966	457	85	1823
Bicycle-gearing	F. P. Snow	616,269	Dec. 20	1968	457	85	1829
Bicycle-gearing	V. Weber	607,149	July 12	966	209	84	204
Bicycle-gearing	J. B. Westhaver	609,314	Aug. 16	2157	510	84	1105



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Bicycle-gearing. Chainless.....	B. E. Siusser.....	609,471	Aug. 23	2431	569	84	1174
Bicycle-gearing. Multiple.....	M. A. Dibble.....	609,664	Aug. 23	2800	652 653	84	1245
Bicycle-governor.....	J. F. O'Mara.....	612,755	Oct. 18	2061	489	85	419
Bicycle-guard.....	D. W. Stevenson.....	599,406	Feb. 22	2322	549	82	1100
Bicycle-habit.....	S. A. Whan.....	597,133	Jan. 11	1188	279	82	247
Bicycle-handle.....	E. Anderson.....	608,566	Aug. 9	704	159	84	815
Bicycle-handle.....	H. L. Cavanagh.....	610,471	Sept. 6	618	138	84	1557
Bicycle-handle.....	C. J. Kintner.....	599,564	Feb. 22	2620	614	82	1158
Bicycle-handle.....	M. Wallis.....	604,444	May 24	2243	503 504	83	1105
Bicycle-handle. Adjustable.....	J. Hunter, A. Homewood, and R. Mahon.....	612,989	Oct. 25	2486	592	85	521
Bicycle handle-bar.....	N. A. Bille.....	608,021	July 26	2780	591	84	594
Bicycle handle-bar.....	G. J. Bungay.....	608,572	Aug. 9	716	164	84	818
Bicycle handle-bar.....	E. S. Clark.....	614,088	Nov. 15	1511	345	85	949
Bicycle handle-bar.....	E. L. Claus.....	612,193	Oct. 11	1060	255	85	217
Bicycle handle-bar.....	E. E. Crocker.....	603,177	Apr. 26	2742	624	83	567
Bicycle handle-bar.....	C. J. Dieterich.....	610,736	Sept. 13	1064	244 245	84	1664
Bicycle handle-bar.....	J. Grady.....	610,352	Sept. 6	406	87	84	1518
Bicycle handle-bar.....	G. S. Green.....	602,600	Apr. 19	1741	397	83	359
Bicycle handle-bar.....	F. E. Ingraham.....	597,001	Jan. 11	955	226	82	202
Bicycle handle-bar.....	H. H. Johnson.....	602,016	Apr. 5	739	159	83	140
Bicycle handle-bar.....	J. D. King.....	596,814	Jan. 4	633	146	82	122
Bicycle handle-bar.....	W. A. Marbach.....	615,868	Dec. 13	1168	273	85	1653
Bicycle handle-bar.....	F. M. Martyn.....	613,014	Oct. 25	2523	600	85	528
Bicycle handle-bar.....	E. W. McCready.....	601,813	Apr. 5	365	75	83	69
Bicycle handle-bar.....	S. Palmiter.....	599,301	Feb. 15	2093	495	82	1033
Bicycle handle-bar.....	E. Phipps.....	607,876	July 26	2509	532	84	539
Bicycle handle-bar.....	O. R. Pihl.....	599,793	Mar. 1	203	50	82	1253
Bicycle handle-bar.....	G. G. Powell.....	603,995	May 10	1361	309	83	882
Bicycle handle-bar.....	H. N. Ridgway.....	610,748	Sept. 13	1086	249	84	1668
Bicycle handle-bar.....	F. C. Rockwell.....	599,359	Feb. 22	2228	529	82	1081
Bicycle handle-bar.....	A. Ross.....	615,308	Dec. 6	150	40	85	1442
Bicycle handle-bar.....	F. W. H. Weishaupt.....	611,668	Oct. 4	136	34	85	29
Bicycle handle-bar. Adjustable.....	G. M. Beard.....	601,624	Apr. 5	2	1	83	3
Bicycle handle-bar. Adjustable.....	W. M. Blashfield.....	610,469	Sept. 6	615	138	84	1556
Bicycle handle-bar. Adjustable.....	W. C. Dayhoff.....	606,192	June 28	2141	491	83	1813
Bicycle handle-bar. Adjustable.....	E. H. Fredrick.....	613,673	Nov. 8	791	181	85	788
Bicycle handle-bar. Adjustable.....	J. F. Goodridge.....	610,132	Aug. 30	3594	833	84	1416
Bicycle handle-bar. Adjustable.....	E. S. Hall.....	537,801	Jan. 25	2331	544	82	502
Bicycle handle-bar. Adjustable.....	F. Johnson.....	602,015	Apr. 5	738	159	83	140
Bicycle handle-bar. Adjustable.....	C. F. Wilson.....	598,299	Feb. 1	409	96	82	679
Bicycle handle-bar and handle.....	G. H. Newell.....	602,095	Apr. 12	874	190	83	177
Bicycle handle-bar attachment.....	W. C. Spiker.....	614,774	Nov. 22	2767	632	85	1198
Bicycle-handle-bar clamp.....	W. G. Jones.....	614,004	Nov. 8	1370	312	85	899
Bicycle-handle-bar hand-grip.....	G. T. Bowman.....	615,793	Dec. 13	1054	247	85	1631
Bicycle-handle-bar handle.....	J. P. Wiens.....	599,084	Feb. 15	1724	409	82	966
Bicycle-handle-bars. Adjustable grip for.....	N. A. Bille.....	610,254	Sept. 6	205	46	84	1482
Bicycle-handle. Collapsible and adjustable.....	W. H. Cook.....	604,371	May 24	2117	475	83	1081
Bicycle-handle. Removable.....	J. C. Blanchard, Jr.....	605,626	June 14	1049	241	83	1572
Bicycle-handle shade.....	R. A. Wade.....	598,546	Feb. 8	819	196	82	776
Bicycle-hanger.....	J. L. Martin.....	610,656	Sept. 13	933	217	84	1637
Bicycle-holder.....	D. A. Brown and F. M. Williams.....	611,856	Oct. 4	462	111	85	93
Bicycle-holder.....	C. B. Durfee and F. M. Williams.....	607,024	July 12	697	151	84	157
Bicycle-holder.....	L. T. Martin.....	607,545	July 19	1876	389	84	402
Bicycle-holder.....	G. T. McIntosh.....	597,507	Jan. 18	1824	422	82	389
Bicycle-holder.....	L. H. Snyder.....	599,645	Feb. 22	2783	647	82	1190
Bicycle hub and bearing.....	J. Baker.....	607,727	July 19	2189	462	84	460
Bicycle-keeper.....	R. D. Bradley.....	605,628	June 14	1051	242	83	1572
Bicycle lamp and parcel holder.....	W. Howell, L. E. Carrier, and J. MacLagan.....	612,646	Oct. 18	1877	445	85	383
Bicycle-lamp attachment.....	C. F. Walker.....	599,409	Feb. 22	2325	550	82	1101
Bicycle-lamp bracket.....	N. W. Hartman.....	600,642	Mar. 15	1853	424	82	1611
Bicycle-lamp holder.....	J. W. Brazger.....	597,947	Jan. 25	2575	601	82	549
Bicycle lamp-holder.....	H. F. von Ketelhodt.....	609,149	Aug. 16	1835	435	84	1040
Bicycle. Land or water.....	R. Möller.....	615,871	Dec. 13	1171	273	85	1654
Bicycle-lock.....	M. Badoni.....	616,051	Dec. 13	1517	355	85	1722
Bicycle-lock.....	F. M. Bell.....	614,604	Nov. 22	2469	563	85	1139
Bicycle-lock.....	N. F. Benson.....	596,974	Jan. 11	909	214	82	194
Bicycle-lock.....	W. Blyer.....	615,659	Dec. 6	819	189 190	85	1574
Bicycle-lock.....	J. J. Deal.....	598,475	Feb. 1	692	168	82	734
Bicycle-lock.....	L. Dohm and C. H. Schlundt.....	606,650	July 5	24	5	84	7
Bicycle-lock.....	E. Franzke.....	600,962	Mar. 22	2394	546	82	1727
Bicycle-lock.....	J. S. Garner.....	601,464	Mar. 29	3282	742	82	1924
Bicycle-lock.....	J. J. Hall.....	599,143	Feb. 15	1827	433	82	983
Bicycle-lock.....	H. M. Hart.....	599,284	Feb. 15	2058	489	82	1027
Bicycle-lock.....	G. Johnson.....	616,845	Dec. 27	3030	704	85	2057
Bicycle-lock.....	A. Köhl.....	604,536	May 24	2121	551	83	1135
Bicycle-lock.....	L. T. Lapaugh.....	610,068	Aug. 30	3493	810	84	1395
Bicycle-lock.....	F. C. McDonald.....	601,856	Apr. 5	465	94	83	86
Bicycle-lock.....	C. H. Melquiond.....	611,757	Oct. 4	285	68	85	58
Bicycle-lock.....	I. W. Newman.....	598,326	Feb. 1	449	107	82	687
Bicycle-lock.....	W. Reehling.....	598,113	Feb. 1	73	17	82	616
Bicycle-lock.....	C. P. R. Schroeder.....	599,017	Feb. 15	1626	385	82	945
Bicycle-lock.....	W. Slingerland.....	601,047	Mar. 22	2536	577	82	1754
Bicycle-lock.....	W. I. L. Stearns.....	609,127	Aug. 16	1801	429	84	1033
Bicycle-lock.....	F. Stienen.....	607,142	July 12	953	207	81	202
Bicycle-lock.....	S. D. Talbert.....	601,599	Mar. 29	3493	796	82	1968
Bicycle-lock.....	E. E. Tryon.....	601,290	Mar. 29	2986	675	82	1868
Bicycle-lock.....	F. V. Walstrom and J. Erickson.....	608,163	July 26	3010	647	84	638
Bicycle lock and holder. Combined.....	D. Bowman.....	606,118	June 21	2004	459	83	1769
Bicycle lock and support.....	F. W. White.....	611,401	Sept. 27	2318	535	84	1939
Bicycle-lock. Automatic.....	G. L. Grass.....	602,397	Apr. 12	1402	316	83	282



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Bicycle-lock. Coin-operated	F. W. Beardsley and W. Calhoun	614,826	Nov. 29	2859	658	85	1231
Bicycle locking device	J. C. Barr	604,452	May 24	2258	507	83	1107
Bicycle locking device	F. H. Wright	603,780	May 10	964	216	83	804
Bicycle locking or securing device	T. Gilmer	608,769	Aug. 9	1070	245	84	884
Bicycle-locking stand	F. Eggers	598,175	Feb. 1	179	42	82	636
Bicycle lower rear fork and main driving-sprocket	F. P. Burnham	600,329	Mar. 8	1305	298	82	1488
Bicycle luggage-carrier	C. E. Beck	603,018	Apr. 26	2474	561	83	514
Bicycle luggage-carrier	C. J. Brown	601,701	Apr. 5	134	27	83	29
Bicycle luggage-carrier	N. O. Harman	611,905	Oct. 4	542	132	85	108
Bicycle luggage-carrier	J. C. Meehan	612,908	Oct. 25	2359	562	85	494
Bicycle luggage-carrier	R. Spencer	596,636	Jan. 4	315	68	82	65
Bicycle luggage-carrier	D. H. Streeper	610,288	Sept. 6	285	62	84	1496
Bicycle luggage-carrier	F. M. Ufford	606,796	July 5	303	63	84	60
Bicycle luggage-carrier	M. J. Ward	599,750	Mar. 1	129	29, 30	82	1240
Bicycle luggage-carrier and support	W. H. Marley	615,625	Dec. 6	756	174	85	1561
Bicycle luggage-rack	G. W. Schepman	610,244	Sept. 6	188	42	84	1478
Bicycle mechanical movement	V. Bélanger	605,844	June 21	1472	337	83	1670
Bicycle-motor. Air	J. L. Hansard and R. Hiatt	597,466	Jan. 18	1757	407	82	372
Bicycle motor attachment	C. C. Berck	597,255	Jan. 11	1380	322	82	283
Bicycle-motor. Pneumatic	E. A. Cozens	597,394	Jan. 18	1623	378	82	350
Bicycle mud-guard	W. B. Carpenter	598,312	Feb. 1	427	102	82	683
Bicycle mud-guard	W. G. Nutsford	597,471	Jan. 18	1764	408	82	376
Bicycle mud-guard	C. L. and A. L. Seaquest	606,091	June 21	1957	450	83	1760
Bicycle mud-guard stay	H. Jeffery and J. Moxon	614,954	Nov. 29	3132	718	85	1286
Bicycle mud-guards. Machine for making	G. L. Allen	608,313	Aug. 2	252	57 58 59	84	705
Bicycle or tricycle	W. F. Williams	603,545	May 3	560	123	83	709
Bicycle package-carrier	G. G. Clapham	601,946	Apr. 5	640	134	83	120
Bicycle package-carrier	J. M. Erwin	607,782	July 19	2284	482	84	478
Bicycle package-carrier	W. Hill	600,364	Mar. 8	1358	311	82	1498
Bicycle package-carrier	D. G. Knittel	610,404	Sept. 6	506	110	84	1536
Bicycle parcel-carrier	G. H. Henkel	598,513	Feb. 8	759	183	82	764
Bicycle parcel-carrier	O. W. Schaum	607,487	July 19	1775	369	84	384
Bicycle-pedal	C. Bickel	601,607	Mar. 29	3507	799	82	1970
Bicycle-pedal	C. Kerner, Jr	598,788	Feb. 8	1226	297	82	852
Bicycle-pedal	J. P. Lavigne	601,517	Mar. 29	3373	764	82	1943
Bicycle-pedal	J. P. Lavigne	601,518	Mar. 29	3375	764 765	82	1943
Bicycle-pedal	W. J. Lloyd and W. Priest	598,675	Feb. 8	1045	251 252	82	818
Bicycle-pedal	R. H. Ramsey	616,489	Dec. 27	2386	553	85	1932
Bicycle-pedal	A. Sidwell	615,505	Dec. 6	549	125	85	1518
Bicycle-pedal	J. E. A. Walker	616,167	Dec. 20	1768	409	85	1789
Bicycle pedal attachment	A. Wagner	615,595	Dec. 6	697	161	85	1549
Bicycle-pedal clip	A. L. Brice	605,536	June 14	862	202	83	1539
Bicycle-pedal toe-clip	A. W. Ashworth	613,957	Nov. 8	1288	292	85	882
Bicycle-pedal toe-clip	C. O. Nelson	608,620	Aug. 9	806	186	84	834
Bicycle-pedal toe-clip	C. O. Nelson. (Reissue)	11,698	Oct. 18	2175	517	85	441
Bicycle-pedal toe-clip attachment	W. A. Hill	615,217	Nov. 29	3652	838	85	1384
Bicycle power mechanism	C. T. Umsted	607,532	July 19	1847	384	84	397
Bicycle propelling mechanism	W. W. Brooks	611,557	Sept. 27	2604	600 601	84	1993
Bicycle-propelling mechanism	I. W. Conselyea	602,230	Apr. 12	1116	245	83	225
Bicycle-propelling mechanism	T. B. McDermott	603,281	May 3	64	16	83	613
Bicycle-propelling mechanism	T. R. Moore	612,568	Oct. 18	1722	408	85	354
Bicycle-propelling mechanism	E. Slipper	598,026	Jan. 25	2706	631	82	575
Bicycle propulsion	G. D. Adamson	604,891	May 31	3033	697	83	1272
Bicycle propulsion	E. W. Ericson	610,129	Aug. 30	3591	832	84	1416
Bicycle propulsion	W. E. Hartzell	616,665	Dec. 27	2717	631	85	1993
Bicycle protective seal	C. W. Davison	605,054	May 31	3307	759	83	1325
Bicycle-pump	O. Temple	597,226	Jan. 11	1336	312	82	275
Bicycle pump attachment	L. A. Payne	606,023	June 21	1828	421	83	1734
Bicycle-pump. Automatic	W. Metcalf	604,625	May 24	2573	586	83	1165
Bicycle-rack. Coin or check controlled	W. T. Summers	600,098	Mar. 1	865	199	82	1383
Bicycle-rack. Folding	F. and A. Walton	598,298	Feb. 1	408	96	82	679
Bicycle-racks. Electrically-actuated lock for	F. V. Walstrom and J. Erickson	597,891	Jan. 25	2470	577	82	529
Bicycle railway attachment	C. E. Nichols	606,073	June 21	1919	441	83	1751
Bicycle railway attachment	H. J. Otto and A. E. Wielsch	608,071	July 26	2861	612	84	610
Bicycle-rest	F. F. Hawkes	602,134	Apr. 12	938	205	83	189
Bicycle retainer and lock	J. Battersby	602,279	Apr. 12	1202	264	83	242
Bicycle-riders. Pipe-hanger and shield for	F. Skinner	605,142	June 7	161	40	83	1381
Bicycle-rim-bending machine	A. A. Ferguson	596,744	Jan. 4	514	118	82	100
Bicycle runner attachment	G. Sattler	607,088	July 12	860	186	84	185
Bicycle running-gear	S. G. Livingston	598,525	Feb. 8	787	189	82	769
Bicycle-saddle	F. C. Avery	604,955	May 31	3140	722	83	1294
Bicycle-saddle	W. J. Best	606,818	July 5	342	73	84	68
Bicycle-saddle	E. W. Bray	604,347	May 17	2072	464	83	1051
Bicycle-saddle	H. A. Christy	605,051	May 31	3303	758	83	1324
Bicycle-saddle	W. H. Craig	602,732	Apr. 19	1977	449	83	405
Bicycle-saddle	W. H. Craig	606,124	June 21	2014	461 462	83	1770
Bicycle-saddle	L. M. Devore	597,055	Jan. 11	1051	247	82	221
Bicycle-saddle	C. S. Drummond	602,839	Apr. 26	2170	492	83	456
Bicycle-saddle	A. L. Garford	612,769	Oct. 18	2092	496	85	424
Bicycle-saddle	H. G. Glover	609,616	Aug. 23	2708	632	84	1227
Bicycle-saddle	L. M. Hildreth	608,857	Aug. 9	1265	294 295	84	919
Bicycle-saddle	J. D. Hobbs	616,841	Dec. 27	3024	702	85	2056
Bicycle-saddle	J. A. Hunt	605,672	June 14	1130	262	83	1588
Bicycle-saddle	J. A. Hunt	605,673	June 14	1132	262 263	83	1588
Bicycle-saddle	J. A. Hunt	606,146	June 21	2057	471	83	1778
Bicycle-saddle	J. A. Hunt	607,565	July 19	1913	395 396	84	408



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Bicycle-saddle	J. A. Hunt	613,927	Nov. 8	1241	281	85	874
Bicycle-saddle	T. J. Kirkpatrick	605,689	June 14	1159	282	83	1594
Bicycle-saddle	G. A. Leech	612,972	Oct. 25	2460	587	85	516
Bicycle-saddle	L. D. Lovekin	615,077	Nov. 29	3368	772	85	1328
Bicycle-saddle	B. McGregor	613,295	Nov. 1	129	30	85	642
Bicycle-saddle	J. B. McManus	611,221	Sept. 20	1953	451	84	1851
Bicycle-saddle	J. W. Morgan	604,068	May 17	1541	346	83	949
Bicycle-saddle	C. E. Page	309,944	Aug. 30	3273	763	84	1351
Bicycle-saddle	A. E. Peck	599,729	Mar. 1	89	21	82	1233
Bicycle-saddle	A. E. Peck	615,223	Nov. 29	3664	840	85	1386
Bicycle-saddle	H. C. Phillips	607,191	July 12	1043	225	84	218
Bicycle-saddle	J. H. Poole	600,500	Mar. 8	1621	370	82	1548
Bicycle-saddle	G. A. Ross	612,215	Oct. 11	1102	264	85	226
Bicycle-saddle	H. A. Rusch	606,031	June 21	1841	421	83	1737
Bicycle-saddle	H. L. Schaffner	607,282	July 12	1223	261	84	253
Bicycle-saddle	H. L. Schaffner	607,283	July 12	1224	261	84	253
Bicycle-saddle	B. S. Seaman	606,393	June 28	2531	587	83	1890
Bicycle-saddle	W. S. Smith	610,614	Sept. 13	869	200	84	1324
Bicycle-saddle	J. F. Twist	605,151	June 7	171	43	83	1383
Bicycle-saddle	L. P. Wellmann	608,089	July 26	2889	618	84	616
Bicycle-saddle	B. F. Wheeler	613,050	Oct. 25	2583	613	85	540
Bicycle-saddle adjusting device and spring	C. F. Webber	607,148	July 12	965	203	84	203
Bicycle-saddle clamp	A. L. Garford	596,869	Jan. 4	725	170	82	141
Bicycle-saddle clamp	J. A. Hunt	601,890	Apr. 5	513	106	83	96
Bicycle-saddle clamp	J. C. Smith	606,689	July 5	96	21	84	21
Bicycle-saddle, Pneumatic	B. W. Davis	611,377	Sept. 27	2273	525	84	1931
Bicycle-saddle, Pneumatic	W. B. Standeford	612,552	Oct. 18	1688	401	85	349
Bicycle saddle-post	C. A. F. Berg	606,775	July 5	269	56	84	54
Bicycle saddle-post	A. L. Garford	596,699	Jan. 4	424	98	82	85
Bicycle saddle post and clamp	J. A. Hunt	609,234	Aug. 16	2004	476	84	1074
Bicycle-saddle support	A. F. Durbrow	600,686	Mar. 15	1941	442	82	1628
Bicycle-saddle support	E. Hathaway	609,964	Aug. 30	3318	772	84	1360
Bicycle safety device	G. Beekman	609,652	Aug. 23	2783	649	84	1241
Bicycle-seat	G. F. Barron	616,178	Dec. 20	1795	414	85	1794
Bicycle-seat	A. E. Hardy	597,674	Jan. 18	2095	490	82	441
Bicycle-seat	A. E. Peck and C. G. Hawley	603,734	May 10	885	197	83	789
Bicycle-seat	W. H. Thomas	606,314	June 28	2385	552	83	1863
Bicycle-seat attachment	H. A. Porter	603,735	May 10	887	197	83	789
Bicycle-seat clamp	B. S. Seaman	605,518	June 14	836	195	83	1534
Bicycle seat-post	P. J. Hindmarsh	600,365	Mar. 8	1360	311	82	1498
Bicycle seat-post	G. W. Lord	607,181	July 12	1024	222	81	214
Bicycle-seat, Supplemental	W. E. Mayo	604,699	May 24	2711	619	83	1191
Bicycle-seat support	J. M. Glennon	606,455	June 28	2652	610	83	1915
Bicycle separable frame	B. F. Barnes	607,325	July 12	1292	276	81	267
Bicycle shoulder-brace	D. T. Singleton	601,530	Mar. 29	3392	769	82	1947
Bicycle, Sociable	W. F. Williams	615,231	Nov. 29	3676	842	85	1389
Bicycle speed-indicator	W. E. Boyd	613,187	Oct. 25	2798	660	85	584
Bicycle speed-signal	G. Dittmar	608,511	Aug. 2	604	135	84	775
Bicycle spring-post	H. K. Brooks	599,291	Feb. 15	2075	492	82	1029
Bicycle sprocket-wheel	W. Grady	605,819	June 14	1401	321	83	1638
Bicycle-stall	E. S. Piper	597,510	Jan. 18	1828	423	82	389
Bicycle-stand	D. B. Austin	614,431	Nov. 22	2160	497	85	1085
Bicycle-stand	T. Beecher	611,672	Oct. 4	142	35	85	31
Bicycle-stand	J. F. Bengert	607,330	July 12	1307	279	84	270
Bicycle-stand	C. F. Burkhardt	603,422	May 3	309	69, 70	83	659
Bicycle-stand	L. M. Campau	614,442	Nov. 22	2180	500	85	1088
Bicycle-stand	G. C. Haubs	612,663	Oct. 18	1907	452	85	389
Bicycle-stand	W. H. Howard	605,429	June 7	708	158	83	1489
Bicycle-stand	P. W. Kirkpatrick	610,061	Aug. 30	3482	807	84	1393
Bicycle-stand	W. E. Leavitt	598,791	Feb. 8	1231	297	82	853
Bicycle-stand	W. C. McBurney and W. M. Robertson	602,665	Apr. 19	1870	425	83	384
Bicycle-stand	J. R. Moore	602,415	Apr. 12	1427	323	83	287
Bicycle-stand	G. B. Price	596,541	Jan. 4	139	32	82	29
Bicycle-stand	E. H. Webster	598,040	Jan. 25	2725	636	82	578
Bicycle stand and lock	I. B. Hewitt	599,607	Feb. 22	2707	633	82	1174
Bicycle-stand, Folding	H. L. White	598,547	Feb. 8	820	196	82	776
Bicycle-stand lock	D. B. Austin	614,433	Nov. 22	2163	497	85	1086
Bicycle-stand, Portable	H. J. Eichholz	612,320	Oct. 11	1295	312	85	259
Bicycle-steadying device	F. Barto	608,539	Aug. 2	651	147	84	784
Bicycle steering-gear	A. Doyle	615,961	Dec. 13	1351	316	85	1688
Bicycle steering-guide	J. A. Dunning and K. Barrow	606,525	June 28	2754	636	83	1936
Bicycle steering-head, Automatic	A. C. Garcia	605,417	June 7	694	154	83	1486
Bicycle-step	H. G. Borgfeldt	598,356	Feb. 1	490	117	82	694
Bicycle-step	A. R. Demory	615,533	Dec. 6	594	136	85	1527
Bicycle supplemental seat	R. M. Olyphant, Jr	596,786	Jan. 4	587	136	82	113
Bicycle-support	D. B. Austin	614,432	Nov. 22	2161	497	85	1085
Bicycle-support	S. S. Beebe	609,869	Aug. 30	3137	733	84	1325
Bicycle-support	J. Booth	608,749	Aug. 9	1037	238	84	878
Bicycle-support	O. P. Breithut	608,543	Aug. 2	657	150	84	785
Bicycle-support	G. E. Bundick	611,374	Sept. 27	2268	524	84	1930
Bicycle-support	J. S. Crawford	605,573	June 14	932	218	83	1552
Bicycle-support	J. J. Dix	604,246	May 17	1870	419	83	1013
Bicycle-support	H. H. Draper	606,128	June 21	2020	463	83	1771
Bicycle-support	F. Dunham	615,612	Dec. 6	730	168	85	1556
Bicycle-support	J. F. Furley and E. Forsyth	605,477	June 14	774	178	83	1522
Bicycle-support	A. I. Gallaway	607,795	July 19	2310	489	84	482
Bicycle-support	H. Geidt	602,318	Apr. 12	1266	280	83	255
Bicycle-support	M. Gutowitz	613,675	Nov. 8	792	181	85	788
Bicycle-support	C. B. Harkness	599,446	Feb. 22	2407	565	82	1117
Bicycle-support	G. Hipwood	610,536	Sept. 13	736	167	84	1596
Bicycle-support	J. P. Hobart	599,964	Mar. 1	533	122	82	1314



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Bicycle-support	W. J. Hosford	596,595	Jan. 4	246	54	82	49
Bicycle-support	W. E. Hunt	607,395	July 12	1418	303	84	291
Bicycle-support	J. H. Iler	605,433	June 7	712	159	83	1490
Bicycle-support	A. E. Jackson and P. J. Britten	608,393	Aug. 2	401	88, 89	84	735
Bicycle-support	M. Kelly	603,769	May 10	949	212	83	801
Bicycle-support	J. L. Knoll	610,186	Sept. 6	65	13	84	1453
Bicycle-support	C. Kordenat	612,666	Oct. 18	1912	452	85	390
Bicycle-support	B. C. Leonard	615,995	Dec. 13	1416	331	85	1701
Bicycle-support	A. W. Lewis	608,464	Aug. 2	527	117, 118	84	760
Bicycle-support	W. Metzrath	606,487	June 28	2697	621	83	1924
Bicycle-support	P. Person	606,578	June 28	2869	660	83	1958
Bicycle-support	C. C. Plaisted	602,141	Apr. 12	952	208	83	192
Bicycle-support	C. L. Raymond, Jr.	609,295	Aug. 16	2118	502	84	1096
Bicycle-support	C. W. Rogers	598,009	Jan. 25	2680	625	82	570
Bicycle-support	H. T. Sackett	602,270	Apr. 12	1180	259	83	237
Bicycle-support	I. H. Sapp	611,709	Oct. 4	205	49	85	43
Bicycle-support	C. H. Thurston	616,749	Dec. 27	2868	665	85	2024
Bicycle-support	G. S. Thurston	609,174	Aug. 16	1882	447	81	1047
Bicycle-support	E. A. Trapp	602,669	Apr. 19	1877	426, 427	83	386
Bicycle-support	E. A. Trapp	602,670	Apr. 19	1879	427	83	386
Bicycle-support	E. A. Trapp	602,784	Apr. 19	2056	466, 467	83	420
Bicycle-support	F. Walenta	610,005	Aug. 30	3394	787	84	1375
Bicycle-support	S. Welch and H. A. Burkhardt	607,779	July 19	2281	481	84	477
Bicycle-support	J. J. Whittle	601,109	Mar. 22	2635	602	82	1774
Bicycle-support	G. H. Williams	603,519	May 3	514	112, 113	83	699
Bicycle-support	W. F. Williams	616,384	Dec. 20	2175	507	85	1869
Bicycle-support	F. P. Wilson	614,642	Nov. 22	2536	578	85	1152
Bicycle support and lock	W. E. Jones	604,050	May 17	1502	337	83	942
Bicycle-support attachment	H. T. Sackett	614,503	Nov. 22	2290	525	85	1108
Bicycle-support. Locked	W. Wholton	612,077	Oct. 11	866	210, 211	85	179
Bicycle supporting attachment	A. T. Fenner	609,504	Aug. 23	2498	584	84	1187
Bicycle supporting attachment	G. T. Mackley	612,857	Oct. 25	2275	542	85	478
Bicycle-supporting device	E. Russ	608,798	Aug. 9	1124	261	84	893
Bicycle tandem attachment	T. V. Cowden	605,699	June 14	1177	271	83	1597
Bicycle tandem attachment	E. C. McFadden	599,859	Mar. 1	344	78	82	1278
Bicycle toe-clip	D. Basch	602,692	Apr. 19	1915	436	83	393
Bicycle toe-clip	H. W. Calvert	605,390	June 7	636	142	83	1474
Bicycle toe-clip	H. J. Condell	615,679	Dec. 13	852	196	85	1592
Bicycle toe-clip	S. Halligan	596,810	Jan. 4	627	145	82	121
Bicycle tool-case	L. H. Knopping	604,988	May 31	3190	734	83	1303
Bicycle tool holder or carrier	J. O. Glase	604,210	May 17	1806	406	83	1001
Bicycle-trainer	G. W. Tarver	602,546	Apr. 19	1650	375	83	343
Bicycle-trainer	H. Vogeler	604,200	May 17	1790	403	83	998
Bicycle-transporting frame	P. Neumann	613,773	Nov. 8	984	225	85	824
Bicycle-tread.	E. B. Phillips	614,496	Nov. 22	2282	522	85	1107
Bicycle-tubes. Tool for joining	E. Taylor	611,802	Oct. 4	360	87	85	73
Bicycle tubular joint	R. Felsche	615,976	Dec. 13	1373	321	85	1693
Bicycle umbrella-support	H. J. Abernathy	611,190	Sept. 20	1884	435	84	1839
Bicycle-valve and valve connection	W. H. Carpenter	601,460	Mar. 29	3277	740	82	1923
Bicycle-wheel	J. F. Barnett, Jr.	614,283	Nov. 15	1874	433	85	1016
Bicycle-wheel	J. F. Barnett	614,284	Nov. 15	1875	433	85	1016
Bicycle-wheel	J. D. Bowley	598,850	Feb. 8	1319	319	82	870
Bicycle-wheel	J. Brown	602,552	Apr. 19	1660	377	83	345
Bicycle-wheel	J. Coefield	612,308	Oct. 11	1274	307	85	256
Bicycle-wheel	G. Hayes	604,883	May 31	3025	694, 695	83	1271
Bicycle-wheel	G. Hayes	609,542	Aug. 23	2558	599	84	1199
Bicycle-wheel	G. Hayes	610,743	Sept. 13	1074	247	84	1665
Bicycle-wheel	M. C. Oviatt	603,574	May 3	601	134	83	718
Bicycle-wheel	J. Probst	597,431	Jan. 18	1683	390	82	360
Bicycle-wheel belt	W. F. Glidden	605,181	June 7	221	54	83	1393
Bicycle-wheel-guard cleaner	H. S. Miller	611,699	Oct. 4	194	45	85	41
Bicycle-wheel hub	P. L. Hussey	611,787	Oct. 4	337	81	85	68
Bicycle-wheel hub	C. E. McGlinchey	614,334	Nov. 15	1972	455	85	1035
Bicycle-wheel rim	I. S. McGiehan	612,171	Oct. 11	1029	248	85	211
Bicycles, &c. Adjustable back-support for seats of	J. M. Gilbert	601,250	Mar. 29	2893	660	82	1850
Bicycles. Axleless sprocket for	J. P. Archdeacon	605,214	June 7	288	66, 67	83	1405
Bicycles, &c. Carrier for	W. M. Tegart	606,367	June 28	2485	577	83	1881
Bicycles, &c. Changeable gear for	F. H. Murphy and M. R. Pierce	614,969	Nov. 29	3152	724, 725	85	1289
Bicycles, &c. Chain adjustment for	G. S. Webb	609,062	Aug. 16	1670	397	84	1011
Bicycles. Device for temporarily disabling	C. Trautner	605,981	June 21	1741	400	83	1720
Bicycles, &c. Frame for	L. Sturges	614,905	Nov. 29	3018	691	85	1260
Bicycles, &c. Joint for	J. H. Harrell	598,202	Feb. 1	235	52	82	646
Bicycles, &c. Lamp-bracket and brake for	J. K. Van Brunt	612,536	Oct. 18	1654	393	85	342
Bicycles, &c. Mechanism for indicating travel of	W. E. Stubbs	601,686	Apr. 5	113	22	83	24
Bicycles. Multiplying-gear for	C. Eickemeyer	601,507	Mar. 29	3355	760	82	1939
Bicycles, &c. Pedal for	M. Matthews	599,619	Feb. 22	2724	637	82	1178
Bicycles, &c. Pedal mechanism for	C. Meier	613,456	Nov. 1	438	100	85	700
Bicycles, &c. Propelling means for	H. Cavicchi	605,392	June 7	640	143	83	1474
Bicycles, &c. Propelling mechanism for	L. Burgess	610,382	Sept. 6	471	103	84	1529
Bicycles, &c. Propelling mechanism for	Z. T. Ubil	610,956	Sept. 20	1460	334	84	1758
Bicycles, &c. Saddle for	A. J. Leimbürg	612,546	Oct. 18	1673	398	85	345
Bicycles, &c. Seat or saddle support for	S. C. Whitlow	602,389	Apr. 12	1383	309	83	278
Bicycles, &c. Supporting and locking appliance for	G. Browning	611,589	Sept. 27	2672	616, 617	84	2005
Bicycles, &c. Tool-box for	O. N. Deutsch and H. E. Dorn	607,599	July 19	1974	410	84	420
Bicycles. Variable gear for	O. Luther	601,574	Mar. 29	3454	785	82	1960
Bill-hook	H. D. Studabaker	615,921	Dec. 13	1273	297	85	1673
Bill or toilet paper holder	F. Schilz	610,245	Sept. 6	189	42	84	1478



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Billet-making machine.....	E. D. Phillips.....	614,622	Nov. 22	2497	570	85	1145
Billiard-chalk holder.....	G. B. Sieverling.....	605,683	June 14	1147	571	83	1591
Billiard-cue.....	J. W. Farrand.....	610,131	Aug. 30	3593	833	84	1416
Billiard-cue.....	B. Hutzel.....	608,457	Aug. 2	514	115	84	758
Billiard-cue.....	F. Leu.....	605,253	June 7	374	84	83	1422
Billiard-cue tip.....	H. A. Kennedy.....	614,006	Nov. 8	1372	313	85	900
Billiard-cue tip.....	F. Young and H. Bundy.....	609,381	Aug. 16	2255	533	84	1123
Billiard-cue-tip fastener.....	P. B. Tarver.....	601,913	Apr. 5	559	115	83	106
Billiard-cue tips. Device for chalking.....	W. Knoll.....	602,541	Apr. 19	1642	374	83	341
Billiard-cushion.....	M. Bensinger.....	612,765	Oct. 18	2083	494	85	422
Billiard-cushion.....	W. E. Taft.....	599,371	Feb. 22	2245	533	82	1085
Billiard or pool tables. Pneumatic cushion for.....	W. F. Stebbins.....	603,490	May 3	460	102	83	689
Billiard-table.....	A. Hand.....	605,872	June 21	1526	351	83	1680
Billiard-table cushion.....	T. R. S. Bullock.....	613,407	Nov. 1	356	82	85	683
Billiard-table frame.....	J. Dockstader.....	606,196	June 28	2148	493	83	1815
Bin: See Flour-bin. Meal and flour bin. Grain-bin.							
Bin.....	E. J. Walker.....	614,279	Nov. 15	1869	432	85	1015
Bin and show-case for seeds, vegetables, &c.....	D. Lloyd.....	599,105	Feb. 15	1767	419	82	973
Bin for powdered material.....	C. Irish.....	604,937	May 31	3117	716	83	1289
Binder.....	J. J. Gilmore.....	602,742	Apr. 19	1993	452	83	407
Binder.....	W. F. Grigsby.....	602,443	Apr. 19	1479	338	83	311
Binder.....	F. M. Hoglen.....	614,170	Nov. 15	1652	380	85	975
Binder.....	T. Wright.....	608,312	Aug. 2	251	57	84	705
Binder and lock. Temporary.....	H. E. Dade.....	604,561	May 24	2466	561	83	1144
Binder and sheet.....	J. S. Ham.....	614,386	Nov. 15	2068	476	85	1054
Binder. File-case.....	F. P. Hubbard.....	611,365	Sept. 27	2244	518	84	1925
Binder for leaves.....	F. E. Robinson.....	605,975	June 21	1733	399	83	1719
Binder for loose sheets.....	W. M. Russell.....	605,916	June 21	1617	372	83	1698
Binder for sheet-music, &c.....	H. E. Veit.....	606,434	June 28	2618	603	83	1909
Binder. Order.....	C. A. O. Haavrig.....	615,551	Dec. 6	629	144	85	1534
Binder. Temporary.....	J. R. Barrett.....	601,994	Apr. 5	707	150	83	133
Binder. Temporary.....	N. Edson.....	603,500	May 3	475	106	83	692
Binder. Temporary.....	T. Faifer.....	612,563	Oct. 18	1714	406	85	353
Binder. Temporary.....	L. M. Leslie.....	603,428	May 3	320	72	83	661
Binder. Temporary.....	J. S. Murray.....	613,070	Oct. 25	2617	619	85	548
Binder. Temporary.....	J. E. Woodworth.....	604,817	May 31	2909	665	83	1248
Binder tension device. Twine.....	J. Lauritsen.....	609,106	Aug. 16	1770	421	84	1027
Binding. Brush skirt.....	A. S. Waitzfelder.....	606,983	July 5	602	131	84	119
Binding implement.....	C. E. Allshouse.....	599,486	Feb. 22	2184	583	82	1131
Binding-machine lift.....	O. J. Andreasen.....	612,301	Oct. 11	1260	304	85	254
Binding-post.....	J. P. Jones.....	615,455	Dec. 6	446	105	85	1498
Binding. Skirt.....	L. F. Howe.....	599,041	Feb. 15	1666	394	82	954
Biscuit-cutting apparatus.....	E. Carr.....	615,804	Dec. 13	1069	251	85	1634
Bismuth methylene-digallate and making it.....	E. Dürkopf.....	605,246	June 7	352	83	1418	
Bismuth-oxyiodin tannate.....	J. Schmid.....	604,571	May 24	2491	88	1149	
Bit: See Bridle-bit. Mortising-bit. Cutter-bit. Overcheck-bit. Drill-bit. Rosette-cutting bit.							
Bit.....	M. Steudner.....	599,537	Feb. 22	2564	602	82	1146
Bit-brace.....	F. M. Sturgis.....	609,478	Aug. 23	2460	574	84	1181
Bit-stock.....	M. Barber.....	603,825	May 10	1057	236	83	823
Bit-stock.....	K. L. Marlin.....	596,604	Jan. 4	261	58	82	52
Bit-stock wrench. Expansion.....	P. S. Grenier.....	612,924	Oct. 25	2386	568	85	501
Bituminous material. Exploitation and conveyance of.....	A. F. L. Bell.....	596,468	Jan. 4	3	2	82	3
Blackboard.....	G. Glasmachers.....	603,631	May 10	720	160	83	757
Blackboard.....	M. D. L. McCollum.....	616,799	Dec. 27	2952	688	85	2041
Blackboard.....	G. J. Schneider and K. F. G. Brenner.....	604,422	May 24	2202	494	83	1097
Blackboard and desk. Combined.....	L. W. Yaggy.....	600,629	Mar. 15	1835	420	82	1608
Blackboard-cleaner.....	L. A. Peck.....	602,266	Apr. 12	1174	258	83	237
Blacking outfit. Pocket shoe.....	L. W. Weaver.....	603,982	May 10	1325	304	83	874
Blacking stands. Foot-rest for boot.....	F. Müller.....	610,363	Sept. 6	425	91, 92	84	1521
Black-plate. Manufacture of.....	W. H. Donner.....	615,535	Dec. 6	596	136	85	1528
Blank for negotiable instruments.....	J. J. Kulage.....	600,917	Mar. 22	2323	529	82	1713
Blank threading and pointing machine.....	J. H. Haskins.....	602,506	Apr. 19	1575	360	83	330
Blanking, forming, and piercing die.....	W. R. Fox.....	614,379	Nov. 15	2054	474	85	1051
Blast-furnace.....	E. Kelly and H. B. Weaver.....	602,947	Apr. 26	2362	539	83	494
Blast-furnace.....	J. W. Nesmith.....	612,754	Oct. 18	2058	488	85	418
Blast-furnace.....	A. Wolski.....	598,128	Feb. 1	95	22	82	620
Blasting compound.....	W. P. Ferguson.....	598,064	Jan. 25	2768	82	587	
Blasting implement.....	J. Mino and W. Day.....	610,305	Sept. 6	317	68	84	1502
Blasting-tool. Combination.....	G. Laws.....	605,727	June 14	1215	281	83	1604
Bleaching-boiler. Rotary.....	B. D. Rising.....	604,086	May 17	1580	353	83	956
Bleaching-powder. Process of and apparatus for making.....	V. C. Driffield, A. Carey, and F. W. Wright.....	610,265	Sept. 6	222	50	84	1485
Blind-fastener.....	E. P. Chappell.....	599,222	Feb. 15	1952	463	82	1906
Blind-fastener.....	J. Chase.....	601,552	Mar. 29	3425	777	82	1955
Blind-fastening.....	A. J. Curtis.....	607,220	July 12	1097	236	84	229
Blind for arched windows. Collapsible.....	G. Wells.....	602,967	Apr. 26	2393	545	83	500
Blind mounting. Window.....	G. Benson.....	612,812	Oct. 25	2183	519	85	462
Blind-slat fastener.....	J. D. Hood and S. J. Bailey.....	600,330	Mar. 8	1306	299	82	1488
Blind-slat operating and locking device.....	G. H. Hamalian.....	598,600	Feb. 8	912	219	82	794
Blind-slating machine.....	J. A. Edgcomb.....	600,524	Mar. 15	1667	380	82	1576
Blind. Venetian.....	P. W. Brundin.....	601,612	Mar. 29	3515	801	82	1971
Blind. Venetian awning.....	J. G. Wilson.....	614,595	Nov. 22	2448	558	85	1135



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Blinds. Means for operating and supporting Venetian	J. G. Wilson .....	597,046	Jan 11	1033	244	82	217
Block:							
See Building-block.	Pulley-block.						
Bump-block.	Tackle-block.						
Geometrical block.	Thrust-block.						
Pillow-block.	Wood block.						
Block and tackle .....	C. S. Kershaw .....	609,438	Aug. 23	2361	557	84	1163
Block system. Electric .....	F. Burger .....	602,208	Apr. 12	1081	237	83	217
Blotter-bath and absorbent composition therefor .....	F. L. Fairbank and T. N. Cantril ..	603,841	May 10	1091	244	83	828
Blotter-holder .....	S. E. Barr .....	614,644	Nov. 22	2539	579	85	1153
Blotting or drying writing. Apparatus for .....	E. Moulard and J. Guény .....	609,158	Aug. 16	1852	440	84	1042
Blow tester. Fist .....	C. Lee .....	600,431	Mar. 8	1464	334	82	1518
Blower .....	N. E. Funk .....	599,778	Mar. 1	179	44	82	1249
Blower. Powder .....	W. E. Gibney .....	599,038	Feb. 15	1662	393	82	954
Blower. Rotary .....	T. W. Green .....	601,136	Mar. 22	2676	612	82	1782
Blower. Rotary .....	N. W. McIntosh .....	608,377	Aug. 2	369	81	84	729
Blowpipe .....	H. Dock .....	615,960	Dec. 13	1349	316	85	1688
Blowpipe .....	C. H. King .....	601,208	Mar. 22	2807	642	82	1806
Blowpipe .....	W. M. Tillman .....	605,935	June 21	1647	378	83	1703
Blowpipe .....	A. M. Woltz .....	609,067	Aug. 16	1680	400	84	1013
Blowpipe and burner. Combined gasolene .....	M. C. Park .....	596,536	Jan. 4	131	30	82	28
Bluing device. Clothes- .....	F. W. Rabbi and R. C. W. Lett .....	600,953	Mar. 22	2380	542	82	1725
Board:							
See Advertising-board.	Metal-bound board.						
Blackboard.	Pastry-board.						
Bread and pastry board.	Plaiting-board.						
Bulletin-board.	Plaster-board.						
Clip-board.	Plow-moldboard.						
Cribbage-board.	Pressing and ironing board.						
Dashboard.	Sand-board.						
Drawing-board.	Scoop-board.						
Embalming and cooling board.	Wagon shoveling-board.						
Game-board.	Washboard.						
Ironing-board.	Whist-board.						
Board-clamp .....	W. Jordan .....	607,567	July 19	1918	397	84	408
Boat .....	D. Ahern .....	608,565	Aug. 9	703	159	84	815
Boat .....	M. V. B. Evesson .....	597,195	Jan. 11	1286	301	82	266
Boat .....	J. Hatfield and F. A. Rivers .....	598,089	Feb. 1	32	8	82	609
Boat .....	J. Kautz .....	603,469	May 3	404	90	83	679
Boat .....	J. W. Nowak .....	600,483	Mar. 8	1563	359	82	1536
Boat .....	E. Verburg .....	597,595	Jan. 18	1965	457	82	418
Boat and sled. Combined .....	W. A. Kirby .....	613,576	Nov. 1	641	149	85	738
Boat. Collapsible .....	M. T. Reade .....	605,513	June 14	828	192	83	1532
Boat-detaching device .....	B. Lobee .....	612,740	Oct. 18	2032	483	85	413
Boat. Foot-propelled .....	J. and C. Quist .....	596,685	Jan. 4	401	91	82	80
Boat hoisting or lowering apparatus .....	R. H. Agnew .....	602,611	Apr. 19	1757	401	83	362
Boat-launching device .....	A. Cappellini .....	609,532	Aug. 23	2542	595	84	1196
Boat. Life- .....	A. Henry .....	602,684	Apr. 19	1902	433	83	390
Boat. Life- .....	E. J. Hough .....	603,596	May 3	639	142	83	726
Boat. Life- .....	F. N. Lyons .....	610,547	Sept. 13	757	172	84	1600
Boat. Life- .....	W. W. McGwire .....	602,912	Apr. 26	2294	523	83	480
Boat. Life- .....	J. Mitchell, Sr .....	603,532	May 3	544	120	83	705
Boat. Life- .....	A. F. Pendleton .....	611,021	Sept. 20	1581	362	84	1781
Boat. Life- .....	W. C. Peters .....	613,074	Oct. 25	2625	621	85	549
Boat. Portable folding .....	G. W. Henry .....	598,989	Feb. 15	1576	374	82	936
Boat. Row- .....	T. H. Brosnihan .....	609,956	Aug. 30	3301	769	84	1357
Boat. Submarine .....	G. W. Bennum .....	604,185	May 17	1764	397	83	993
Boat. Submarine .....	R. Lincoln .....	615,866	Dec. 13	1165	272	85	1653
Boat. Surf- .....	L. W. Stevens .....	603,211	Apr. 26	2795	638	83	576
Boats. Construction and propulsion of .....	H. R. Shaw .....	615,757	Dec. 13	984	229	85	1618
Boats. Guideway for sliding-seat row- .....	F. J. Steinhäuser .....	599,811	Mar. 1	259	58	82	1262
Bobbin .....	H. D. Kleins .....	602,260	Apr. 12	1166	256	83	235
Bobbin .....	G. Pendleton, Jr .....	602,240	Apr. 12	1130	248	83	227
Bobbin .....	G. Pendleton, Jr .....	602,241	Apr. 12	1131	248	83	227
Bobbin-holder .....	W. E. Morton .....	614,488	Nov. 22	2270	519	85	1105
Bobbin. Sheet-metal .....	J. A. Sutcliffe .....	602,183	Apr. 12	1037	227	83	209
Boiler:							
See Agricultural boiler.	Stand-boiler.						
Bleaching-boiler.	Stationary boiler.						
Clothing-boiler.	Steam-boiler.						
Cooking-boiler.	Steam and hot-water boiler.						
Cornish boiler.	Steam-generator boiler.						
Egg-boiler.	Steam or hot-water boiler.						
Furnace-boiler.	Tubular boiler.						
Heating-boiler.	Washboiler.						
Hot-water boiler.	Water-tube boiler.						
Hot-water and steam boiler.	Water-tube safety-boiler.						
Marine boiler.							
Range-boiler.							
Sectional boiler.							
Boiler .....	T. G. Britton .....	596,979	Jan. 11	918	217	82	195
Boiler .....	B. P. Emery .....	605,410	June 7	682	151	83	1484
Boiler .....	F. A. Gardiner .....	603,877	May 10	1160	261	83	842
Boiler .....	C. C. Hansen .....	597,438	Jan. 18	1808	419	82	385
Boiler .....	R. W. Innes .....	598,374	Feb. 1	521	126	82	701



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Boiler	P. and J. J. Meehan	612,909	Oct. 25	2360	562	85	494
Boiler	E. D. Meier and H. G. Tidemann	610,969	Sept. 20	1480	563	84	1762
Boiler	J. J. O'Brien	600,443	Mar. 8	1488	339	82	1522
Boiler	J. A. Stevens	616,154	Dec. 20	1739	402	85	1781
Boiler	J. A. Stevens	616,155	Dec. 20	1742	403	85	1782
Boiler	W. W. J. Toussaint	598,686	Feb. 8	1070	258	82	822
Boiler	C. G. W. Wernicke	616,380	Dec. 20	2070	505	85	1868
Boiler air-feeding apparatus.	J. S. Newlin	606,072	June 21	1916	440	83	1751
Boiler and furnace	J. J. de Kinder and A. C. Wood	603,089	Apr. 26	2601	591	83	537
Boiler and furnace	J. A. Stevens	616,157	Dec. 20	1748	592	85	1784
Boiler attachment. Steam-	A. Griesse	606,384	June 28	2518	404	83	1887
Boiler attachment. Steam-	N. G. Herreshoff	600,223	Mar. 8	1125	257	82	1455
Boiler blow-off device.	W. G. Tyson	613,093	Oct. 25	2656	628	85	555
Boiler-brace	A. F. Huston	605,432	June 7	711	159	83	1490
Boiler-check and blow-off cock. Combined.	W. McIntosh	615,881	Dec. 13	1186	277	85	1657
Boiler-cleaner	F. T. Andrews and W. R. Johnson	609,400	Aug. 23	2302	544	84	1151
Boiler-cleaner	J. J. Crall	610,703	Sept. 13	1006	234	84	1652
Boiler-cleaner and filter	W. Dougherty	607,004	July 5	657	143	84	130
Boiler cleaner. Water-tube-	S. B. Murdock	614,881	Nov. 29	2973	682	85	1252
Boiler-cleaning apparatus	J. Stephenson	609,845	Aug. 30	3100	723	84	1318
Boiler-cleaning apparatus. Steam-	J. C. Burneson and O. G. Richey	596,571	Jan. 4	194	44	82	39
Boiler-cleaning device. Tubular-	M. J. Howlett	598,249	Feb. 1	313	72	82	661
Boiler-covering.	G. Kelly	602,454	Apr. 19	1498	342	83	314
Boiler firing device	M. Häussler	600,673	Mar. 15	1919	436	82	1624
Boiler-flue cleaner	W. L. Casaday	615,427	Dec. 6	395	95	85	1490
Boiler-flue cleaner	N. B. Hamilton	611,904	Oct. 4	541	131	85	108
Boiler-flue cleaner	H. L. Hildreth	604,047	May 17	1497	337	83	942
Boiler-flue cleaner	L. Krueger	597,421	Jan. 18	1666	387	82	357
Boiler-flue cleaner	W. Semke	606,093	June 21	1960	451	83	1760
Boiler-flue cleaner. Rotary	R. G. Bidwell	599,825	Mar. 1	288	65	82	1267
Boiler-flue cleaner. Steam-	A. A. Hull	600,286	Mar. 8	1238	281	82	1475
Boiler-flue cleaner. Steam-	H. J. Johnson	604,397	May 24	2154	484	83	1088
Boiler-flues. Device for removing scale from	H. Lauer	601,151	Mar. 22	2701	621	82	1786
Boiler for steam heating apparatus	H. J. Spencer	601,818	Apr. 5	371	78	83	70
Boiler-furnace	M. A. Castoe	613,968	Nov. 8	1307	297	85	886
Boiler-furnace	E. Docteur	600,613	Aug. 23	2705	630	84	1226
Boiler-furnace	J. W. Harmel and W. J. Galloway	605,281	June 7	426	96	83	1433
Boiler-furnace	F. F. Parsons	601,880	Apr. 5	501	103	83	94
Boiler-furnace	T. H. Sears	597,027	Jan. 11	995	234	82	210
Boiler-furnace	D. H. Streeter	616,369	Dec. 20	2144	499	85	1864
Boiler-furnace	T. Weinhardt	598,061	Jan. 25	2763	644	82	586
Boiler-furnace. Downdraft	G. H. Watson	613,614	Nov. 1	704	163	85	750
Boiler furnace. Steam-	C. N. Bacon	600,603	Mar. 15	1797	411	82	1600
Boiler furnace. Steam-	E. J. Elms	607,738	July 19	2208	467	84	464
Boiler furnace. Steam-	T. Hineson	602,755	Apr. 19	2011	455	83	411
Boiler furnace. Steam-	J. V. Kenny	598,997	Feb. 15	1587	456	82	938
Boiler furnace. Steam-	W. Kent	604,158	May 17	1705	376	83	981
Boiler furnace. Steam-	L. F. Lyne	615,291	Dec. 6	127	34	85	1437
Boiler furnace. Steam-	W. S. Mackenzie and W. Crosland	608,059	July 26	2843	606	84	606
Boiler furnace. Steam-	O. D. Orvis	611,975	Oct. 4	659	160	85	129
Boiler furnace. Steam-	H. Sieben	613,785	Nov. 8	1000	229	85	827
Boiler furnace. Steam-	B. W. Tucker	611,661	Oct. 4	120	29	85	26
Boiler furnace. Water-tube-	A. Pillatt	605,511	June 14	826	192	83	1532
Boiler-gage	N. H. Hiller	613,447	Nov. 1	425	97	85	697
Boiler gage-glass protector	G. J. J. Manvell	599,511	Feb. 22	2525	594	82	1139
Boiler grate. Steam-	A. Davy and J. Edey	606,191	June 28	2140	491	83	1813
Boiler incrustations. Composition for removing	G. Linde	605,320	June 7	500		83	1448
Boiler mud and scale receptacle. Steam-	B. Haskell	615,549	Dec. 6	626	143	85	1533
Boiler or other furnace	W. D. Hamilton	614,102	Nov. 15	1532	351	85	953
Boiler safety device. Steam-	D. A. Reagan	600,271	Mar. 8	1217	276	82	1471
Boiler-setting	L. Bernhard	602,717	Apr. 19	1955	444	83	401
Boiler setting. Steam-	E. S. T. Kennedy and J. H. Williams	611,219	Sept. 20	1948	449	84	1850
Boiler signal. Steam-	H. Bechtel and L. Fritz	601,699	Apr. 5	131	26	83	28
Boiler-stand	F. V. Winters	600,903	Mar. 22	2300	524	82	1709
Boiler-tester	L. Kaczander	616,539	Dec. 27	2473	573	85	1948
Boiler-tube cleaner	F. W. Bradley	608,418	Aug. 2	454	101	84	746
Boiler-tube cleaner	W. D. Forsyth and E. T. Bell	605,951	June 21	1681	386	83	1709
Boiler-tube cleaner	E. F. Gwynn	607,169	July 12	1094	218	84	211
Boiler-tube ferrule	G. W. Duvall	611,959	Oct. 4	630	153	85	123
Boiler-tubes. Cutter for trimming or cutting	J. C. Morrison	605,501	June 14	813	188	83	1529
Boiler-tubes. Device for removing scale from	E. F. Gwynn	597,409	Jan. 18	1644	382	82	353
Boiler-tubes. Device for removing scale from	E. F. Gwynn	607,168	July 12	1003	218	84	211
Boiler water-indicator. Steam-	T. V. Fleming	598,985	Feb. 15	1570	373	82	935
Boiler water-indicator. Steam-	J. Kempf	601,617	Mar. 29	3521	803	82	1973
Boilers. Automatic draft-regulator for steam-	E. K. Hutchison	597,375	Jan. 11	1588	368	82	327
Boilers. Coupling-nut for stand-	F. V. Winters	607,316	July 12	1277	272	84	263
Boilers. Device for keeping lids on	M. R. Brown	608,103	July 26	2911	623	84	620
Boilers in case of rupture of pipe. Apparatus for preventing escape of steam from	L. M. V. Blanc	597,810	Jan. 25	2341	547	82	505
Boilers. Reinforced head for range-	H. S. Reynolds	614,892	Nov. 29	2995	687	85	1256
Boilers. Shield for air-tubes in fire-boxes for steam-	G. W. Stevens	607,896	July 26	2543	539	84	545



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Boilers. Smoke and gas returning apparatus for steam-	P. Strauss	596,638	Jan. 4	317	69	82	63
Bolster	C. E. Bauer	601,032	Mar. 22	2516	572	82	1750
Bolster	G. L. Harvey	614,323	Nov. 15	1956	451	85	1032
Bolster. Metal	C. E. Bauer	604,556	May 24	2458	559	83	1142
Bolster-spring	J. F. Bohier	610,841	Sept. 13	1256	290	84	1703
Bolster-stool	J. F. Hennessy	610,050	Aug. 30	3465	803	84	1389
Bolt:							
See Expansion-bolt.	Seal-bolt.						
Extension-bolt.	Socket-bolt.						
Hanger-bolt.	Stay-bolt.						
Lock-bolt.	Thill coupling-bolt.						
Locking-bolt.							
Bolt	T. P. Russell	608,717	Aug. 9	984	226	84	868
Bolt	J. H. Williams	610,638	Sept. 13	909	208	84	1632
Bolt and nut	J. J. Harrell	614,169	Nov. 15	1651	379	85	975
Bolt-case	H. B. Sargent	602,271	Apr. 12	1182	259	83	238
Bolt-clipper	P. Broadbooks	615,956	Dec. 13	1343	314	85	1686
Bolt-cutter	O. A. Hoak	616,105	Dec. 20	1631	382	85	1762
Bolt-cutter	J. R. Rambo	598,439	Feb. 1	638	157	82	724
Bolt-fastening	C. Garnett	604,896	May 31	3043	698	83	1274
Bolt fastening. Expansion-	J. Dean	612,489	Oct. 18	1583	378	85	328
Bolt-heading machine	F. W. Bruch	607,157	July 12	981	212	84	206
Bolt-holder	J. S. Higdon	615,273	Dec. 6	97	26	85	1432
Bolt-holder	E. B. Parsons	616,350	Dec. 20	2113	492	85	1858
Bolt-lock	M. E. Robertson	611,941	Oct. 4	603	146	85	118
Bolt protector. Stay-	F. J. Coins	604,369	May 24	2114	475	83	1080
Bolt-replacing device	M. P. Lawrence	597,005	Jan. 11	963	228	82	204
Bolt socket. King-	H. C. Swan	614,256	Nov. 15	1834	424	85	1008
Bolting-machine	A. Bosanko	605,946	June 21	1674	383	83	1708
Bolting-machine	J. G. Hintz, Jr.	597,412	Jan. 18	1647	383	82	353
Bonding and tying	J. Bennett	605,468	June 14	761	174	83	1519
Bone-black kiln	B. Eba	612,319	Oct. 11	1289	311	85	258
Bone-casing tape	E. Markie	598,734	Feb. 8	1147	275	82	837
Bone cutter. Green-	H. A. Hannum	610,531	Sept. 13	727	165	84	1595
Bone-cutting machine	C. Trick	610,335	Sept. 6	377	79	84	1512
Bonnet or hat	R. A. Bliss	612,796	Oct. 18	2143	509	85	435
Book. Account-	J. F. Brown and A. O. Kittredge	598,590	Feb. 8	895	215	82	790
Book. Account-	J. Eichert	604,521	May 24	2392	543	83	1130
Book. Account-keeping	T. G. Knight	610,451	Sept. 6	578	128	84	1549
Book-backs. Elastic inlay for.	G. B. Soelberg	598,185	Feb. 1	199	46	82	640
Bookbinder	D. C. McCalib	598,738	Feb. 8	1152	277	82	898
Bookbinder. Loose-leaf	A. Opalla	606,978	July 5	594	130	84	118
Bookbinding	W. Bochner	607,012	July 12	680	148	84	155
Bookbinding	J. E. Hewett	602,401	Apr. 12	1408	317	83	284
Bookbinding	J. E. Wales	605,364	June 7	599	133	83	1465
Book binding. Blank-	W. B. Boorum	606,116	June 21	2002	459	83	1769
Bookbinding-machine	F. P. Hill	604,170	May 17	1731	389	83	986
Bookbinding-machine	J. McClellan	603,406	May 3	280	62.63	83	654
Book. Blank-	N. M. Barnes	600,253	Mar. 8	1183	268	82	1464
Book. Blank-	T. Elliott	604,522	May 24	2393	544	83	1130
Book. Copy-	J. A. Bowen	601,393	Mar. 29	3163	715	82	1901
Book-cover. Removable	R. L. Akins	609,072	Aug. 16	1686	401	84	1014
Book-cover. Reversible	T. D. Foster	614,426	Nov. 15	2152	495	85	1069
Book cover. Writing-	C. J. Ainsworth	606,180	June 28	2119	487	83	1809
Book-fastener	L. W. Noyes	615,301	Dec. 6	143	38	85	1441
Book-holder	A. C. Bisbee	597,704	Jan. 25	2154	504	82	469
Book-holder	A. L. Platt	602,169	Apr. 12	1015	223	83	204
Book-holder	M. E. Spielman	603,603	May 10	770	171	83	766
Book-holder and clamp	A. Colton	599,282	Feb. 15	2056	489	82	1026
Book-holder and leaf-turner	R. K. McDonald	615,879	Dec. 13	1178	276	85	1656
Book. Manifold-	G. E. Doughty	612,197	Oct. 11	1066	256	85	218
Book. Manifold-	H. Whitfield	606,321	June 28	2397	555	83	1865
Book. Manifolding cash-sales	J. H. Murphy	602,405	Apr. 12	1411	319	83	284
Book. Manifolding pass-	W. F. Beck and F. C. Ruffhead	611,600	Oct. 4	8	2	85	4
Book. Manifolding sales-	A. Quortrup	598,255	Feb. 1	322	74	82	663
Book-marker, leaf-holder, and paper-knife. Combination	E. Apperley	597,796	Jan. 25	2323	541	82	501
Book. Note-	C. H. Hastings	608,286	Aug. 2	203	48	84	695
Book-rest	C. E. Stewart	616,367	Dec. 20	2142	498	85	1864
Book-rest and fan. Combined	B. Sherman	599,574	Feb. 22	2642	619	82	1161
Book-rest or desk. Rotatable	F. Knoedler	611,916	Oct. 4	558	136	85	110
Book-rest. Revolving	P. N. de Duboeay	602,736	Apr. 19	1985	450	83	406
Book. Sales-	H. Kirkwood	600,369	Mar. 8	1367	312	82	1499
Book. Sales-recording check-	W. H. Northall and F. W. Schepman	603,571	May 3	598	133	83	717
Book. Sales-slip	F. J. Shepherd	613,047	Oct. 25	2572	610	85	539
Book. Sample-exhibiting	S. Muhhauser	596,607	Jan. 4	265	59	82	53
Book. Scrap or sample.	E. M. Anderson	602,817	Apr. 26	2141	486	83	451
Book. Shipping-	F. C. Johnson	612,928	Oct. 25	2391	569	85	501
Book-support	J. A. Lofstedt	602,164	Apr. 12	1008	221	83	203
Book-support	W. F. Frazee	608,515	Aug. 2	612	137	84	777
Book-support	J. S. Smith	607,890	July 26	2536	537	84	544
Book-support. Sheet-metal	J. S. Smith	607,891	July 26	2537	538	84	544
Book. Wall-	G. R. Pease	606,233	June 28	2234	513	83	1831
Books, boxes, &c. Method of and apparatus for veneering with celluloid covers and corners of	A. C. Hafely, J. Redlefsen, and C. A. Happe	601,214	Mar. 22	2518	644	82	1808
Books, &c. Cover for	W. B. Hadley	614,302	Nov. 15	1903	439	85	1021
Books, papers, &c. Appliance for supporting	H. B. Watson	607,496	July 19	1788	372	84	386
Boom	C. O'Brien	607,269	July 12	1193	255	84	246
Boot and shoe treeing machine	A. N. Ebbersten	599,773	Mar. 1	173	42.43	82	1248
Boot-cleaner	W. F. Wagner and O. B. Olin	609,217	Aug. 16	1964	466	84	1065
Bootjack	J. Anderson	612,764	Oct. 18	2081	494	85	422
Bootjack	C. F. Spaid	611,043	Sept. 20	1614	369	84	1787



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr:g.	Vol.	Page.
Bootjack .....	H. Strate .....	606,947	July 5	542	119	84	108
Bootjack .....	I. A. Youngberg and J. O. Nord ..	609,603	Aug. 23	2670	623	84	1219
Boot or shoe .....	C. Balcom .....	605,623	June 14	1045	240	83	1571
Boot or shoe .....	W. Lawes .....	615,069	Nov. 29	3354	769	85	1326
Boot or shoe .....	F. McDonald .....	598,385	Feb. 1	537	131	82	704
Boot or shoe .....	F. McDonald .....	607,188	July 12	1038	224	84	217
Boot or shoe .....	T. A. Molloy and L. Kirchner .....	597,524	Jan. 18	1847	428	82	393
Boot or shoe cleaner .....	A. Reeves and A. W. Johnson .....	600,376	Mar. 8	1374	314	82	1501
Boot or shoe cover and cover-holder ..	C. H. Smith .....	599,133	Feb. 15	1813	431	82	981
Boot or shoe making machines. Combined spanker and breaster for .....	W. Higgins .....	600,264	Mar. 8	1204	273 274	82	1468
Boot or shoe nailing machine .....	W. E. Bailey .....	598,890	Feb. 15	1391	335 336	82	901
Boot or shoe nailing machine .....	A. Newton .....	599,627	Feb. 22	2751	640 641	82	1185
Boot or shoe polishing device .....	J. B. Miller .....	615,566	Dec. 6	651	149	85	1539
Boot or shoe rack .....	S. L. Saunders .....	597,862	Jan. 25	2431	566	82	522
Boot or shoe shank .....	W. N. Sprague .....	603,367	May 3	207	47	83	641
Boot or shoe stretcher .....	C. H. Prescott .....	607,192	July 12	1044	225	84	218
Boot or shoe stretcher .....	C. C. Thompson .....	599,951	Mar. 1	514	116	82	1310
Boot or shoe toe-protector .....	R. S. Simister .....	616,810	Dec. 27	2969	692	85	2045
Boot or shoe tree and top-stretcher. Combined ..	A. D. Tyler, Jr. ....	615,002	Nov. 29	3215	739	85	1301
Boot or shoe tongue .....	G. T. Woodside .....	601,192	Mar. 22	2782	637	82	1801
Boot or shoe treeing machine .....	H. G. Locke .....	612,114	Oct. 11	931	226	85	192
Boot or shoe trees. Fore part for .....	O. I. Howe .....	610,235	Sept. 6	177	40	84	1476
Boot or shoe. Ventilated .....	J. E. Kennedy .....	616,112	Dec. 20	1644	384	85	1764
Boot or shoe. Ventilated .....	P. Stayert .....	607,289	July 12	1232	263	84	254
Boot or shoe work trimming machine .....	B. F. Mayo .....	609,519	Aug. 23	2521	590	84	1192
Boot-tree .....	L. Frazer .....	609,339	Aug. 16	2195	518 519	84	1112
Boot-tree .....	T. G. Stevens .....	615,320	Dec. 6	168	44	85	1445
Boot-tree .....	W. W. Watts .....	610,506	Sept. 6	689	155	84	1571
Boot tree or stretcher .....	P. J. Parmiter .....	608,396	Aug. 2	410	90	84	737
Boot. Wool .....	E. Roos .....	602,407	Apr. 12	1414	319	83	285
Boots. Device for pulling off felt .....	O. W. Morley .....	615,872	Dec. 13	1172	274	85	1655
Boots or shoes. Device for preserving or restoring shape of .....	T. Austin .....	599,091	Feb. 15	1735	411	82	967
Boring and mortising machine .....	W. J. Hutson .....	613,008	Oct. 25	2515	599	85	527
Boring and pipe-laying apparatus. Earth- ..	G. T. Latta .....	607,999	July 26	2723	582	84	580
Boring and shaping machine tool-holder .....	W. Thau .....	603,748	May 10	912	202	83	794
Boring and turning machine. Upright .....	L. H. Colburn .....	599,551	Feb. 22	2593	608 609	82	1152
Boring and turning mill .....	G. W. Moreton .....	612,783	Oct. 18	2122	504	85	430
Boring apparatus rods. Lowering device for ..	A. Raky .....	616,586	Dec. 27	2549	589 590	85	1961
Boring conical holes. Tool for .....	L. F. C. Rich .....	605,259	June 7	390	88	83	1426
Boring-drill .....	J. Nitschmann .....	599,914	Mar. 1	456	102	82	1300
Boring implement for frozen earth .....	E. H. Dyer .....	607,229	July 12	1123	240	84	233
Boring machine. Automatic overhead joist- ..	J. C. Bonnett .....	596,471	Jan. 4	8	3	82	4
Boring machine. Dowel-hole- .....	J. Yerkes .....	609,567	Aug. 23	2600	608 609	84	1207
Boring-machine. Multiple .....	W. W. Green .....	596,772	Jan. 4	563	129 130	82	108
Boring tapering holes. Tool for .....	I. W. Mason .....	603,531	May 3	543	119	83	705
Boring-tool .....	F. Brunner .....	613,660	Nov. 8	773	177	85	785
Boring-tool .....	H. Hill .....	602,449	Apr. 19	1490	340	83	313
Boring-tool .....	T. Russell .....	616,496	Dec. 27	2404	557	85	1935
Bosom-pad .....	D. Harrison .....	599,180	Feb. 15	1387	447	82	993
Bottle .....	D. P. Arnillas .....	603,017	Apr. 26	2472	561	83	514
Bottle .....	J. C. Bean .....	615,951	Dec. 13	1333	312	85	1684
Bottle .....	O. V. Blazier .....	603,019	Apr. 26	2475	562	83	514
Bottle .....	H. Breitenstein .....	600,632	Mar. 15	1840	421	82	1609
Bottle .....	J. L. Burton .....	615,800	Dec. 13	1062	250	85	1633
Bottle .....	A. R. Campbell .....	604,720	May 31	2762	631	83	1220
Bottle .....	J. P. Chaplen and T. M. Mills .....	600,064	Mar. 1	801	183	82	1371
Bottle .....	U. O. Crane .....	607,345	July 12	1331	284	84	275
Bottle .....	M. Fardy .....	615,348	Dec. 6	236	56	85	1460
Bottle .....	W. A. Fries, Sr. ....	603,527	May 3	535	118	83	703
Bottle .....	W. H. Fulcher .....	596,746	Jan. 4	517	118	82	100
Bottle .....	L. H. Griste .....	598,923	Feb. 15	1454	348	82	912
Bottle .....	J. T. Holland .....	606,665	July 5	54	12	84	13
Bottle .....	M. F. Hudson .....	616,710	Dec. 27	2803	650	85	2010
Bottle .....	L. Kievit .....	599,711	Mar. 1	64	15	82	1228
Bottle .....	L. K. Larrison .....	602,338	Apr. 12	1295	287	83	261
Bottle .....	P. Lindemeyr .....	603,108	Apr. 26	2631	597 598	83	544
Bottle .....	A. Mazzanovich .....	604,120	May 17	1641	368	83	968
Bottle .....	J. Merigan .....	611,368	Sept. 27	2247	519	84	1927
Bottle .....	F. L. Meyer .....	604,062	May 17	1534	345	83	948
Bottle .....	C. J. Moore .....	610,362	Sept. 6	424	91	84	1520
Bottle .....	E. Moore .....	599,285	Feb. 15	2060	489	82	1027
Bottle .....	R. E. Morrison .....	614,487	Nov. 22	2268	519	85	1104
Bottle .....	O. G. Ogden .....	601,102	Mar. 22	2623	598	82	1771
Bottle .....	J. C. Patterson .....	604,193	May 17	1777	400 401	83	996
Bottle .....	A. T. Plummer .....	601,166	Mar. 22	2728	628	82	1791
Bottle .....	J. P. Redding, Jr. ....	599,916	Mar. 1	460	103	82	1301
Bottle .....	E. Towers .....	603,350	May 3	184	42	83	637
Bottle .....	J. Van Develde .....	610,695	Sept. 13	996	231	84	1650
Bottle .....	H. Weil .....	601,919	Apr. 5	567	117	83	108
Bottle .....	H. Weil .....	616,379	Dec. 20	2169	505	85	1868
Bottle .....	W. Wilson .....	601,848	Apr. 5	448	90	83	83
Bottle .....	W. H. Young and J. F. Godley .....	600,108	Mar. 1	883	203	82	1387
Bottle and cap .....	J. F. Kries .....	603,958	May 10	1292	295	83	868
Bottle and closure .....	H. P. P. Grow .....	596,588	Jan. 4	226	50	82	45
Bottle and seal. Non-refillable .....	A. J. Jose .....	604,328	May 17	2026	454	83	1043



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bottle and stopper .....	J. W. McDougall .....	599,624	Feb. 22	2731	638	82	1179
Bottle. Antirefillable .....	E. F. Soderquist and F. A. McAdams .....	600,560	Mar. 15	1727	394	82	1587
Bottle. Antirefilling .....	L. Felumb .....	597,898	Jan. 25	2481	579	82	531
Bottle attachment .....	A. G. Smalley .....	601,988	Apr. 5	699	148	83	132
Bottle attachment .....	G. H. Woodward .....	612,296	Oct. 11	1252	302	85	252
Bottle attachment. Mucilage .....	L. H. Thomas .....	599,461	Feb. 22	2434	572	82	1121
Bottle-cap .....	L. G. Flanigan .....	614,942	Nov. 29	3103	712	85	1279
Bottle-cap .....	A. Mazzanovich .....	613,288	Nov. 1	118	27	85	639
Bottle-cap .....	W. A. Scholey and F. C. Schrader .....	606,588	June 28	2887	668	83	1961
Bottle-cap fastener .....	P. Lindemeyr .....	609,393	Aug. 16	2285	540	84	1129
Bottle-caps. Art of and apparatus for introducing and securing packing in .....	P. Lindemeyr .....	615,725	Dec. 13	930	216	85	1608
Bottle-capper and cork-presser .....	A. Dollfus .....	602,836	Apr. 26	2166	491	83	456
Bottle-capping machine .....	P. Lindemeyr .....	603,107	Apr. 26	2630	597	83	543
Bottle-closure .....	S. K. Dennis .....	613,836	Nov. 8	1092	249	85	844
Bottle-closure .....	L. G. Flanigan .....	616,529	Dec. 27	2460	569	85	1945
Bottle-closure .....	P. H. McGrath .....	604,629	May 24	2581	589	83	1167
Bottle-closure .....	W. Painter .....	615,099	Nov. 29	3406	781	85	1335
Bottle-closure .....	J. H. Wittekind .....	599,886	Mar. 1	402	89	82	1289
Bottle-corking machine .....	G. G. Brown .....	610,381	Sept. 6	466	102	84	1528
Bottle filler-guard .....	C. N. Farnam .....	609,988	Aug. 30	3368	783	84	1370
Bottle filling and corking machine .....	W. M. Fowler .....	606,005	June 21	1786	409	83	1728
Bottle-filling apparatus .....	H. Staub and C. Duerst. (Reissue) .....	11,667	May 31	3334	766	83	1330
Bottle-filling machine .....	T. Norton .....	609,290	Aug. 16	2108	500	84	1094
Bottle for holding spirits or other liquids and aerated waters separated until bottle is opened. .....	C. S. Smith .....	611,520	Sept. 27	2532	585	84	1980
Bottle holder. Adjustable nursing- .....	G. W. McCollom .....	601,732	Apr. 5	213	42	83	41
Bottle holder and stopper .....	E. A. Parker .....	615,460	Dec. 6	457	107	85	1500
Bottle holder. Nursery- .....	J. W. Sykes. (Reissue) .....	11,665	May 17	2089	468	83	1055
Bottle holder. Nursing- .....	A. C. Buck .....	611,857	Oct. 4	463	111	85	93
Bottle holder. Nursing- .....	R. A. Lake .....	602,991	Apr. 26	2433	555	83	506
Bottle, &c., indicator .....	W. N. Thompson .....	599,156	Feb. 15	1851	439	82	987
Bottle. Ink- .....	W. H. Chadderton .....	614,289	Nov. 15	1882	435	85	1018
Bottle, jar, or other vessel or reservoir for containing and delivering liquids. Earthenware or glass .....	G. J. Chambers and A. Basden .....	599,095	Feb. 15	1741	412	82	969
Bottle. Lock- .....	G. W. Betjemann and W. Candland .....	610,794	Sept. 13	1183	273	84	1688
Bottle-locking device .....	S. Adler .....	600,055	Mar. 1	789	180	82	1368
Bottle. Mucilage .....	L. F. Anschutz .....	597,350	Jan. 11	1538	359	82	316
Bottle. Mucilage .....	M. P. Brennan .....	604,245	May 17	1869	419	83	1012
Bottle. Mucilage .....	P. E. Daniels .....	598,474	Feb. 1	691	168	82	734
Bottle. Mucilage .....	R. C. Dickerman .....	596,485	Jan. 4	32	8	82	9
Bottle. Mucilage .....	T. A. Fick .....	605,636	June 14	1064	245	83	1575
Bottle. Mucilage .....	C. M. Pratt .....	598,575	Feb. 8	872	209	82	786
Bottle. Mucilage or blacking .....	A. Hosfeld .....	611,485	Sept. 27	2476	571	84	1968
Bottle nipple. Nursing- .....	A. Clement and W. E. Wilkinson .....	605,161	June 7	188	48	83	1386
Bottle nipple. Nursing- .....	W. R. Coulbourn and J. J. Lankford .....	609,415	Aug. 23	2326	549	84	1156
Bottle nipple. Nursing- .....	A. McTernan .....	615,095	Nov. 29	3398	779	85	1333
Bottle. Non-refillable .....	M. Barci .....	612,961	Oct. 25	2440	581	85	512
Bottle. Non-refillable .....	G. J. Barnes .....	615,208	Nov. 29	3630	834	85	1380
Bottle. Non-refillable .....	W. J. Barrett .....	597,095	Jan. 11	1129	267	82	236
Bottle. Non-refillable .....	D. M. Beal .....	601,117	Mar. 22	2648	604	82	1776
Bottle. Non-refillable .....	J. W. Bear .....	605,843	June 21	1471	337	83	1669
Bottle. Non-refillable .....	W. S. Bechtold .....	597,135	Jan. 11	1190	279	82	248
Bottle. Non-refillable .....	E. C. Bowne .....	606,507	June 28	2726	629	83	1930
Bottle. Non-refillable .....	W. H. Caldwell .....	611,831	Oct. 4	419	100	85	83
Bottle. Non-refillable .....	E. A. Clair .....	608,650	Aug. 9	867	200	84	845
Bottle. Non-refillable .....	H. G. Dodds .....	609,736	Aug. 23	2909	681	84	1267
Bottle. Non-refillable .....	P. Doflein and K. Billing .....	606,758	July 5	231	49	84	47
Bottle. Non-refillable .....	S. W. Durham .....	608,957	Aug. 9	1447	343	84	953
Bottle. Non-refillable .....	A. Fairhurst .....	607,923	July 26	2592	550	84	555
Bottle. Non-refillable .....	H. C. Fuhlmann .....	602,156	Apr. 12	996	218	83	201
Bottle. Non-refillable .....	A. Gartshore .....	597,280	Jan. 11	1414	332	82	291
Bottle. Non-refillable .....	G. Giordano .....	609,507	Aug. 23	2502	585	84	1188
Bottle. Non-refillable .....	E. E. Gore .....	608,118	July 26	2932	628	84	624
Bottle. Non-refillable .....	G. E. and C. F. Henry .....	605,227	June 7	316	72, 73	83	1411
Bottle. Non-refillable .....	G. Highfield .....	603,235	Apr. 26	2846	649	83	585
Bottle. Non-refillable .....	F. Hill .....	598,782	Feb. 8	1217	295	82	850
Bottle. Non-refillable .....	J. A. Holman .....	599,077	Feb. 15	1716	407	82	964
Bottle. Non-refillable .....	G. Ipson .....	602,850	Apr. 26	2191	497	83	461
Bottle. Non-refillable .....	A. T. Lainson .....	597,117	Jan. 11	1162	273	82	242
Bottle. Non-refillable .....	A. M. Legrand .....	608,879	Aug. 9	1298	303	84	926
Bottle. Non-refillable .....	W. E. Lutz .....	615,081	Nov. 29	3374	773	85	1329
Bottle. Non-refillable .....	N. A. Lybeck .....	616,126	Dec. 20	1673	390	85	1768
Bottle. Non-refillable .....	J. B. Marshall .....	603,110	Apr. 26	2635	598	83	544
Bottle. Non-refillable .....	J. McCafferty .....	606,293	June 28	2344	543	83	1855
Bottle. Non-refillable .....	J. H. McDonald .....	604,497	May 24	2353	534	83	1123
Bottle. Non-refillable .....	J. H. McDonald .....	615,878	Dec. 13	1177	276	85	1656
Bottle. Non-refillable .....	L. W. Merriam .....	599,185	Feb. 15	1894	448	82	994
Bottle. Non-refillable .....	A. F. Mott and H. S. Dunn, Jr. ....	603,701	May 10	834	185	83	779
Bottle. Non-refillable .....	D. Myers .....	599,972	Mar. 1	546	125	82	1316
Bottle. Non-refillable .....	L. de Nucci .....	610,874	Sept. 13	1321	303	84	1717
Bottle. Non-refillable .....	I. M. Phelps .....	596,615	Jan. 4	279	61	82	56
Bottle. Non-refillable .....	C. C. Richmond .....	599,254	Feb. 15	2008	476	82	1017
Bottle. Non-refillable .....	E. Rodier .....	604,845	May 31	2958	677	83	1257
Bottle. Non-refillable .....	F. Rouland .....	598,117	Feb. 1	77	18	82	617
Bottle. Non-refillable .....	P. J. Scharbach .....	612,574	Oct. 18	1735	411	85	357
Bottle. Non-refillable .....	G. E. Smith .....	597,030	Jan. 11	999	235	82	210
Bottle. Non-refillable .....	E. M. Spining .....	596,969	Jan. 4	896	211	82	175



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bottle. Non-refillable	H. Starck	610,311	Sept. 6	326	70	84	1504
Bottle. Non-refillable	H. Strawson	606,309	June 28	2377	550	83	1861
Bottle. Non-refillable	C. O. Swickard	611,718	Oct. 4	227	56	85	46
Bottle. Non-refillable	R. F. Tattersall	597,474	Jan. 18	1770	409	82	378
Bottle. Non-refillable	J. A. Trimble	606,256	June 28	2283	528	83	1842
Bottle. Non-refillable	A. Trudeau	615,001	Nov. 29	3214	739	85	1301
Bottle. Non-refillable	W. C. Van Horn	612,288	Oct. 11	1244	299	85	250
Bottle. Non-refillable	W. G. Webster	605,591	June 14	969	224	83	1559
Bottle. Non-refillable	S. S. Whitaker	609,716	Aug. 23	2884	674	84	1262
Bottle. Non-refillable	E. Wilbur	615,601	Dec. 6	708	163	85	1551
Bottle. Non-refillable	A. N. Woodard	604,104	May 17	1615	362	83	964
Bottle. Non-refilling	D. A. Gilliom	597,767	Jan. 25	2255	525	82	488
Bottle. Non-refilling	C. H. Goebel	609,271	Aug. 16	2074	492	84	1088
Bottle. Non-refilling	G. H. Williams	602,811	Apr. 19	2117	477	83	431
Bottle. Nursing-	L. T. Lapaugh	608,053	July 26	2834	604	84	604
Bottle. Nursing-	R. Roderick	598,231	Feb. 1	281	63	82	656
Bottle opening or closing device	C. Kemper	615,487	Dec. 6	502	116 117	85	1509
Bottle or flask	H. Struben	600,339	Mar. 8	1320	302	82	1491
Bottle or ice-compress. Hot-water	J. F. Morrill	611,207	Sept. 20	1915	442	84	1844
Bottle or jar closure	J. H. Hettinger and B. P. Kincaid	603,640	May 10	735	164	83	759
Bottle or jar stopper	J. Rau	615,305	Dec. 6	147	39	85	1442
Bottle or similar receptacle	E. Hoffman and R. P. Frist	613,371	Nov. 1	277	63	85	671
Bottle or similar vessel	G. A. Diemer	604,929	May 31	3104	714	83	1286
Bottle-packing case	B. W. Atwood	599,311	Feb. 22	2132	506	82	1063
Bottle-packing case	C. A. Rohdin	596,944	Jan. 4	854	200	82	166
Bottle-packing envelop	J. R. O'Reilly	616,583	Dec. 27	2545	589	85	1960
Bottle-protector	J. L. Elsass	598,596	Feb. 8	904	217	82	793
Bottle. Safety-	J. J. McComish	603,114	Apr. 26	2644	600	83	547
Bottle. Safety-	J. J. McComish	609,115	Aug. 16	1783	424	84	1030
Bottle sealing attachment	R. Hearn	598,929	Feb. 15	1463	350	82	913
Bottle. Self-sealing	T. W. Ryan	603,795	May 10	997	223	83	811
Bottle spout attachment	W. S. How	599,784	Mar. 1	189	47	82	1251
Bottle-stopper	A. Backhaus	601,698	Apr. 5	130	26	83	28
Bottle-stopper	J. Bernels	603,034	Apr. 26	2499	567	83	519
Bottle-stopper	L. H. Broome	603,724	May 10	871	193	83	787
Bottle-stopper	L. H. Broome	603,725	May 10	873	194	83	787
Bottle-stopper	L. H. Broome	614,828	Nov. 29	2863	658	85	1231
Bottle-stopper	L. H. Broome	615,606	Dec. 6	717	165	85	1553
Bottle-stopper	L. H. Broome	615,607	Dec. 6	719	165	85	1554
Bottle-stopper	L. H. Broome	616,598	Dec. 27	2566	595	85	1964
Bottle-stopper	C. De Quillfeldt	610,721	Sept. 13	1042	240	84	1666
Bottle-stopper	J. Deitsch	613,125	Oct. 25	2701	638	85	564
Bottle-stopper	J. A. Donahue	599,226	Feb. 15	1957	464	82	1007
Bottle-stopper	P. G. Hercht	605,481	June 14	780	179	83	1523
Bottle-stopper	T. Howard	613,066	Oct. 25	2612	618	85	547
Bottle-stopper	F. A. Keimer	600,725	Mar. 15	2007	457	82	1641
Bottle-stopper	E. T. Knight	597,852	Jan. 25	2409	561	82	518
Bottle-stopper	G. Koch	598,050	Jan. 25	2745	640	82	582
Bottle-stopper	A. Lamontagne, Jr	614,056	Nov. 8	1440	331	85	914
Bottle-stopper	N. Lindbergh	606,290	June 28	2339	541	83	1853
Bottle-stopper	P. Lindemeyr	603,364	May 3	204	46	83	641
Bottle-stopper	E. L. Lloyd	603,908	May 10	1213	275	83	852
Bottle-stopper	G. W. Mason	605,966	June 21	1718	394	83	1716
Bottle, &c., stopper	C. J. Muldoon	608,296	Aug. 2	220	51	84	698
Bottle-stopper	J. B. Neuendorf	598,952	Feb. 15	1510	359	82	923
Bottle-stopper	W. Painter. (Reissue)	11,685	July 26	3018	649	84	639
Bottle-stopper	E. A. Parker	604,259	May 17	1891	423	83	1016
Bottle-stopper	J. F. Perry	605,908	June 21	1589	365	83	1693
Bottle-stopper	H. L. Phillips	610,198	Sept. 6	84	17	84	1456
Bottle-stopper	U. L. Rife	612,676	Oct. 18	1926	456	85	393
Bottle-stopper	F. T. Robinson	599,112	Feb. 15	1776	422	82	974
Bottle-stopper	E. J. Schindehütte	612,652	Oct. 18	1885	446	85	385
Bottle-stopper	L. A. Scholz	607,285	July 12	1227	262	84	253
Bottle-stopper	E. M. O. Seaman	610,149	Aug. 30	3616	840	84	1421
Bottle-stopper	F. L. Siegel	615,639	Dec. 6	784	181	85	1568
Bottle-stopper	A. Voelker	600,901	Mar. 22	2299	524	82	1709
Bottle-stopper	W. Walker	604,443	May 24	2243	503	83	1105
Bottle stopper and pour-out	L. H. Thomas	599,460	Feb. 22	2433	572	82	1121
Bottle-stopper. Automatic	T. M. Sanderlin	599,258	Feb. 15	2013	477	82	1018
Bottle-stopper dust-guard	G. Knieriemien	601,058	Mar. 22	2559	584	82	1759
Bottle-stopper guard	J. A. Hensler	610,535	Sept. 13	735	167	84	1596
Bottle-stopper remover	E. R. Buhrman	597,874	Jan. 25	2446	570	82	525
Bottle-stoppers, &c. Fastening device for	L. Kost and E. Guocchi	609,815	Aug. 30	3048	713	84	1306
Bottle-stoppers. Feed-chute for crown	F. O. Woodland	613,349	Nov. 1	238	53	85	663
Bottle-stoppering device	L. C. Webster	603,304	May 3	100	24	83	621
Bottle-stoppering-machine feed device	N. Muslar	612,865	Oct. 25	2287	545 546	85	481
Bottle-stoppering machines. Automatic feed device for	N. Muslar	607,262	July 12	1178	252	84	243
Bottle tray attachment	J. P. Robertson	616,013	Dec. 13	1451	339	85	1708
Bottle truck and drainer	F. W. Schuster	616,737	Dec. 27	2852	661	85	2021
Bottle valve-stopper	E. M. Raiguel	608,271	Aug. 2	176	42	84	689
Bottle-washer	A. Bosanko	613,234	Nov. 1	14	4	85	620
Bottle-washer	W. J. Cunningham	606,757	July 5	230	49	84	47
Bottle-washer	C. H. and H. B. Fischer	605,179	June 7	216	53	83	1392
Bottle-washer	H. B. and C. H. Fischer	605,180	June 7	218	53	83	1392
Bottle-washer	G. P. Goulding	602,071	Apr. 12	835	181	83	170
Bottle-washer	P. Hamm and J. W. Pertz	614,861	Nov. 29	2944	676	85	1246
Bottle-washer	H. W. E. Mentze	611,180	Sept. 20	1867	430 431	84	1836
Bottle-washing apparatus	A. Perthold	614,236	Nov. 15	1796	415	85	1001
Bottles, articles of glass, &c. Appliance for packing	H. B. Roxburgh	613,529	Nov. 1	565	128	85	723
Bottles, &c. Cap for	E. Gallet	600,309	Mar. 8	1270	290	82	1481
Bottles. Device for preventing fraudulent filling of	B. W. Norton	603,151	Apr. 26	2706	615	83	560



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Bottles. Device for preventing fraudulent refilling of	N. Nelson	613,465	Nov. 1	449	102	85	702
Bottles. Device for preventing fraudulent refilling of	M. Rosenberg	604,545	May 24	2439	554	83	1138
Bottles. Device for preventing refilling of	J. L. Adams	616,442	Dec. 27	2279	531	85	1911
Bottles. Device for preventing refilling of	C. Booker	596,472	Jan. 4	10	3	82	5
Bottles. Device for preventing refilling of	E. Gerlach	600,492	Mar. 8	1601	366	82	1545
Bottles, &c. Implement for holding	C. W. Platt, J. M. Patterson, and J. Hammell, Jr.	606,736	July 5	177	40	84	36
Bottles, jars, &c. Cap for	A. E. Long and A. A. Jones	610,715	Sept. 13	1033	238	84	1658
Bottles, jars, &c. Stoppering device for	F. Fleischmann	607,842	July 26	2439	518	84	526
Bottles. Machine for applying corks and seals to	W. Painter	609,209	Aug. 16	1935	460	84	1058
Bottles, &c. Machine for manufacturing	J. B. Vernay	610,931	Sept. 20	1412	323 324 325	84	1750
Bottles, &c. Machine for manufacturing	J. B. Vernay	613,096	Oct. 25	2660	628 629	85	555
Bottles, &c. Means for preventing fraud in connection with contents of	G. H. Grapes	602,044	Apr. 5	788	171	83	149
Bottles, &c. Stopper for	G. Koch	608,407	Aug. 2	433	95	84	742
Bottles, &c. Stopper for	G. Koch	608,408	Aug. 2	435	96	84	742
Bottles. Stoppering device for preventing refilling	J. D. Midson and F. W. Schroeder	597,998	Jan. 25	2660	621	82	566
Bottling-machine	W. Painter	608,158	July 26	2998	644 645 646	84	636
Bouquet-holder	J. L. Briggs	613,059	Oct. 25	2603	616	85	545
Bouquet-holder	P. Donnelly	605,636	July 19	2042	423	84	433
Bouquet-holder	S. C. Fredson	605,543	June 14	871	204	83	1541
Bouquet-holder	H. W. Harris	598,780	Feb. 8	1214	294	82	850
Bouquet-holder	A. Hazelton and C. H. Rigg	611,363	Sept. 27	2241	517	84	1925
Bouquet-holder	A. Stiefel	606,098	June 21	1968	452	83	1762
Bow	W. E. Stoddard	599,747	Mar. 1	126	29	82	1240
Bowl-holder	I. W. Blake and M. V. Hull	600,506	Mar. 15	1634	373	82	1570
Bowling-alley	E. Brooks	601,626	Apr. 5	6	2	83	4
Bowling-alley	E. Reisky	599,477	Feb. 22	2463	580	82	1126
Bowling-alley pin	H. H. Luke	608,294	Aug. 2	218	51	84	698
Box:							
See Annealing-box.	Match and cigarette box.						
Ballot-box.	Miter-box.						
Cake-box.	Music-box.						
Car sand-box.	Nest-box.						
Car spit-box.	Oil-retaining box.						
Card-box.	Packing-box.						
Cash-box.	Paper box.						
Cigar-box.	Paper plant-box.						
Cigarette-box.	Pen and pencil box.						
Cock-box.	Pencil-box.						
Collapsible box.	Puff-box.						
Dice-box.	Refrigerator lunch-box.						
Display-box.	Refrigerator shipping-box.						
Electric contact-box.	Remailable box.						
Fare-box.	Salt and pepper box.						
Feed-box.	Sand-box.						
Folding box.	Service-box.						
Fruit-box.	Shipping-box.						
Fuse-box.	Sluice-box.						
Hat-box.	Spice-box.						
Journal-box.	Stuffing-box.						
Junction-box.	Telephone-box.						
Letter-box.	Tooth-powder box.						
Lunch-box.	Wagon-box.						
Mail-box.	Watch-box.						
Match-box.	Workbox.						
Box	G. W. Carver	603,256	May 3	23	6	83	604
Box	F. L. Chase	614,698	Nov. 22	2640	601	85	1172
Box	A. B. Cowles	610,474	Sept. 6	622	139 140	84	1557
Box	W. D. Hamilton	613,033	Oct. 25	2547	606	85	534
Box	J. C. Harker	598,087	Feb. 1	28	7, 8	82	608
Box	E. A. Marsh and F. Leach	616,625	Dec. 27	2619	607	85	1974
Box	C. B. Scott	613,784	Nov. 8	999	228	85	827
Box and lid-support therefor	G. Welsh	609,979	Aug. 30	3345	778	84	1365
Box-assembling machine	J. F. Gilliland	613,626	Nov. 1	723	168	85	754
Box-beam, box-girder, and box-post. Metal	C. M. Horton	608,861	Aug. 9	1272	297	84	920
Box-binding machine	C. Leffler	598,307	Feb. 1	419	99	82	681
Box-binding strip. Metallic	C. Leffler	613,067	Oct. 25	2613	618	85	547
Box-blank-making machine	F. P. Rosback	608,796	Aug. 9	1112	257 258 259 260	84	892
Box-blank-making machine	F. P. Rosback	614,348	Nov. 15	1996	461 462 463	85	1040
Box-blank-making machine	J. Uhri	608,809	Aug. 9	1150	267 268 269 270 271 272 273	84	899
Box-blanks. Machine for step-mitering and printing	F. P. Rosback	609,630	Aug. 23	2746	639 640 641	84	1235
Box-corner-cutting machine	W. E. Nichols	609,161	Aug. 16	1855	441	84	1043
Box-cover	R. M. Spencer	598,581	Feb. 8	879	210	82	788



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Box-cover brace and support.....	N. S. Nissen.....	611,018	Sept. 20	1578	362	84	1780
Box cover. Display.....	G. M. Hudson.....	600,226	Mar. 8	1131	258	82	1456
Box-covering and corner-staying machine.....	T. Morgan and F. W. Jones.....	616,062	Dec. 13	1536	359	85	1725
Box-covering machine.....	A. and L. Borlinghaus.....	614,286	Nov. 15	1878	434	85	1017
Box-covering machine.....	F. H. Lauten.....	597,360	Jan. 11	1553	362 363	82	319
Box-fastener.....	H. Alberswerth.....	613,812	Nov. 8	1062	241	85	839
Box-fastener.....	C. V. Caster.....	611,445	Sept. 27	2399	550	84	1953
Box-fastener.....	C. M. Cunningham.....	605,401	June 7	666	148	83	1481
Box-fastener.....	L. C. Dickerman.....	613,500	Nov. 1	523	118	85	715
Box-fastener.....	J. W. Evans.....	606,918	July 5	504	110	84	100
Box-fastener.....	G. L. Jocelyn.....	614,955	Nov. 29	3133	718	85	1286
Box-fastener.....	P. C. Leidich.....	616,624	Dec. 27	2618	607	85	1973
Box-fastener.....	W. T. Parker.....	608,004	July 26	2754	585	84	589
Box-fastener.....	J. P. Robertson.....	612,572	Oct. 18	1729	410	85	356
Box-fastener.....	E. R. Sargent.....	614,181	Nov. 15	1666	383	85	978
Box-fastener.....	T. E. Sayre.....	605,919	June 21	1620	372	83	1699
Box-fastener.....	W. B. Sheer.....	609,913	Aug. 30	3214	753	84	1340
Box-fastener.....	C. J. Stillwell.....	604,922	May 31	3095	711	83	1284
Box-fastener.....	C. N. Towne.....	611,295	Sept. 27	2111	486	84	1901
Box fastener. Telescope.....	S. F. Baker.....	605,839	June 21	1460	334	83	1668
Box-fastening device.....	A. J. Lauer.....	611,637	Oct. 4	81	20	85	18
Box filling and transferring apparatus.....	F. H. Richards.....	607,471	July 19	1671	350 351	84	362
Box filling and transferring machine.....	F. H. Richards.....	607,470	July 19	1659	348 349	84	360
Box-filling machine.....	A. and L. Borlinghaus.....	614,285	Nov. 15	1876	432 434	85	1016
Box-filling machine.....	F. H. Richards.....	607,469	July 19	1648	347 348	84	358
Box-filling machine.....	F. H. Richards.....	607,472	July 19	1677	351 352	84	363
Box-folding machine.....	W. Lederer.....	599,615	Feb. 22	2719	635 636	82	1176
Box-former.....	J. C. Titus.....	597,624	Jan. 18	2008	468	82	426
Box-forming machine.....	H. Stewart.....	606,692	July 5	99	22, 23	84	22
Box locking device. Telescope.....	O. B. Hicks.....	615,552	Dec. 6	629	144	85	1534
Box-making machine.....	J. F. Gilliland.....	609,803	Aug. 30	3027	708 709	84	1303
Box-making machine.....	E. Keunen and R. Högfeldt.....	608,201	Aug. 2	62	15 16 17	84	637
Box nailing and printing machine.....	F. P. Rosback.....	608,917	Aug. 9	1361	320 321 322 323	84	939
Box-nailing machine.....	H. W. Morgan.....	614,231	Nov. 15	1787	413	85	999
Box or can.....	A. Cameron, Jr.....	602,653	Apr. 19	1835	418	83	377
Box or can.....	A. Cameron, Jr.....	602,654	Apr. 19	1837	419	83	377
Box or can.....	A. R. Fergusson.....	604,112	May 17	1629	366	83	966
Box or can.....	A. R. Fergusson.....	604,492	May 24	2347	533	83	1122
Box or can.....	A. R. Fergusson.....	604,975	May 31	3168	730	83	1299
Box or crate.....	E. G. Stevens.....	598,121	Feb. 1	85	20	82	619
Box or package.....	W. B. Thomson.....	600,562	Mar. 15	1731	395	82	15-8
Box-shuck-sanding machine.....	J. P. Wright.....	603,520	May 3	516	113 114	83	700
Boxes. Apparatus employed in closing.....	H. S. Jewell.....	600,348	Mar. 8	1332	305	82	1494
Boxes. Construction of.....	R. Robinson.....	611,511	Sept. 27	2517	581	84	1977
Boxes, &c. Machine for securing in position bot- toms of pasteboard.....	M. Heinemann.....	600,871	Mar. 22	2246	512	82	1699
Boxes or cases. Loose cover and cutter for her- metically-sealed metallic.....	G. H. Williamson.....	609,379	Aug. 16	2253	532 533	84	1123
Brace:							
See Ankle-brace. Frame-brace.							
Back and shoulder brace. Metal brace.							
Bed-brace. Pole and thill brace.							
Bit-brace. Post-brace.							
Cyclist's brace. Ratchet-brace.							
Dental jaw-brace. Sewer-brace.							
Drill-brace. Shoulder-brace.							
Excavation extension-brace.							
Brace.....	J. H. Morrison.....	598,382	Feb. 1	532	129	82	703
Brace-holder.....	S. Shanahan.....	602,367	Apr. 12	1344	300	83	271
Brace-rod tightener.....	H. Woodmanse.....	609,865	Aug. 30	3129	731	84	1323
Bracket:							
See Bicycle-lamp bracket. Painter's roof-bracket.							
Car-door bracket. Roof-bracket.							
Cornice-bracket. Scaffold-bracket.							
Curtain-pole bracket. Seat-post bracket.							
Curtain-rod bracket. Shade-bracket.							
Gas-bracket. Shingling-bracket.							
Lamp-bracket. Socket-bracket.							
Lantern-bracket. Staging-bracket.							
Supporting-bracket.							
Tree-prop bracket.							
Window-bracket.							
Bracket.....	J. W. Rapp.....	601,279	Mar. 29	2968	671	82	1865
Bracket-support for toilet articles.....	A. O. Glock.....	615,484	Dec. 6	499	116	85	1508
Braiding-machine.....	L. L. F. Malhère.....	613,380	Nov. 1	289	66 67 68	85	673



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Brake:							
See Air-brake.	Elevator safety-brake.						
Air disk brake.	Fluid-pressure auto						
Automatic brake.	matic brake.						
Back-pedaling	Hay-frame brake.						
brake.	Hydraulic brake.						
Bicycle-brake.	Magnet-brake.						
Bicycle air-brake.	Rail-brake.						
Car-brake.	Railway-brake.						
Car emergency-	Roller-brake.						
brake.	Sewing-machine brake.						
Car wheel and track	Shoe-brake.						
brake.	Sled-brake.						
Carriage-brake.	Track friction-brake.						
Dumb-waiter brake.	Vehicle-brake.						
Electric brake.	Vessel-brake.						
Elevator-brake.	Wagon-brake.						
Elevator compound	Warp-beam brake.						
brake.							
Brake	H. W. Albright	610,426	Sept. 6	537	118	84	1541
Brake	A. Desbain	605,539	June 14	865	203	83	1539
Brake	E. W. G. C. Hoffmann	607,852	July 26	2460	522	84	530
Brake	J. Sandiford, Sr	605,801	June 14	1368	313	83	1632
Brake	W. H. Sauvage	608,136	July 26	2959	635	84	629
Brake	W. H. Sauvage	608,561	Aug. 2	693	157	84	793
Brake apparatus.	Automatic fluid-pressure	T. J. Hogan	May 31	2991	687	83	1264
Brake-beam	F. B. Aglar	609,396	Aug. 23	2293	543	84	1149
Brake-beam	H. F. Ball	600,667	Mar. 15	1903	433	82	1621
Brake-beam	L. C. Burgess	604,456	May 24	2265	509	83	1109
Brake-beam	L. C. Burgess	606,756	July 5	228	49	84	47
Brake-beam	L. C. Burgess	607,016	July 12	684	149	84	156
Brake-beam	L. C. Burgess	607,421	July 19	1480	315	84	319
Brake-beam	W. A. Pungs	606,298	June 28	2354	544	83	1857
Brake-beam	H. B. Robischung	605,800	June 14	1367	313	83	1632
Brake connection-rod.	C. F. Huntoon	606,148	June 21	2059	472	83	1779
Brake connection-rod.	C. F. Huntoon	607,854	July 26	2467	523	84	531
Brake for bicycles, &c	F. Ecaubert	597,539	Jan. 18	1868	433	82	397
Brake for hoists or similar apparatus.	A. Bolzani	606,268	June 28	2304	533	83	1847
Brake-gear slack-adjuster	G. M. Watson	601,918	Apr. 5	566	117	83	107
Brake-handle.	P. Flood	615,614	Dec. 6	733	168	85	1556
Brake mechanism.	L. H. Goddu	614,460	Nov. 22	2209	508	85	1094
Brake mechanism. Differential	J. A. Brill and W. S. Adams	603,723	May 10	866	193	83	786
Brake mechanism. Electric	A. Vanderbeck	601,992	Apr. 5	703	149	83	133
Brake mechanism for railway-carriages, &c	H. L. Constable	599,524	Feb. 22	2547	598	82	1143
Brake-operating mechanism.	R. F. Walls	607,558	July 19	1901	393	84	406
Brake-pipe connection	C. W. Vaughan	597,040	Jan. 11	1016	240	82	214
Brake-pipe connection	C. W. Vaughan. (Reissue)	11,673	June 28	2975	690	83	1977
Brake-rod	B. Haskell	608,392	Aug. 2	400	88	84	735
Brake-rod connecting end	J. H. Baker	607,596	July 19	1971	409	84	419
Brake-shoe	J. D. Gallagher	616,568	Dec. 27	2521	583	85	1957
Brake-shoe	J. D. Gallagher	616,569	Dec. 27	2523	584	85	1957
Brake-shoe	G. Kelly	610,327	Sept. 6	358	76	84	1509
Brake-shoe	J. N. Pringle	603,343	May 3	174	40	83	635
Brake-shoe	W. D. Sargent	600,294	Mar. 8	1249	285	82	1477
Brake-shoe key.	W. D. Sargent	613,887	Nov. 8	1186	271	85	863
Brake-shoe-operating mechanism	M. Q. Rutan	609,559	Aug. 23	2586	605	84	1204
Brakes. Device for actuating fluid-pressure	R. Fitzgerald	608,661	Aug. 9	887	204	84	850
Brakes. Device for actuating fluid-pressure	M. W. Hibbard	610,052	Aug. 30	3467	804	84	1389
Brakes. Water-jacket for vehicle-	P. E. Doolittle	606,959	July 5	556	123	84	110
Braking device.	F. H. Rice	615,903	Dec. 13	1226	287	85	1664
Branding-chute	J. Bennett	602,716	Apr. 19	1953	444	83	400
Branding composition	H. Gibson	614,544	Nov. 22	2347		85	1119
Brazing apparatus	B. Rein	604,080	May 17	1568	351	83	954
Brazing-machine.	D. Crowther	607,505	July 19	1801	375	84	388
Brazing or soldering metals	T. Midgley and L. Fink	611,922	Oct. 4	567	138	85	112
Bread and pastry board	W. Harris	599,447	Feb. 22	2408	565	82	1117
Bread-cutting knife.	W. Merkle	608,337	Aug. 2	312	68	84	718
Bread-making machine	P. F. and A. F. Bryce	601,221	Mar. 22	2836	648	82	1811
Bread-raiser	A. Hough	609,546	Aug. 23	2563	600	84	1200
Breaking-machine	M. F. Williams	604,485	May 24	2336	529	83	1120
Breast-strap and hame connection	C. W. Fehring	615,827	Dec. 13	1107	260	85	1642
Breguet coils. Device for forming	I. Moss	615,035	Nov. 29	3286	756	85	1314
Brick	J. F. Booraem	616,652	Dec. 27	2684	621	85	1986
Brick-cleaning machine.	S. I. Howard	609,547	Aug. 23	2564	600	84	1200
Brick-cleaning machine	A. Krause	612,667	Oct. 18	1913	453	85	390
Brick-cleaning machine	S. A. Prescott	601,676	Apr. 5	92	19	83	19
Brick. Composition of matter for building-	W. H. Dufree	597,078	Jan. 11	1097		82	230
Brick-cutting table	J. C. Steele	612,283	Oct. 11	1225	292	85	247
Brick. Faced	C. F. Prichard	597,189	Jan. 11	1274	298	82	264
Brick-kiln	W. F. Cook	613,664	Nov. 8	778	178	85	785
Brick-kiln	W. N. Graves	616,415	Dec. 20	222	519	85	1879
Brick-kiln	H. W. Wananaker	607,973	July 26	2673	571	84	570
Brick-kiln. Continuous	E. T. Harris	616,321	Dec. 20	2054	478	85	1846
Brick-machine	H. C. Barker	598,724	Feb. 8	1130	272	82	834
Brick-machine	G. C. Davison	598,243	Feb. 1	298	68, 69	82	659
Brick-machine	J. N. Kaufholz	607,856	July 26	2472	525	84	532
Brick-machine	J. Rowe	612,275	Oct. 11	1212	290	85	245
Brick-machine	J. Sharpe	607,488	July 19	1776	369	84	384



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr &c	Vol.	Page.
Brick-machine mold	A. Berg	607,787	July 19	2297	485	84	480
Brick-machines. Cut-off mechanism for	H. K. King	612,249	Oct. 11	1175	282	85	238
Brick-re-pressing machine	W. D. Richardson and G. J. Holl.	597,656	Jan. 18	2064	482 483 484	82	486
Brick, tile, building-block, &c	H. F. Ingerson	614,655	Nov. 22	2556	597	85	1156
Bricks, &c. Appliance for use in drying	E. Gibson	615,156	Nov. 29	3504	805	85	1355
Bricks. Machine for finishing surfaces of	C., Jr., and J. H. Chambers	612,232	Oct. 11	1126	270	85	230
Bricks, tiles, &c. Machine for making	A. Berg	598,554	Feb. 8	830	198 199	82	778
Bricks, tiles, &c. Machine for making	J. Berry	614,690	Nov. 22	2626	597 598	85	1169
Bricks, tiles, &c. Machine for molding	D. Black	614,606	Nov. 22	2473	564	85	1140
Bridge	A. G. Pratt	597,590	Jan. 18	1957	455	82	416
Bridge. Concrete	A. Geisel	597,281	Jan. 11	1415	332	82	291
Bridge construction	J. A. Davidson	605,474	June 14	770	176 177	83	1521
Bridge. Draw-	E. C. Akers	610,575	Sept. 13	804	184	84	1610
Bridge. Draw-	J. Pflanz	597,221	Jan. 11	1327	309 310	82	273
Bridge. Draw-	W. L. Sampson	598,012	Jan. 25	2685	625 627	82	570
Bridge. Draw-	M. Waddell	598,167	Feb. 1	157	37, 38	82	633
Bridge. Draw-	M. Waddell	598,168	Feb. 1	160	38	82	633
Bridge-gate	A. Heinze	614,865	Nov. 29	2949	677	85	1247
Bridge. Portable	H. H. Frick	596,867	Jan. 4	722	169	82	141
Bridge safety-gate	W. W. Heffron and F. T. Rice	613,568	Nov. 1	630	146	85	736
Bridge. Sidewalk-	C. T. Ford	599,037	Feb. 15	1660	392	82	953
Bridge. Suspension-	T. J. Hitson	616,536	Dec. 27	2470	572	85	1947
Bridge. Suspension-	J. A. L. Waddell and I. G. Hedrick	605,153	June 7	176	43, 44	83	1384
Bridge. Swivel draw-	J. Edwards	615,824	Dec. 13	1101	258 259	85	1641
Bridges. Construction of metal	W. Beer	609,001	Aug. 16	1554	369	84	989
Bridges, &c. Construction of tension members for	G. Lindenthal	608,690	Aug. 9	938	216	84	861
Bridges. Folding steps or stairs for lift-	T. H. Williams	616,515	Dec. 27	2435	563	85	1941
Bridges. Safety-gate for draw-	P. Bonus	612,581	Oct. 18	1743	413	85	358
Bridle-bit	J. P. Knight	615,283	Dec. 6	117	31	85	1436
Bridle-bit	C. H. Shepard	612,440	Oct. 18	1498	361	85	312
Bridle-pulley	J. E. Campbell	607,788	July 19	2300	485	84	481
Bridle. Safety-	J. Hammond	608,672	Aug. 9	910	209	84	855
Bristle-dragging machine	A. S. Miles	612,524	Oct. 18	1633	390	85	338
Broiler	J. Albright	597,349	Jan. 11	1537	358	82	316
Broiler. Egg-	D. R. Porter	608,144	July 26	2976	638	84	632
Broiling and toasting device	E. M. Alderson	611,595	Oct. 4	1	1	85	3
Brominating apparatus	A. de Figanlière	612,716	Oct. 18	1995	473	85	406
Bronze composition and making same	A. Schwenterley	613,944	Nov. 8	1272	-----	85	879
Bronze. Crystal aluminium	J. T. Cupper	610,645	Sept. 13	919	-----	84	1634
Bronzing-machine	R. F. Emmerich and F. Vonderlehr.	613,412	Nov. 1	365	83, 84	85	685
Bronzing-machine	R. F. Emmerich and F. Vonderlehr.	613,857	Nov. 8	1129	259	85	851
Brooch	G. B. Keplinger	604,763	May 31	2827	646	83	1232
Brooder	J. E. Bennett	596,469	Jan. 4	5	2	82	3
Brooder. Chicken-	J. H. Herbener	608,043	July 26	2821	600 601	84	601
Broom	T. H. Brown	604,000	May 10	1370	312	83	884
Broom	H. Durham	609,665	Aug. 23	2802	653	84	1245
Broom	J. Good	600,124	Mar. 1	967	214	82	1407
Broom	H. Thompson	610,290	Sept. 6	292	63	84	1498
Broom-bridle	Z. M. Lindley and W. H. Sterrett	600,731	Mar. 15	2017	459	82	1642
Broom-case	G. Hacker	608,671	Aug. 9	909	208	84	855
Broom-clamp	J. Hiett	608,773	Aug. 9	1075	247	84	885
Broom clamp. Reversible	W. Stutler	600,956	Mar. 22	2384	544	82	1726
Broom-clasp	W. H. Cason	608,510	Aug. 2	603	135	84	775
Broom. Combination whisk-	A. F. Middaugh, A. T. Hoevet, and F. T. Anderson. (Reissue.)	11,688	Aug. 23	2152	690	84	1275
Broom-handle coupling	W. N. Thorp and F. G. Normart	612,685	Oct. 18	1942	459	85	396
Broom-handle. Flexible	G. H. Kavanaugh	603,694	May 10	822	181	83	777
Broom-handle-polishing machine	H. Breckenridge	607,730	July 19	2192	463	84	461
Broom-head	J. J. Eck	612,491	Oct. 18	1585	379	85	329
Broom-head	A. W. Fitts	613,671	Nov. 8	788	180	85	787
Broom-head	W. M. Hale	615,065	Nov. 29	3350	768	85	1325
Broom-head	J. L. Hudgepeth	611,319	Sept. 27	2152	497	84	1909
Broom-holder	A. Headly	612,844	Oct. 25	2253	538	85	474
Broom-holder	L. Rybold	602,243	Apr. 12	1133	249	83	228
Broom-holder	H. L. Steinmeyer	599,744	Mar. 1	121	28	82	1239
Broom-holder	M. A. Steppart	596,724	Jan. 4	478	109	82	92
Broom or brush. Sectional	J. C. Schmidt	596,793	Jan. 4	595	138	82	114
Broom-rack	W. I. Smith	604,909	May 31	3080	707	83	1281
Broom-support	A. I. Gallaway	610,351	Sept. 6	405	86	84	1518
Broom-support	J. H. Paige	605,808	June 14	1380	316	83	1634
Brooms, &c. Device for holding	H. F. Ford	599,982	Mar. 1	560	129	82	1319
Brush	T. E. Arnold	607,908	July 26	2569	544	84	551
Brush	G. B. Beiderhase	597,873	Jan. 25	2445	570	82	525
Brush	J. T. Burnip	606,184	June 28	2124	487	83	1810
Brush	A. W. Coulter	602,431	Apr. 19	1454	330	83	307
Brush	A. C. Estabrook	611,240	Sept. 27	1996	460	84	1880
Brush	D. B. Forward	611,174	Sept. 20	1756	402	84	1814
Brush	F. Goehring	608,365	Aug. 2	351	76	84	725
Brush	T. H. Gulick	606,713	July 5	143	30	84	30
Brush	R. L. Hall	611,249	Sept. 27	2009	463	84	1882
Brush	H. W. Hasey	602,077	Apr. 12	846	184	83	172
Brush	J. F. Herbert	601,056	Mar. 22	2554	582	82	1758
Brush	J. F. Hoke, Jr	596,877	Jan. 4	735	173	82	144
Brush	G. B. Hussey	615,853	Dec. 13	1148	268	85	1650



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Brush	C. M. Kelly and O. J. Linendoll	615,559	Dec. 6	641	146	85	1537
Brush	J. Lafaurie and G. Giron-Lanauze	605,724	June 14	1212	280	83	1603
Brush	L. A. Lightenhome	605,230	June 7	323	74	83	1412
Brush	H. E. Miller	605,185	June 7	229	55	83	1394
Brush	C. A. Neuert	602,193	Apr. 12	1058	231	83	213
Brush	L. D. Newman	614,335	Nov. 15	1973	456	85	1035
Brush	R. B. Shepherd	601,405	Mar. 29	3183	718	82	1905
Brush	F. G. Smith and H. R. Atwater	613,807	Nov. 8	1049	239	85	837
Brush	W. Wallach	599,816	Mar. 1	266	59	82	1263
Brush	W. and I. Wilkinson	607,105	July 12	887	191	84	190
Brush and scoop. Combined	R. D. Ake	603,071	Apr. 26	2568	582	83	531
Brush-backs by pressure. Apparatus for forming holes in	C. E. Flemming	600,687	Mar. 15	1942	442 443	82	1628
Brush. Clothes-	L. Frederitzi	615,839	Dec. 13	1129	264	85	1646
Brush. Clothes-line	D. F. Gallagher	606,482	June 28	2691	620	83	1923
Brush-cutting machine	A. L. Hastings and L. M. Scott	612,726	Oct. 18	2011	477	85	409
Brush. Electric	E. M. Hellwig	604,471	May 24	2305	523	83	1115
Brush. Electrically-operated	A. Sherwood	600,383	Mar. 8	1386	317	82	1504
Brush for cleaning cuspidors	T. E. Jones	614,305	Nov. 15	1908	440	85	1022
Brush for cleaning cycle-chains	A. H. Stanbury, Jr	616,593	Dec. 27	2559	592	85	1963
Brush for screen-doors. Fly-	M. Ackerman	607,206	July 12	1064	230	84	222
Brush. Fountain-	E. F. Dorsey	615,063	Nov. 29	3344	767	85	1324
Brush. Fountain-	H. F. Haynes	615,617	Dec. 6	737	170	85	1557
Brush. Fountain-	B. J. Simpson	600,557	Mar. 15	1723	393	82	1587
Brush-handle scraper attachment	A. W. Permento	598,349	Feb. 1	479	115	82	692
Brush. Hat-	A. Mauser	597,423	Jan. 18	1669	387	82	357
Brush-holder	A. E. Doman	613,669	Nov. 8	785	180	85	787
Brush-holder	G. B. Hussey	606,970	July 5	576	127	84	114
Brush-holder	A. J. Oehring	598,271	Feb. 1	357	83	82	668
Brush holder. Scrubbing-	W. Putman	598,008	Jan. 25	2680	625	82	569
Brush holder. Tooth-	C. Johnson and W. P. Guilfoyle	615,357	Dec. 6	252	59	85	1463
Brush-machine	J. W. Hocker	607,797	July 19	2314	489 490 491 492 104	84	483
Brush-machine	W. C. Read	596,715	Jan. 4	460	105 106	82	90
Brush-machine	W. C. Read	596,716	Jan. 4	464	106	82	90
Brush-machine gage device	M. Young	606,371	June 28	2493	579	83	1883
Brush-machines. Work-holder for	H. Grommann	603,187	Apr. 26	2762	628 629 630	83	570
Brush or dauber. Blacking	J. C. Wickers	610,750	Sept. 13	1089	250	84	1669
Brush. Paint-	J. E. Murphy	613,845	Nov. 8	1108	252	85	848
Brush. Polishing-	G. F. Cooper	602,058	Apr. 12	810	175	83	165
Brush. Polishing-	M. Leiner	616,677	Dec. 27	2740	636	85	1998
Brush. Rotary	H. F. Cook	612,157	Oct. 11	1010	243	85	207
Brush. Rotary	J. Frossard	597,521	Jan. 18	1844	427	82	392
Brush. Rotary	E. Pain	599,044	Feb. 15	1668	394	82	955
Brush. Shaving-	L. Legrand	611,969	Oct. 4	648	157	85	127
Brush. Shoe-	W. W. Worcester	605,533	June 14	859	201	83	1538
Brush. Tooth-	I. N. Lincoln	611,788	Oct. 4	338	81	85	69
Brushing or combing machine	E. Cassanova	604,725	May 31	2767	633	83	1321
Bubble-blower	P. D. Horton	608,860	Aug. 9	1271	297	84	920
Bubble-blowing doll. Soap-	A. Rakovsky	612,121	Oct. 11	947	229	85	195
Bucket	H. F. Rigg	608,304	Aug. 2	234	54	84	701
Bucket. Automatic dumping-	W. F. Smith	604,433	May 24	2224	498	83	1101
Bucket. Coal or ore	J. A. Joyce	603,143	Apr. 26	2697	612	83	558
Bucket elevator	J. M. Dodge	600,770	Mar. 15	2080	476	82	1655
Bucket. Hoisting-	T. M. Jenkins	611,911	Oct. 4	551	134	85	109
Bucket. Sap-	D. R. Beardsley	611,229	Sept. 27	1981	457	84	1877
Bucket. Well-	W. D. Martin, Sr	603,569	May 3	595	132	83	716
Buckle	G. N. Clark	604,912	May 31	3084	708	83	1282
Buckle	W. J. Fleming	599,695	Mar. 1	32	8	82	1222
Buckle	A. A. and T. S. Grace	613,902	Nov. 8	1204	275	85	866
Buckle	D. E. Hipwell	606,627	June 28	2958	686	83	1974
Buckle	G. E. Lawrence	606,629	June 28	2959	686	83	1974
Buckle	A. Lord	607,060	July 12	792	172	84	173
Buckle	W. A. Mitchell	605,114	June 7	78	22	83	1367
Buckle	N. Nelson	599,626	Feb. 22	2750	640	82	1185
Buckle	G. Pagé	598,956	Feb. 15	1515	361	82	924
Buckle	J. L. Perkins	614,179	Nov. 15	1664	383	85	977
Buckle	S. C. Purdy	598,112	Feb. 1	72	17	82	616
Buckle	J. C. Rosenkranz	616,359	Dec. 20	2131	496	85	1862
Buckle and loop	W. P. Gelabert and T. G. Nelson	616,609	Dec. 27	2594	602	85	1969
Buckle and purse or bag. Combined belt-	A. W. Scheuber	603,974	May 10	1314	301	83	871
Buckle and snap-hook. Combined	J. Polka	603,576	May 3	603	134	83	718
Buckle. Back-band	M. N. Judd and A. McManus	597,501	Jan. 18	1813	420	82	386
Buckle. Belt-	E. B. Winter	606,107	June 21	1987	456	83	1766
Buckle for trace-carriers. Back-band	M. Dallas	606,518	June 28	2744	633	83	1934
Buckle. Harness-	B. F. George	598,082	Feb. 1	20	6	82	607
Buckle. Harness-	L. E. Kiehl	602,508	Apr. 19	1583	362	83	331
Buckle. Harness-	J. Mealey	602,951	Apr. 26	2370	540	83	496
Buckle. Harness-	G. Shoenberger	600,623	Mar. 15	1825	418	82	1605
Buckle. Lock-	M. W. Lynch	613,884	Nov. 8	1181	270	85	862
Buckle. Suspender-	W. H. Johnson	597,240	Jan. 11	1355	316	82	278
Buckle. Suspender-	C. W. Latimer	610,545	Sept. 13	753	171	84	1599
Buckle. Trace or tug	J. Mealey	614,877	Nov. 29	2965	681	85	1250
Budding-clasp	J. D. Abell	603,807	May 10	1023	228	83	816
Budding-knife	T. J. Henderson	612,131	Oct. 11	959	231	85	197
Budding-tool	B. F. Gilbert and G. G. James	613,031	Oct. 25	2546	605	85	533
Buffing and polishing roll or tool	E. Richardson	615,906	Dec. 13	1231	288 289	85	1666
Buffing-machine	T. E. Keavy	610,759	Sept. 13	1110	253	84	1673



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Buffing-machine. Automatic	C. H. Curtis	610,433	Sept. 6	550	{ 120 121	{ 84	1544
Buffing-machine buffer. Shoe or other	T. E. Keavy	610,758	Sept. 13	1108	253	84	1672
Buffing-machine buffer. Shoe or other	T. E. Keavy	610,760	Sept. 13	1112	254	84	1673
Buffing or polishing device	C. E. Graham	604,933	May 31	3110	715	83	1287
Buffing or sandpapering machine	J. H. Ryder	600,933	Mar. 22	2351	534	82	1719
Buffing-pad	T. E. Keavy	610,762	Sept. 13	1115	254	84	1674
Buffing-roll. Rotary	P. B. Bagley	603,357	May 3	193	44	83	639
Buffing-wheel	T. A. Norris	602,913	Apr. 26	2296	523	83	480
Buffing-wheel composition	A. H. Bogani	609,326	Aug. 16	2171	—	84	1107
Buggy	W. H. Makutchan	599,298	Feb. 15	2086	494	82	1031
Buggy-boot	J. F. Lash	609,817	Aug. 30	3050	713	84	1307
Buggy-bow rest	N. McAulay	603,962	May 10	1296	296	83	868
Buggy or wagon wrench	W. Smith and E. J. Gould	606,945	July 5	540	119	84	107
Buggy-top	J. C. Byxbe	613,661	Nov. 8	774	177	85	785
Buggy-top-bow support	J. A. Paulis	606,079	June 21	1998	444	83	1755
Buggy-top side light	G. J. Quinsler and G. W. McNear	607,705	July 19	2163	455	84	454
Buggy-top supporter	F. J. Stallings	615,508	Dec. 6	553	126	85	1519
Buggy-wrench	J. Barber	600,605	Mar. 15	1800	412	82	1601
Building-block	J. W. Rapp	599,864	Mar. 1	364	82	82	1232
Building-blocks. Child's	C. S. Burton	604,708	May 24	2726	623	83	1194
Building construction	C. F. Eiker	614,449	Nov. 22	2190	503	85	1090
Building construction	W. H. and F. A. Winslow	609,487	Aug. 23	2475	578	84	1183
Building material. Composite	J. Brower	598,624	Feb. 8	959	231	82	802
Building material. Decorative	D. H. Ferguson	598,883	Feb. 8	1378	—	82	882
Buildings. Construction of	W. T. Sears	612,365	Oct. 11	1372	332	85	275
Buildings. Instrument for determining angles in framing	W. W. Bouldry	614,259	Nov. 15	1839	425	85	1009
Bulkhead-doors. Apparatus for automatically closing	W. and A. R. Crawford	611,833	Oct. 4	422	101	85	84
Bulkhead-doors. Hydraulic mechanism for closing	W. B. Cowles	605,399	June 7	654	{ 146 147	{ 83	1477
Bulkhead for ships, &c	M. Hunter	608,047	July 26	2826	602	84	602
Bulkheads and partitions. Passage-way for	D. Du Bois	608,189	Aug. 2	39	9	84	662
Bullet-mold	T. M. Borcur	598,355	Feb. 1	488	117	82	694
Bullet-proof fabric	C. Zeglen	604,870	May 31	3006	690	83	1267
Bulletin-board	W. E. Benson	603,248	May 3	9	2	83	602
Bulletin-board	H. E. Borden and C. A. Niederstadt.	607,419	July 19	1471	311	84	317
Bulletin-board	G. Percy	597,688	Jan. 18	2119	495	82	445
Bump block	N. W. Ladd, J. A. Snodgrass, and J. W. Smithson.	600,428	Mar. 8	1461	333	82	1517
Bundle-carrier	F. W. Goodspeed	614,545	Nov. 22	2348	538	85	1119
Bung	J. P. Baumgartner	614,603	Nov. 22	2466	563	85	1138
Bung	S. Salomon	598,665	Feb. 8	1028	248	82	815
Bung	M. W. Shannon	611,224	Sept. 20	1962	452	84	1852
Bung. Ale-barrel	F. W. Albrecht	603,243	May 3	1	1	83	601
Bung and tube	G. J. Habermann	614,465	Nov. 22	2216	510	85	1095
Bung. Barrel	J. Mohn	599,300	Feb. 15	2092	495	82	1032
Bung-branding machine	A. L. Neubert	616,006	Dec. 13	1438	336	85	1705
Bung. Faucet	D. Beebe	603,464	May 3	398	89	83	678
Bung-hole-boring tool	J. Fellows	613,132	Oct. 25	2710	641	85	566
Bung. Self-acting	P. C. Leidich	599,788	Mar. 1	194	48	82	1252
Bunsen burner	J. P. Wilson	612,959	Oct. 25	2438	581	85	511
Buoy-cables. Attachment for	C. A. Hutchins	612,109	Oct. 11	923	224	85	191
Buoy. Electric	E. W. G. C. Hoffmann	607,745	July 19	2217	469	84	465
Burglar-alarm	C. F. Cline	615,477	Dec. 6	489	{ 113 114	{ 85	1506
Burglar-alarm	S. Coffield	611,772	Oct. 4	308	74	85	63
Burglar-alarm	W. U. Cooper	605,779	June 14	1329	304	83	1625
Burglar-alarm	S. B. and M. M. Daniels	606,519	June 28	2745	634	83	1934
Burglar-alarm	J. C. De Witt	597,573	Jan. 18	1927	449	82	410
Burglar-alarm	F. Fenley	598,916	Feb. 15	1440	345	82	909
Burglar-alarm	A. Fowler and P. N. Green	609,739	Aug. 23	2915	682	84	1268
Burglar-alarm	E. A. Goepper	600,068	Mar. 1	808	185	82	1372
Burglar-alarm	A. G. Gray	606,862	July 5	426	91	84	84
Burglar-alarm	J. M. Kramer	601,150	Mar. 22	2700	621	82	1786
Burglar-alarm	J. W. Parrish	610,826	Sept. 13	1236	284	84	1698
Burglar-alarm	W. L. Rawls	608,145	July 26	2976	639	84	632
Burglar-alarm	A. V. Todd	605,589	June 14	965	224	83	1558
Burglar-alarm	D. L. Wartenluft	609,640	Aug. 23	2765	644	84	1238
Burglar-alarm and lock. Combined	C. R. Sabin	605,344	June 7	556	123	83	1458
Burglar-alarm. Compressed-air	W. M. Frisbie	610,482	Sept. 6	637	143	84	1561
Burglar-alarm. Electrical	C. Coleman	616,079	Dec. 20	1570	366	85	1749
Burglar-alarm system. Electric	C. Coleman	598,049	Jan. 25	2740	639	82	582
Burglar-alarm system. Electric	C. Coleman	598,063	Jan. 25	2766	645	82	587
Burglar and fire alarm	D. H. Talbert	601,181	Mar. 22	2761	633	82	1797
Burial apparatus	E. C. Jobson	615,620	Dec. 6	743	172	85	1558
Burial apparatus	R. R. Kinney and G. P. Barnard	606,722	July 5	157	35	84	32
Burial apparatus	C. L. Moore and C. V. Pugh	605,555	June 14	895	{ 208 209	{ 83	1546
Burial apparatus	R. H. Thorne	605,360	June 7	586	{ 130 131	{ 83	1463
Burial-casket	O. M. Allen	601,823	Apr. 5	380	80	83	71
Burial-casket	W. H. Blackford	609,262	Aug. 16	2059	489	84	1085
Burial-casket	T. S. Garrison	601,037	Mar. 22	2522	573	82	1751
Burial-casket	L. Hammel	614,051	Nov. 8	1434	330	85	913
Burial-casket	S. W. Herrell	605,639	June 14	1071	246	83	1577
Burial-casket	J. Jaixen and E. Harry	603,767	May 10	946	211	83	801
Burial-casket	W. C. Lautner	599,043	Feb. 15	1667	394	82	955
Burial-casket	C. E. Myers	604,334	May 17	2042	457	83	1046
Burial-casket	A. W. Semmens and J. J. Evel	616,149	Dec. 20	1729	400	85	1779
Burial-casket	W. S. Whitcomb and G. A. Barton	611,880	Oct. 4	500	121	85	100
Burial-casket shipping-case	C. O. Forbis	597,714	Jan. 25	2167	507	82	471



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Burner:							
See Bunsen burner.	Hydrocarbon incandes-						
Cactus-burner.	cent burner.						
Coal-burner.	Hydrocarbon oil burner.						
Fluid-fuel or oil burner.	Incandescent burner.						
Formaldehyde-burner.	Lamp-burner.						
Gas-burner.	Liquid-fuel burner.						
Gas-generating burner.	Oil-burner.						
Gas-light burner.	Petroleum-burner.						
Hydrocarbon-burner.	Pilot-burner.						
	Prairie-burner.						
	Retort-burner.						
	Stump-burner.						
	Vapor-burner.						
Burner	C. Haffcke	606,136	June 21	2038	466	83	1774
Burner	H. M. Hamrick	613,921	Nov. 8	1232	467	85	871
Burner	H. M. Hamrick	613,922	Nov. 8	1234	280	85	872
Burner	H. M. Hamrick and W. S. Miller	613,649	Nov. 1	753	173	85	760
Burner	C. G. Smith	611,949	Oct. 4	616	150	85	120
Burner	L. T. Wilcox	609,485	Aug. 23	2471	577	84	1183
Burner and chimney-holder	J. H. Moss	608,395	Aug. 2	408	89	84	737
Burner and globe	J. Walsh	614,148	Nov. 15	1621	372	85	970
Burners. Apparatus for conveying air and vapor to	J. Stubbers	603,436	May 3	334	74	83	664
Burning and heating appliance	H. S. Garr	599,499	Feb. 22	2504	590	82	1135
Burning compound and compounding same	E. Gumpoldt	616,838	Dec. 27	3010		85	2053
Burning hydrocarbon oils with blue flame. Apparatus for	F. Altmann	603,072	Apr. 26	2568	583	83	532
Burning hydrocarbon oils with blue or Bunsen flame. Appliance for	F. Altmann	598,262	Feb. 1	338	78	82	665
Burning hydrocarbon or other oils. Apparatus for	C. A. Kunzel, Jr.	607,863	July 26	2490	528	84	535
Burning pulverized fuel. Nozzle for	C. M. Day	616,455	Dec. 27	2310	538	85	1917
Burning pulverulent fuel. Apparatus for	C. A. Freitag	610,845	Sept. 13	1262	291	84	1704
Burnishing-machine	E. C. Doolittle	601,461	Mar. 29	3277	741	82	1923
Bushing and faucet for barrels	W. C. Rawley	605,612	June 14	1012	233	83	1566
Bushing. Tap-hole	C. Hammer	608,196	Aug. 2	54	13	84	665
Bust-pad	F. M. Lake	598,378	Feb. 1	526	128	82	701
Bustle	H. H. Taylor	601,361	Mar. 29	3107	702	82	1891
Butter, &c. Apparatus for removing	H. Röhl and H. Usedom	604,124	May 17	1647	369	83	969
Butter cake and means for making same	F. Burger and H. M. Williams	602,124	Apr. 12	929	201	83	187
Butter cutting and feeding machine	J. Anderson	608,016	July 26	2771	589	84	592
Butter. Making artificial	M. E. O. Liebreich	611,495	Sept. 27	2493		84	1972
Butter-mold	W. C. Freeman	598,775	Feb. 8	1207	293	82	848
Butter-mold	M. Pfening	607,128	July 12	928	201	84	198
Butter printer and weighing machine	A. C. Dodge	602,042	Apr. 5	785	170	83	148
Butter, &c. Process of and apparatus for sterilizing.	A. Dubuisson	598,561	Feb. 8	844	201	82	780
Butter, &c. Purifying and deodorizing	J. G. and A. Hargrave	601,819	Mar. 29	3044	686	82	1878
Button	A. S. Crane	606,277	June 28	2314	536	83	1849
Button	N. D. Ingram	605,292	June 7	450	100	83	1438
Button	P. McEaney	614,490	Nov. 22	2272	520	85	1105
Button	F. G. Neubert	607,452	July 19	1532	326	84	328
Button	I. G. Platt	605,130	June 7	107	27	83	1372
Button	C. Radcliffe	610,662	Sept. 13	942	219	84	1639
Button	C. W. Stimson	603,517	May 3	510	111	83	699
Button	C. W. Stimson	608,487	Aug. 2	565	126	84	768
Button	H. Wirth	611,881	Oct. 4	502	121	85	100
Button and neckwear-retainer. Collar-	J. Acron	604,357	May 24	2091	469	83	1075
Button and tie-retainer. Combined collar-	J. W. Knause	612,970	Oct. 25	2458	586	85	516
Button-attaching implement. Hand-	F. S. McKenney	599,007	Feb. 15	1599	379	82	940
Button-back	A. Hall	604,882	May 31	3024	694	83	1271
Button-blank backs. Machine for grinding	R. W. C. Cleveland	609,140	Aug. 16	1820	432	84	1037
Button-blank-cutting machine	W. A. Pendry	601,675	Apr. 5	88	18	83	18
Button-boring machine	W. H. and G. W. Leiman	603,854	May 10	1120	252	83	834
Button-carding machine	W. E. Bennett	614,786	Nov. 22	2788	639	85	1202
Button. Collar-	J. G. Mattelin	600,435	Mar. 8	1477	337	82	1520
Button. Cuff-	W. S. Bechtold	603,396	May 3	262	58	83	650
Button. Cuff-	W. Holden	613,039	Oct. 25	2562	608	85	536
Button. Cuff-	G. L. Rawdon	598,643	Feb. 8	986	238	82	807
Button. Cuff-	H. E. Swift	609,564	Aug. 23	2597	607	84	1206
Button. Cuff-	S. Symington	612,126	Oct. 11	952	230	85	196
Button-fastener	T. E. Jones	613,373	Nov. 1	279	64	85	671
Button-fastening device	J. F. Dunn	608,588	Aug. 9	753	173	84	824
Button-feeding mechanism	C. E. Hardenbrook	602,804	Apr. 19	2106	475	83	429
Button-finishing machine	W. E. Bennett	614,784	Nov. 22	2781	637	85	1200
Button-grinding machine	C. L. Appel	604,952	May 31	3135	721	83	1293
Buttonhole-band	G. Boxley	610,579	Sept. 13	811	185	84	1611
Buttonhole-casing	G. J. Gissing	608,593	Aug. 9	759	175	84	825
Buttonhole-casing	A. M. Heath	604,470	May 24	2304	523	83	1115
Buttonhole-cutter	E. E. Zink	609,720	Aug. 23	2888	675	84	1262
Buttonhole-opener	S. F. Hardy	612,416	Oct. 18	1460	353	85	305
Button. Identification-	M. A. D. Harris	602,446	Apr. 19	1485	339	83	312
Button-machine alarm device	H. T. Jenkins	610,876	Sept. 13	1323	303	84	1717
Button-making machine	F. D. Foster	599,696	Mar. 1	33	8, 9	82	1222
Button-making machine	J. Hornby	611,811	Oct. 4	377	91, 92	85	76
Button. Neckwear-retaining	V. Fegley	600,220	Mar. 8	1123	256	82	1454
Button or stud	C. C. Champenois	605,998	June 21	1773	406	83	1725
Button or stud	H. M. Larter	616,057	Dec. 13	1527	357	85	1724
Button or stud for shirt-bosoms	F. A. Ballou	599,489	Feb. 22	2492	586	82	1132
Button-punch press	W. E. Bennett	611,988	Oct. 4	679	165	85	133
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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Button-punching machine.....	W. E. Bennett.....	611,989	Oct. 4	684	166 167	85	134
Button-remover.....	S. E. Burke.....	601,943	Apr. 5	636	133	83	119
Button. Separable.....	W. P. Devine.....	615,609	Dec. 6	723	166	85	1555
Button. Separable.....	F. K. Goff.....	616,461	Dec. 27	2322	541	83	1920
Button. Separable.....	J. E. Hill.....	612,498	Oct. 18	1593	381	85	330
Button. Separable.....	E. Pringle.....	600,114	Mar. 1	895	205	82	1389
Button-setting machine.....	S. Upton.....	608,933	Aug. 9	1412	333	84	947
Button. Tack-fastened.....	E. L. Ashley.....	607,909	July 26	2569	544	84	551
Button. Tack-fastened.....	A. J. Shipley.....	606,881	July 5	453	97	84	89
Button. Tack-fastened.....	A. J. Shipley and T. R. Hyde, Jr.....	598,021	Jan. 25	2698	630	82	573
Button. Tack-fastened.....	A. J. Shipley and T. R. Hyde, Jr.....	598,022	Jan. 25	2699	630	82	573
Button. Two-part separable.....	O. L. Mahon.....	608,410	Aug. 2	438	96	84	743
Buttons for enameling, &c. Device for holding.....	W. E. Bennett.....	614,785	Nov. 22	2787	639	85	1201
Buttons from finishing-trays. Machine for removing.....	W. E. Bennett.....	612,375	Oct. 11	1385	335 336 266	85	277
Buttons. Machine for assembling cloth-covered.....	F. W. Ludington.....	598,711	Feb. 8	1110	267 268	82	830
Buttoner.....	R. Gans.....	615,482	Dec. 6	497	115	85	1508
Buttoner.....	C. J. Holmgren.....	602,848	Apr. 26	2189	496	83	460
Buttoner. Cuff.....	A. V. Groupe.....	601,137	Mar. 22	2677	612	82	1782
Cab. Hansom.....	J. L. Lawrence.....	611,385	Sept. 27	2292	529 530	84	1934
Cab. Hansom.....	L. Paradis and N. Desrosiers.....	601,202	Mar. 22	2798	639	82	1803
Cab. Hansom.....	L. Paradis and N. Desrosiers.....	615,633	Dec. 6	769	178	85	1564
Cabinet.....	G. M. Finotti.....	602,738	Apr. 19	1988	451	83	406
Cabinet.....	C. L. Hendricks.....	599,387	Feb. 22	2285	540	82	1093
Cabinet.....	J. W. Place.....	602,103	Apr. 12	889	193	83	180
Cabinet.....	I. L. Unterbrink.....	613,094	Oct. 25	2657	628	83	555
Cabinet and duet-stool.....	H. B. Banes.....	603,618	May 10	695	155	83	751
Cabinet-bath.....	V. Christensen.....	604,300	May 17	1971	441	83	1032
Cabinet. Braid.....	L. Sutro.....	616,505	Dec. 27	2118	559	85	1938
Cabinet. Check-holding.....	S. L. Davis.....	616,183	Dec. 20	1801	416	85	1795
Cabinet. Druggist's label.....	E. F. Stephens.....	598,752	Feb. 8	1172	281	82	842
Cabinet. Exhibiting.....	A. Gartner.....	605,222	June 7	308	71	83	1410
Cabinet for clothes lines and pins.....	F. S. Devereaux.....	599,771	Mar. 1	170	41	82	1248
Cabinet for medicine, &c.....	G. B. Murray.....	606,018	June 21	1815	418	83	1732
Cabinet. Grocer's.....	R. H. Whitted.....	601,921	Apr. 5	570	118	83	108
Cabinet. Kitchen.....	T. W. Boynton.....	604,454	May 24	2263	508	83	1108
Cabinet. Kitchen.....	H. G. Day.....	615,684	Dec. 13	862	198	85	1594
Cabinet. Kitchen.....	J. M. Gray.....	615,980	Dec. 13	1380	322	85	1694
Cabinet. Kitchen.....	W. Lackey.....	608,336	Aug. 2	310	68	84	718
Cabinet. Kitchen.....	O. Locke.....	613,770	Nov. 8	979	224	85	823
Cabinet. Kitchen.....	J. E. Tate.....	603,667	May 10	778	172	83	768
Cabinet. Kitchen.....	J. E. Tate.....	610,102	Aug. 30	3542	821	84	1406
Cabinet. Kitchen bakery.....	W. S. Renner.....	606,793	July 5	300	62	84	60
Cabinet. Lace or ribbon.....	C. H. Martin.....	602,344	Apr. 12	1303	289	83	263
Cabinet. Photograph.....	T. F. Adams.....	606,325	June 28	2407	557 558	83	1868
Cabinet. Spice.....	C. M. Stevenson.....	607,716	July 19	2176	458	84	457
Cabinet table. Kitchen.....	J. L. Huestis.....	608,260	Aug. 2	155	38	84	685
Cable-carrier.....	J. T. Cowley.....	608,954	Aug. 9	1443	342	84	952
Cable-grip.....	J. Frigard.....	614,380	Nov. 15	2056	475	85	1051
Cable-grip.....	C. T. Norton and E. D. Rushing.....	598,741	Feb. 8	1156	277	82	839
Cable-road sleeper.....	J. Campbell.....	600,060	Mar. 1	795	181 182	82	1370
Cable-stopper.....	R. Simot.....	612,575	Oct. 18	1736	411	85	357
Cable-stringer.....	F. A. Cannon.....	603,991	May 10	1345	308	83	878
Cables, wires, &c., through underground conduits. Means for conveying.....	J. Wrigley.....	614,597	Nov. 22	2450	558	85	1136
Cableway, carrier, and carriage. Suspension.....	C. E. Richson.....	597,296	Jan. 11	1436	337	82	295
Cactus-burner.....	E. Edmunds.....	613,798	Nov. 8	1035	235	85	834
Caddy. Grocer's.....	C. M. Symonds.....	607,198	July 12	1051	228	84	220
Caisson air-lock.....	S. Mattson.....	602,263	Apr. 12	1169	257	83	235
Caisson. Floating.....	J. F. Webb.....	597,597	Jan. 18	1967	457 458	82	418
Caisson. Movable.....	C. C. Lovejoy.....	609,686	Aug. 23	2839	664	84	1253
Cake-beater.....	A. W. Custer.....	601,887	Apr. 5	510	105	83	96
Cake-box, &c.....	S. F. Savidge.....	606,880	July 5	452	97	84	89
Cake-cutting machine.....	P. D. Harton.....	612,773	Oct. 18	2099	497 498	85	425
Cake-machine.....	P. D. Harton.....	603,081	Apr. 26	2591	589	83	535
Cake-turner.....	M. D. Good.....	606,205	June 28	2171	498	83	1818
Cake-turner.....	C. E. Macduffee.....	614,016	Nov. 8	1384	317	85	903
Cakes, &c. Device for ornamenting.....	L. Ferraioli.....	608,958	Aug. 9	1448	343	84	953
Calcium acetate. Apparatus for manufacturing.....	M. F. Quinn.....	596,826	Jan. 4	653	150	82	126
Calcium carbid. Method of and apparatus for producing.....	C. L. Wilson, C. Muma, J. W. Un- ger, H. Schneekloth, A. P. Bro- sius, and J. C. Kuchel.....	601,366	Mar. 29	3112	702 703	82	1892
Calcium carbid. Process of and apparatus for producing.....	M. P. Wood.....	609,864	Aug. 30	3125	730 731	84	1323
Calcium carbids. Making.....	J. E. Hewes.....	596,999	Jan. 11	952	-----	82	202
Calcium carbids. Treating.....	J. A. Deuther.....	615,816	Dec. 13	1091	-----	85	1639
Calculating device.....	L. Maybaum.....	605,000	May 31	3207	738	83	1307
Calculating-machine.....	G. B. Grant.....	605,288	June 7	438	98, 99	83	1435
Calculating-machine.....	A. S. McCaskey.....	616,132	Dec. 20	1686	392 393 394 395	85	1771
Calculating-machine.....	J. C. McLeland.....	611,269	Sept. 27	2057	474 475 365	84	1891
Calculating-machine.....	G. B. and E. R. Peters.....	605,909	June 21	1590	366 367	83	1693
Calculating-machine.....	W. H. Pike, Jr.....	615,895	Dec. 13	1213	284	85	1662



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Calculator.....	H. E. Hull.....	601,470	Mar. 29	3290	744	82	1925
Calculator. Arithmetical.....	W. A. Drake.....	614,849	Nov. 29	2919	670	85	1241
Calculator. Arithmetical.....	W. A. Drake.....	614,850	Nov. 29	2922	671	85	1242
Calculator. Interest.....	W. A. Drake.....	614,851	Nov. 29	2925	671	85	1242
Calendar.....	M. Cowen.....	601,949	Apr. 5	643	134	83	120
Calendar.....	C. W. Frost.....	600,344	Mar. 8	1327	303	82	1492
Calendar and whist-counter.....	A. W. Mathews.....	610,910	Sept. 20	1379	316	84	1743
Calendar. Automatic perpetual.....	J. W., R. L., and H. T. Irwin.....	615,221	Nov. 29	3660	839	85	1386
Calendar. Perpetual.....	O. H. S. Anson.....	604,649	May 24	2614	598	83	1173
Calendering-machine.....	P. Dillon.....	600,518	Mar. 15	1653	377	82	1574
Calendering-machine.....	P. Dillon.....	600,519	Mar. 15	1656	378	82	1574
Calipers.....	H. A. Pike.....	611,391	Sept. 27	2301	531	84	1935
Calipers.....	F. A. Thompson.....	600,049	Mar. 1	765	174	82	1363
Calipers and dividers.....	J. E. Taulman.....	607,296	July 12	1244	265	84	257
Calipers. Center-finding register.....	G. W. Davis.....	608,183	Aug. 2	26	7	84	659
Calk. Detachable.....	L. Jorgenson.....	601,260	Mar. 29	2911	663	82	1853
Calk. Reversible.....	K. J. Gaitzsch.....	608,665	Aug. 9	897	205	84	852
Calk. Three-sided.....	L. M. Serban.....	611,288	Sept. 27	2101	484	84	1900
Call-box system.....	E. E. Salisbury and A. E. Dean.....	605,345	June 7	557	124	83	1459
Call-box system. Electric.....	W. T. Budds.....	598,853	Feb. 8	1330	321	82	872
Calorimeter or heat-measuring apparatus.....	E. A. Uehling.....	606,749	July 5	214	46, 47	84	44
Cam. Double.....	R. F. Emmerich and F. Vonderlehr.....	615,441	Dec. 6	423	101	85	1494
Cam filling-piece.....	E. A. Blanton, Jr.....	611,556	Sept. 27	2602	600	84	1993
Cam-grooves. Machine for forming irregular.....	J. Reece.....	607,628	July 19	2028	420	84	430
Came.....	C. C. Tracy.....	598,827	Feb. 8	1232	310	82	863
Camera focusing attachment.....	D. E. Sharretts.....	606,394	June 28	2534	587	83	1890
Camera. Folding.....	H. M. Reichenbach.....	613,310	Nov. 1	150	35	85	646
Camera for Roentgen-ray photography. Portable.....	G. Seguy.....	601,172	Mar. 22	2742	630	82	1793
Camera. Kinetographic.....	T. H. Blair.....	611,231	Sept. 27	1984	458	84	1878
Camera. Kinetographic.....	W. H. Daniels.....	604,733	May 31	2779	635	83	1223
Camera. Kinetographic.....	W. B. Davis.....	601,951	Apr. 5	646	135	83	121
Camera. Kinetographic.....	F. H. Morse.....	607,783	July 19	2286	482	84	478
Camera. Kinetographic.....	A. F. Parnaland.....	610,560	Sept. 13	782	178	84	1605
Camera. Kinetographic.....	E. Unger and P. F. Krug.....	596,687	Jan. 4	405	91, 92	82	80
Camera. Magazine.....	J. J. Chase.....	604,204	May 17	1798	405	83	1000
Camera. Magazine.....	K. E. and F. V. Conley.....	599,314	Feb. 22	2134	506	82	1063
Camera. Magazine.....	G. H. Hurlbut.....	616,107	Dec. 20	1634	382	85	1762
Camera. Magazine.....	B. Marx and H. Gassner.....	610,453	Sept. 6	580	128	84	1550
Camera. Magazine.....	J. A. Mosher.....	599,188	Feb. 15	1900	450	82	996
Camera. Panoramic.....	F. L. Gregory.....	611,010	Sept. 20	1559	359	84	1777
Camera. Photographic.....	F. A. Brownell.....	605,851	June 21	1489	340	83	1673
Camera. Photographic.....	J. Collier.....	600,515	Mar. 15	1646	376	82	1573
Camera. Photographic.....	C. A. Dake, F. P. Shepard, and F. S. Peck.....	597,268	Jan. 11	1397	327	82	287
Camera. Photographic.....	H. and C. Gamwell.....	598,701	Feb. 8	1093	263	82	827
Camera. Photographic.....	H. and C. Gamwell.....	598,728	Feb. 8	1137	274	82	835
Camera. Photographic.....	J. P. Meyer.....	598,569	Feb. 8	863	207	82	785
Camera. Photographic.....	J. A. Mosher.....	598,804	Feb. 8	1247	302	82	856
Camera. Photographic copying.....	H. Stender.....	606,593	June 28	2893	670	83	1962
Camera. Photographic copying.....	H. Stender.....	606,594	June 28	2895	670	83	1962
Camera. Photographic magazine.....	E. E. Flora.....	599,556	Feb. 22	2603	611	82	1154
Camera. Roll-holding.....	H. E. Bryant.....	608,026	July 26	2798	594	84	597
Camera. Roll-holding.....	W. V. Esmond.....	607,428	July 19	1491	317	84	321
Camera. Roll-holding.....	E. P. Pasquier.....	597,857	Jan. 25	2419	564	82	520
Camera stand. Photographic.....	M. Levy.....	604,990	May 31	3193	735	83	1304
Cameras. Multiplying plate-holder for photographic.....	S. Dwight.....	615,064	Nov. 29	3346	768	85	1324
Camphor. Refining.....	W. Schmidt.....	610,664	Sept. 13	945	-----	84	1640
Can:							
See Automatic can. Jacketed can.							
Coffee-can. Key-opening can.							
Corrugated can. Meat-can.							
Creaming-can. Milk-can.							
Fruit-can. Oil-can.							
Fruit-shipping can. Sealing-wax can.							
Grocery-can. Sheet-metal can.							
Hermetically-sealed can. Shipping-can.							
can. Tin can.							
Can.....	E. M. Hallbauer.....	603,817	May 10	1041	232	83	820
Can.....	E. Norton.....	602,467	Apr. 19	1521	346	83	319
Can.....	F. J. Schleicher.....	602,775	Apr. 19	2045	462	83	418
Can.....	S. H. Schmuck.....	613,888	Nov. 8	1187	271	85	863
Can-bodies. Roller-machine for forming round.....	H. C. Campen.....	606,855	July 5	418	89	84	83
Can-body.....	C. M. Brown and E. P. Holden.....	598,555	Feb. 8	836	200	82	779
Can-body-forming machines. Horn extension for.....	R. Steegmüller.....	602,647	Apr. 19	1827	416	83	375
Can-body machine.....	E. P. Holden and C. M. Brown.....	598,567	Feb. 8	854	204	82	783
Can-cleaner.....	F. A. Odin.....	605,677	June 14	1138	264	83	1589
Can closure. Milk.....	E. M. Peacock.....	610,720	Sept. 13	1039	240	84	1659
Can closure. Oil.....	G. Stockton.....	614,035	Nov. 8	1415	324	85	909
Can cover. Milk.....	C. Congdon.....	613,442	Nov. 1	418	95	85	696
Can cover. Milk.....	E. E. Harvey.....	605,425	June 7	703	156	83	1488
Can cover. Milk.....	T. R. Hetland.....	610,902	Sept. 20	1369	313	84	1741
Can-covers. Machine for lining metal.....	J. Brenzinger.....	597,386	Jan. 18	1606	373	82	346



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Can-crimping machine .....	J. Des Brisay .....	615,061	Nov. 29	3336	766 767	85	1322
Can-end-crimping machine .....	J. F. Neilson .....	607,266	July 12	1189	254	84	245
Can ending or heading machine .....	H. Schaake .....	605,189	June 7	234	56, 57	83	1395
Can-filling apparatus. Oil .....	A. Campbell and J. Urie .....	602,282	Apr. 12	1205	265	83	242
Can-filling machine .....	F. W. Smith .....	606,034	June 21	1846	425	83	1738
Can-head. Key-opening .....	B. W. Morfoot .....	606,471	June 28	2673	615	83	1919
Can-heading machine .....	W. J. Gordon .....	612,031	Oct. 11	784	193 194	85	164
Can-heading machine .....	E. P. Holden .....	598,566	Feb. 8	851	203 204	82	782
Can-lacquering machine .....	C. A. Burt .....	610,165	Sept. 6	9	3	84	1444
Can lock. Milk .....	H. F. and F. Leseman .....	614,732	Nov. 22	2702	616	85	1184
Can lock. Milk .....	J. G. Staudenmayer .....	603,489	May 3	459	102	83	689
Can lock. Milk .....	P. Weitz and R. F. Berkebile .....	616,754	Dec. 27	2874	666	85	2025
Can-opener .....	A. Altman .....	613,653	Nov. 8	763	175	85	783
Can-opener .....	P. Beavers .....	604,016	May 17	1447	324	83	932
Can-opener .....	J. S. Beeman .....	606,701	July 5	119	26	84	26
Can-opener .....	R. W. Clarke .....	612,483	Oct. 18	1574	376	85	327
Can-opener .....	M. F. Connett .....	608,575	Aug. 9	721	165	84	819
Can-opener .....	M. F. Connett, Jr. ....	609,413	Aug. 23	2324	548	84	1155
Can-opener .....	C. Francisco .....	604,878	May 31	3017	692	83	1269
Can-opener .....	W. R. Gluyas .....	597,768	Jan. 25	2255	525	82	489
Can-opener .....	F. E. Gowen .....	606,805	July 5	324	67	84	65
Can-opener .....	L. Hamel .....	601,139	Mar. 22	2683	614 615	82	1783
Can-opener .....	G. R. Howell .....	602,757	Apr. 19	2014	456	83	412
Can-opener .....	W. S. Kerr .....	602,455	Apr. 19	1499	342	83	314
Can-opener .....	E. S. Lefler .....	597,724	Jan. 25	2182	510	82	474
Can-opener .....	H. E. Raymond .....	613,076	Oct. 25	2628	622	85	550
Can-opener .....	S. D. Talbert .....	601,182	Mar. 22	2763	633	82	1797
Can-opener and ice-pick .....	J. Brady .....	609,406	Aug. 23	2312	546	84	1153
Can-opener. Rotary .....	W. Gregson .....	598,065	Jan. 25	2769	645	82	588
Can-opening nozzle .....	V. I. Copland .....	609,500	Aug. 23	2495	583	84	1187
Can or like closure .....	A. B. McNairy .....	609,239	Aug. 16	2014	478	84	1076
Can-side-seam-fusing machine .....	J. Gersant and A. G. Buttifant .....	605,605	June 14	1001	231	83	1563
Can-spout .....	R. Dreyer .....	610,737	Sept. 13	1067	245	84	1664
Can-testing machine .....	E. P. Holden and J. L. Board .....	609,232	Aug. 16	1998	474 475	84	1073
Can-testing machine .....	A. Johnson .....	598,519	Feb. 8	776	186 187	82	767
Can-top .....	M. E. Henderson .....	610,049	Aug. 30	3464	803	84	1389
Can-wiring machine .....	A. C. Campbell .....	600,487	Mar. 8	1568	360 361 362	82	1536
Cans, bottles, &c. Adjustable holder and tilter for .....	E. S. Webster and W. H. Hoegee .....	600,464	Mar. 8	1536	353	82	1531
Cans, bottles, jugs, &c. Device for handling .....	C. A. R. Youngquist .....	613,788	Nov. 8	1009	230	85	829
Cans. Combined body-blank and connecting-strip for packing- .....	H. C. Hunter .....	604,394	May 24	2148	482	83	1087
Cans, &c. Device for closing .....	G. J. Record .....	604,079	May 17	1567	351	83	954
Cans, &c. Device for handling .....	A. Jensen .....	600,004	Mar. 1	593	136	82	1325
Cans. Screw-cap sealing-nozzle for .....	E. Norton .....	602,465	Apr. 19	1516	346	83	318
Cans. Testing air-tightness of closed or filled tin. ....	O. Asche .....	597,233	Jan. 11	1344	314	82	276
Canning food .....	E. Norton .....	602,096	Apr. 12	878	191	83	178
Canal-lock .....	E. A. Manny .....	610,548	Sept. 13	758	173	84	1600
Canceler and postmarker. Stamp .....	S. B. Holmes and J. W. Milam .....	597,981	Jan. 25	2633	615	82	561
Candelabrum .....	H. F. Nehr .....	599,190	Feb. 15	1905	451	82	996
Candelabrum .....	H. F. Nehr .....	610,821	Sept. 13	1229	283	84	1696
Candle-holder .....	F. J. Bublitz .....	603,871	May 10	1149	258	83	840
Candle-holder .....	F. W. Grundmann .....	599,527	Feb. 22	2550	599	82	1144
Candle-holder .....	F. W. Steinenböhmer .....	611,397	Sept. 27	2312	533	84	1938
Candle holder and extinguisher .....	J. W. Kynast .....	601,754	Apr. 5	254	50	83	48
Candle-holder for Christmas trees .....	F. Krause and K. Heine .....	601,397	Mar. 29	3168	716	82	1902
Candlestick. Miner's .....	F. S. Moore .....	600,591	Mar. 15	1780	407	82	1597
Candlestick. Miner's .....	A. Nissen .....	612,432	Oct. 18	1484	358	85	309
Candy-cutting machine .....	C. C. York .....	599,414	Feb. 22	2331	551	82	1102
Candy. Dish composed of .....	D. Muger and P. Totzauer .....	612,806	Oct. 18	2166	515	85	439
Candy-machine .....	E. F. Gould .....	604,314	May 17	2002	449	83	1039
Candy-machine .....	A. G. McCausland .....	616,723	Dec. 27	2834	656	85	2017
Cane and gas-light. Combined .....	E. N. Dickerson .....	610,478	Sept. 6	629	141	84	1559
Cane-conveyer .....	W. A. Marsh and H. N. Pharr .....	601,578	Mar. 29	3461	787	82	1962
Cane-conveyer and feeding apparatus .....	L. P. Cohen .....	614,647	Nov. 22	2543	580	85	1154
Cane-crusher .....	A. L. Marshall .....	608,885	Aug. 9	1305	304	84	927
Cane-crusher .....	B. Thoens .....	615,590	Dec. 6	690	159	85	1543
Cane-crushing apparatus .....	A. Pesant .....	600,823	Mar. 15	2158	493	82	1669
Cane-cutter .....	A. Le Blanc .....	610,069	Aug. 30	3495	810	84	1395
Cane, &c. Device for transporting and weighing .....	A. S. Hallidie .....	597,904	Jan. 25	2491	581	82	533
Cane. Flag .....	J. Schumm .....	614,277	Nov. 15	1867	431	85	1014
Cane from cars, &c. Apparatus for unloading sugar- .....	J. W. Bodley .....	611,167	Sept. 20	1849	426	84	1832
Cane header. Sugar .....	C. W. MacWilliams .....	601,153	Mar. 22	2703	622	82	1787
Cane-loading machine .....	E. W. Wiley, Jr .....	599,754	Mar. 1	141	32, 33	82	1242
Cane-mill housing .....	B. Thoens .....	615,591	Dec. 6	691	159	85	1548
Cane on cane-carriers. Apparatus for storing and feeding sugar- .....	J. P. Kemper .....	601,149	Mar. 22	2698	620	82	1786
Cane-sling .....	J. Mallon .....	610,816	Sept. 13	1219	281	84	1695
Canister .....	L. Lebkuocher .....	601,475	Mar. 29	3296	746	82	1927
Canister. Shipping and dispensing .....	F. F. Jaques .....	611,487	Sept. 27	2480	572	84	1969
Canopy for bicycles, &c. Folding .....	A. S. Burnham .....	614,364	Nov. 15	2027	467 468	85	1045
Canopy-frame for mosquito-nets .....	R. W. Ivy .....	598,098	Feb. 1	51	12	82	612
Canopy. Insect .....	N. W. Stearns .....	599,874	Mar. 1	381	86	82	1285
Canopy-supporter .....	E. Nugent .....	615,738	Dec. 13	951	221	85	1612
Cant-hook .....	J. M. Ellis .....	601,093	Mar. 22	2606	594	82	1768
Canteen. Bicycle .....	L. A. Hawkins and W. N. O. Gardner .....	596,998	Jan. 11	951	225	82	202
Canvas-stretcher .....	J. W. Nunns .....	602,353	Apr. 12	1319	293	83	265



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				Spec.	Dr. g.	Vol.	Page.
Cap and girder-support. Combined	G. R. Kurrie	609,441	Aug. 23	2369	558	84	1164
Cap-forming apparatus. Corrugated	W. Painter	613,936	Nov. 8	1254	285	85	876
Cap-forming mechanism	E. Hoffman and R. P. Frist	611,632	Oct. 4	67	16	85	15
Caponizer	A. M. Duncan	604,737	May 31	2785	637	83	1224
Capo tasto	P. Benson	608,278	Aug. 2	186	45	84	691
Capstan	T. Huntbatch	613,998	Nov. 8	1357	309	85	897
Capstan	J. B. Sample	605,346	June 7	561	124	83	1459
Capsule-holding machine	T. E. Ihrig	596,813	Jan. 4	632	145	82	122
Capsule-machine	D. Genese	600,863	Mar. 22	2235	509	82	1698
					510		
Car	J. F. Caldwell	603,170	Apr. 26	2731	621	83	564
					622		
Car	M. J. Griffin and P. W. Hogan	610,442	Sept. 6	562	124	84	1546
Car	I. J. Hoyt	602,079	Apr. 12	848	185	83	172
Car	G. W. and G. W. Penn, Jr	612,053	Oct. 11	826	202	85	172
Car. Adjustable double-deck stock	C. J. Stram	600,750	Mar. 15	2047	468	82	1649
Car alarm mechanism	G. Klein, Jr	614,871	Nov. 29	2959	679	85	1249
Car and air-brake coupling. Automatic combined	J. B. Thomas	603,824	May 10	1053	235	83	822
Car and air-brake coupling. Combined automatic	J. B. Thomas	603,823	May 10	1051	235	83	822
Car and locomotive replacer	G. A. Bull	597,951	Jan. 25	2579	602	82	550
Car and mowing-machine. Combined hand	J. L. Smith	599,201	Feb. 15	1919	454	82	999
Car and railway system therefor. Mining	J. Dwyer	602,435	Apr. 19	1460	331	83	308
					332		
Car appurtenance. Passenger	E. F. Matheny	603,855	May 10	1122	252	83	834
Car attachment. Box	C. H. Osborn	615,740	Dec. 13	954	221	85	1613
Car. Ballast	H. Shepherd	616,263	Dec. 20	1954	455	85	1825
Car bicycle-support. Railway	G. L. Kahle	603,509	May 3	497	109	83	697
Car-bolster	C. E. Bauer	604,555	May 24	2457	559	83	1141
Car-bolster	T. M. Gallagher	604,609	May 24	2548	581	83	1161
					582		
Car-bolster	W. Smith and G. G. Davis	614,585	Nov. 22	2424	553	85	1132
Car bolster. Railway	J. M. Maris	601,270	Mar. 29	2952	668	82	1862
Car bolster. Railway	C. T. Schoen	604,794	May 31	2875	657	83	1242
Car-bolster. Rolled-steel	J. M. Maris	602,910	Apr. 26	2292	522	83	479
Car-brake	A. H. Bostley	603,439	May 3	342	76	83	665
Car-brake	J. T. Davis	598,981	Feb. 15	1560	370	82	932
					371		
Car-brake	G. W. Dickey	615,819	Dec. 13	1096	257	85	1640
Car-brake	P. S. Durel	609,143	Aug. 16	1825	433	84	1038
Car-brake	F. O. Godman	615,353	Dec. 6	244	57, 58	85	1461
Car-brake	F. G. Koehler	600,081	Mar. 1	826	190	82	1375
Car-brake	E. C. Nichols	607,069	July 12	808	177	84	176
Car-brake	A. J. O'Hara	615,739	Dec. 13	952	221	85	1612
Car-brake	J. H. Rooney	596,666	Jan. 4	368	81	82	73
Car-brake	J. Ruff	606,585	June 28	2879	663	83	1960
Car-brake	A. Shedlock	601,450	Mar. 29	3259	737	82	1919
Car-brake	J. S. Wickes and J. Ketterly	605,531	June 14	857	201	83	1538
Car brake and fender	O. B. Whitney	609,646	Aug. 23	2773	646	84	1240
					647		
Car brake and fender. Combined	H. J. Raisch	613,719	Nov. 8	880	204	85	804
Car-brake. Automatic	F. A. Perry	608,429	Aug. 2	472	106	84	749
Car brake-beam. Railway	T. H. Simpson and P. T. Handiges	606,308	June 28	2376	550	83	1861
Car-brake. Center-wheel	F. Gähler	609,093	Aug. 16	1720	410	84	1020
Car-brake. Electric	C. F. de Redon	597,432	Jan. 18	1684	391	82	360
Car brake. Electric-motor	P. B. Hayes and H. M. Carbine	601,206	Mar. 22	2804	641	82	1805
Car-brake. Electrohydrostatic automatic	J. Buchel and F. McGloin	606,330	June 28	2418	560	83	1870
					561		
Car brake. Electromagnetic railway	C. F. de Redon	597,433	Jan. 18	1686	391	82	361
Car-brake. Emergency	P. Casey, Jr	597,813	Jan. 25	2346	548	82	506
Car-brake handle	E. C. Collins	611,058	Sept. 20	1642	376	84	1792
Car brake-lever. Railway	J. H. Baker	607,595	July 19	1970	409	84	419
Car brake mechanism. Railway	W. E. Elliott	607,920	July 26	2585	548	84	554
Car brake mechanism. Railway	J. H. Graham	610,676	Sept. 13	964	223	84	1644
Car brake. Railway	C. P. Hammond	614,862	Nov. 29	2946	676	85	1246
					677		
Car brake-shoe slack-adjuster. Railway	H. F. Shaw	599,662	Feb. 22	2818	655	82	1197
Car brake. Street or railway	J. A. Hughes	597,772	Jan. 25	2261	527	82	490
Car brake. Trolley	A. H. Klingler	605,485	June 14	788	181	83	1524
Car-buffer	H. F. Ball	604,451	May 24	2257	507	83	1107
Car-buffer	A. M. Waitt	604,442	May 24	2341	503	83	1104
Car buffer equipment. Railway	H. H. Sessions	605,521	June 14	840	196	83	1534
Car buffer-platform. Railway	T. L. McKeen	601,900	Apr. 5	535	110	83	101
					111		
Car-bumper	J. McMahon	609,159	Aug. 16	1853	440	84	1043
Car. Burglar-proof express	O. J. Foster	599,170	Feb. 15	1875	444	82	991
Car center-bearing. Railway	H. H. Sessions	605,522	June 14	843	196	83	1535
					197		
Car center-plate. Railway	P. Reilly	599,150	Feb. 15	1842	436	82	986
Car center sill. Railway	G. Westinghouse	615,118	Nov. 29	3433	788	85	1340
					789		
Car. Cinder	E. E. Slick and T. Morrison	603,117	Apr. 26	2648	601	83	548
					602		
Car. Combined day and sleeping	W. T. Eastes	615,689	Dec. 13	868	200	85	1596
					201		
Car. Combined ventilating and refrigerator	F. Thompson	608,237	Aug. 2	119	29	84	677
					24		
Car construction	R. B. Campbell and H. Carlton	598,136	Feb. 1	104	25	82	622
					26		
Car construction	R. P. Lamont	611,069	Sept. 20	1656	378	84	1795
Car controller. Electric	J. C. Henry	597,374	Jan. 11	1585	368	82	326
Car controller. Motor	A. P. Dodge	616,089	Dec. 20	1599	373	85	1755
Car. Convertible dumping	G. W. Miller	600,694	Mar. 15	1955	446	82	1630
Car. Convertible freight	M. F. White	606,698	July 5	113	24, 25	84	24
Car. Convertible hand	P. Armstrong	610,297	Sept. 6	303	65	84	1500
Car. Convertible street-railway	G. Moore	602,604	Apr. 19	1748	398	83	360
					399		



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-coupling	W. R. Ambrose	600,396	Mar. 8	1409	322	82	1508
Car-coupling	J. F. Ball, Jr	605,624	June 14	1046	323	83	1571
Car-coupling	R. C. Beckett	610,519	Sept. 13	710	161	84	1591
Car-coupling	L. L. Bigelow	599,588	Feb. 22	2667	624	82	1166
Car-coupling	W. H. Bonwell, Jr	607,334	July 12	1313	280	84	271
Car-coupling	J. M. Brown and L. D. Peak	603,889	May 10	1182	267	83	846
Car-coupling	P. Brown	612,396	Oct. 18	1419	343	85	297
Car-coupling	P. C. Brown	607,731	July 19	2195	463	84	462
Car-coupling	J. D. Bryan	601,119	Mar. 22	2650	605	82	1777
Car-coupling	J. Cadwell	615,803	Dec. 13	1068	251	85	1634
Car-coupling	H. F. Camp	604,227	May 17	1833	411	83	1006
Car-coupling	R. M. Chance	598,768	Feb. 8	1196	288	82	847
Car-coupling	H. M. Cox	603,176	Apr. 26	2740	624	83	566
Car-coupling	J. E. Cunningham	605,287	June 7	436	98	83	1435
Car-coupling	F. Dawson and W. O. Easton	612,382	Oct. 11	1396	338	85	279
Car-coupling	A. Dougherty	611,066	Sept. 20	1651	378	84	1794
Car-coupling	R. H. Dowling	608,764	Aug. 9	1062	244	84	883
Car-coupling	F. Duplaisir	596,963	Jan. 4	886	208	82	172
Car-coupling	C. Dutchburn	597,575	Jan. 18	1930	449	82	410
Car-coupling	W. D. Earl	611,315	Sept. 27	2145	496	84	1908
Car-coupling	J. B. Eaves	598,500	Feb. 8	740	179	82	760
Car-coupling	J. J. Ehlers	616,091	Dec. 20	1603	374	85	1756
Car-coupling	V. Erbach	608,112	July 26	2922	626	84	622
Car-coupling	J. W. Fawcett	602,029	Apr. 5	765	165	83	145
Car-coupling	A. Finnie	598,244	Feb. 1	302	69	82	659
Car-coupling	G. J. Forrey	601,643	Apr. 5	31	7	83	8
Car-coupling	T. M. Gallagher	605,055	May 31	3309	760	83	1326
Car-coupling	M. B. Giberson	597,462	Jan. 18	1751	405	82	374
Car-coupling	G. K. Hamfeldt	599,899	Mar. 1	433	95	82	1295
Car-coupling	G. K. Hamfeldt	600,690	Mar. 15	1950	444	82	1629
Car-coupling	P. T. Handiges	604,934	May 31	3112	715	83	1288
Car-coupling	H. A. Hanna	596,875	Jan. 4	733	172	82	143
Car-coupling	R. G. Hardesty	599,901	Mar. 1	435	96	82	1296
Car-coupling	H. W. Harrington	613,992	Nov. 8	1348	307	85	895
Car-coupling	P. Hien	598,990	Feb. 15	1577	374	82	936
Car-coupling	W. H. Hopkins and J. S. Evans	611,124	Sept. 20	1773	406	84	1818
Car-coupling	C. D. Horgan	598,373	Feb. 1	520*	126	82	700
Car-coupling	W. A. Horrall	614,267	Nov. 15	1851	428	85	1012
Car-coupling	A. L. Humphrey	608,965	Aug. 9	1458	345	84	956
Car-coupling	P. H. Jacobs	614,551	Nov. 22	2357	539	85	1120
Car-coupling	J. Jeffery	608,128	July 26	2947	632	84	627
Car-coupling	G. B. Johnston	604,864	May 31	2397	688	83	1265
Car-coupling	E. E. Joy	603,062	Apr. 26	2541	577	83	526
Car-coupling	W. K. Kight	613,768	Nov. 8	975	223	85	823
Car-coupling	M. A. Knowles	604,586	May 24	2512	571	83	1153
Car-coupling	A. F. Kuhlmann	610,814	Sept. 13	1217	280	84	1694
Car-coupling	H. Laake	599,567	Feb. 22	2630	616	82	1159
Car-coupling	J. A. Lanham	616,338	Dec. 20	2087	486	85	1852
Car-coupling	J. M. Larkin	615,561	Dec. 6	645	147	85	1538
Car-coupling	A. M. Larue	610,714	Sept. 13	1032	238	84	1658
Car-coupling	E. B. Laughter	605,726	June 14	1214	281	83	1604
Car-coupling	J. Linden	597,615	Jan. 18	1995	465	82	423
Car-coupling	G. H. Lippmann	614,663	Nov. 22	2579	586	85	1159
Car-coupling	H. and A. Loiselle	608,056	July 26	2839	605	84	605
Car-coupling	I. Low	602,342	Apr. 12	1301	289	83	262
Car-coupling	W. B. Lyon	613,696	Nov. 8	832	190	85	796
Car-coupling	J. O. Marks	607,183	July 12	1028	222	84	215
Car-coupling	R. H. McCaughey	602,605	Apr. 19	1749	399	83	361
Car-coupling	D. A. McCollum	613,071	Oct. 25	2619	620	85	548
Car-coupling	T. L. McKeen	601,901	Apr. 5	536	111	83	101
Car-coupling	F. McTaggart	605,742	June 14	1241	287	83	1609
Car-coupling	P. W. Möller	598,156	Feb. 1	141	33	82	629
Car-coupling	C. E. Moore and J. Doyle	605,737	June 14	1234	285	83	1608
Car-coupling	H. C. Muddiman	614,489	Nov. 22	2271	519	85	1105
Car-coupling	J. Munton	612,051	Oct. 11	823	202	85	171
Car-coupling	J. I. Newburg	603,340	May 3	169	39	83	634
Car-coupling	W. K. Noland	607,763	July 19	2249	475	84	472
Car-coupling	J. K. Oden and S. K. Boleman	606,935	July 5	525	115	84	104
Car-coupling	B. F. Olmsted	606,999	July 5	644	140	84	128
Car-coupling	C. S. and G. B. Park	616,203	Dec. 20	1831	423	85	1800
Car-coupling	T. W. Parks	600,317	Mar. 8	1281	293	82	1484
Car-coupling	O. C. Patton	614,337	Nov. 15	1975	456	85	1036
Car-coupling	J. P. Paulissen	608,708	Aug. 9	972	223	84	866
Car-coupling	W. C. Perkins	602,359	Apr. 12	1330	295	83	268
Car-coupling	W. C. Perkins	602,914	Apr. 26	2297	523	83	480
Car-coupling	J. Pierce	598,181	Feb. 1	191	45	82	639
Car-coupling	G. W. Preston	599,987	Mar. 1	568	131	82	1320
Car-coupling	J. W. Price	616,354	Dec. 20	2125	495	85	1860
Car-coupling	M. Prieto	600,209	Mar. 8	1104	252	82	1450
Car-coupling	F. R. Rapp	603,204	Apr. 26	2786	635	83	574
Car-coupling	S. Reynolds	599,358	Feb. 22	2227	529	82	1080
Car-coupling	W. F. Richards	613,314	Nov. 1	166	37	85	649
Car-coupling	T. Riley	612,178	Oct. 11	1037	249	85	213
Car-coupling	J. L. Ritter and J. M. Moyers	600,993	Mar. 22	2451	558	82	1738
Car-coupling	G. T. Rohn	606,583	June 28	2875	662	83	1959
Car-coupling	W. W. Rudy	607,769	July 19	2261	478	84	474
Car-coupling	J. P. Runkel	597,861	Jan. 25	2429	566	82	522



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Car-coupling	A. Ruscher	606,245	June 28	2264	523	83	1838
Car-coupling	R. C. Sayer	603,996	May 10	1363	310	83	882
Car-coupling	G. Schneider	616,363	Dec. 20	2137	497	85	1863
Car-coupling	W. Shanklin	608,719	Aug. 9	986	227	84	869
Car-coupling	W. C. Shaw	615,916	Dec. 13	1256	294	85	1670
Car-coupling	J. G. Sherrill	612,280	Oct. 11	1220	291	85	246
Car-coupling	C. M. Siever	614,505	Nov. 22	2293	526	85	1108
Car-coupling	J. H. Simcox	613,429	Nov. 1	400	92	85	692
Car-coupling	G. W. Smillie	602,879	Apr. 26	2228	504	83	468
Car-coupling	C. H. Smith	604,505	May 24	2367	537	83	1126
Car-coupling	J. E. Smith	606,688	July 5	94	20, 21	84	21
Car-coupling	C. F. Springer	599,977	Mar. 1	554	128	82	1318
Car-coupling	J. F. Strahle	597,792	Jan. 25	2311	538	82	498
Car-coupling	J. Swihart	611,656	Oct. 4	112	28	85	25
Car-coupling	G. C. Thompson	615,925	Dec. 13	1279	298	85	1673
Car-coupling	J. Timms	606,603	June 28	2914	674	83	1965
Car-coupling	J. Timms	612,285	Oct. 11	1241	297	85	250
Car-coupling	C. A. Tower	601,847	Apr. 5	445	90	83	83
Car-coupling	W. J. Trevesick	610,666	Sept. 13	947	219	84	1640
Car-coupling	P. Ullman	603,298	May 3	91	22, 23	83	619
Car-coupling	H. H. Warner	611,025	Sept. 20	1585	363	84	1782
Car-coupling	J. H. Whitfield	612,469	Oct. 18	1553	372	85	323
Car-coupling	L. R. Whiting	602,493	Apr. 19	1558	355	83	326
Car-coupling	W. D. Widders	612,470	Oct. 18	1554	372	85	323
Car-coupling	J. T. Wilson	597,699	Jan. 18	2142	500	82	449
Car-coupling	W. T. Wilson	600,995	Mar. 22	2455	559	82	1739
Car-coupling and operating device therefor	S. Bedford	616,395	Dec. 20	2191	512	85	1872
Car coupling attachment. Railway	W. Thornburgh	606,102	June 21	1974	453	83	1763
Car-coupling. Automatic	H. R. Cochran	609,792	Aug. 30	3009	705	84	1299
Car-coupling. Automatic	J. M. Inskeep	601,567	Mar. 29	3444	783	82	1958
Car-coupling. Automatic	C. Mehring	613,523	Nov. 1	558	126	85	721
Car-coupling. Automatic	M. M. Pettes	615,742	Dec. 13	956	222	85	1613
Car coupling. Automatic railway	I. Kohler	612,208	Oct. 11	1085	260	85	222
Car-coupling. Automatic safety	J. W. Turk and W. T. Harris	599,883	Mar. 1	396	88	82	1288
Car-coupling device	A. J. Chapel	600,192	Mar. 8	1082	244	82	1445
Car-coupling draft-rigging	J. Christie	609,410	Aug. 23	2318	547	84	1154
Car-coupling emergency-knuckle	G. H. Gilman and J. H. Brown	600,095	Aug. 16	1723	410	84	1021
Car-coupling knuckle	B. F. Haugh and G. H. Vincett. (Reissue.)	11,704	Nov. 29	3680	843	85	1390
Car-coupling knuckles. Device for opening	G. K. Hamfeldt	599,900	Mar. 1	494	96	82	1296
Car-couplings. Uncoupling-lever and lever-lock for	W. Kelso	601,020	Mar. 22	2496	568	82	1746
Car-door	R. L. Colby	613,495	Nov. 1	514	116	85	713
Car-door	W. R. Ellis	610,940	Sept. 20	1427	328	84	1752
Car-door	W. O. Harlow	604,899	May 31	3048	699	83	1275
Car-door	G. P. Jones	609,813	Aug. 30	3046	712	84	1306
Car-door	J. W. Kennedy	599,507	Feb. 22	2519	598	82	1137
Car-door	E. S. Marshall	601,665	Apr. 5	73	14	83	15
Car-door	O. L. Reeves	612,459	Oct. 18	1528	367	85	318
Car-door bracket	E. A. Hill	607,511	July 19	1813	377	84	390
Car-door bracket	E. A. Hill	613,274	Nov. 1	92	21	85	634
Car-door bracket	J. Hodge	607,851	July 26	2458	522	84	529
Car-door fastener	R. H. Johnson	600,789	Mar. 15	2106	482	82	1660
Car-door fastening	W. O. Davies, Jr.	603,362	May 3	201	46	83	640
Car door. Grain	C. J. Jeppesen	612,420	Oct. 18	1464	354	85	306
Car door. Grain	W. A. McGuire	606,170	June 21	2099	482	83	1786
Car door. Grain	C. L. Newstrom and T. H. Miller	602,167	Apr. 12	1011	222	83	203
Car door. Grain	S. L. Trueblood	612,445	Oct. 18	1505	363	85	314
Car-door lock	J. M. Bedford	610,427	Sept. 6	539	118	84	1542
Car-door lock. Dumping	J. Hanson	609,021	Aug. 16	1591	378	84	995
Car-door locking mechanism. Mining	J. H. Watt	601,538	Mar. 29	3405	772	82	1951
Car-door operating and locking mechanism	E. C. Vanstone	610,505	Sept. 6	687	154	84	1571
Car door. Railway	E. A. Hill	613,273	Nov. 1	91	21	85	633
Car-door track	J. G. Lawler	616,476	Dec. 27	2357	548	85	1926
Car-doors, &c. Fastening device for	G. Lightheiser	613,013	Oct. 25	2521	600	85	528
Car doors and sides. Means for protecting	J. E. Jones and W. G. Hodge	610,990	Sept. 20	1527	351	84	1770
Car draft appliance. Railway	W. T. Van Dorn	609,482	Aug. 23	2466	575	84	1182
Car draft-beam	T. W. Saling	604,421	May 24	2200	493	83	1097
Car draft-rigging. Railway	J. Conrath	606,447	June 28	2636	607	83	1912
Car draft-rigging. Railway	D. Loomis	608,522	Aug. 2	629	141	84	779
Car draw-bar. Railway	C. A. Schroyer	599,637	Feb. 22	2774	644	82	1189
Car draw-bar. Railway	S. E. Secoy	614,769	Nov. 22	2758	630	85	1196
Car draw-bar. Railway	W. T. Van Dorn	606,105	June 21	1984	455	83	1765
Car driving-gear. Motor	W. Sydenham, F. Watkinson, and A. Sydenham.	606,311	June 28	2379	550	83	1862
Car. Dump	T. R. McKnight	607,521	July 19	1828	381	84	393
Car. Dump	T. R. McKnight	612,263	Oct. 11	1194	286	85	242
Car. Dumping	J. J. Cashin and D. M. Shaffer	596,478	Jan. 4	21	5	82	7
Car. Dumping	P. R. Grabill	616,663	Dec. 27	2713	630	85	1992
Car. Dumping	C. P. Truesdell	612,555	Oct. 18	1691	402	85	349
Car. Dumping	H. C. Williamson	616,693	Dec. 27	2774	645	85	2004
Car. Dumping	H. C. Williamson and H. Pries	610,218	Sept. 6	144	31	84	1470
Car-dumping apparatus	W. Hogan	615,554	Dec. 6	633	144	85	1535
Car-dumping mechanism	D. Bennett	616,071	Dec. 20	1556	363	85	1746
Car. Electric self-loading street-cleaning	A. J. Reynolds	612,789	Oct. 18	2130	506	85	432
Car emergency-brake. Street	H. Loeffler	606,065	June 21	1904	438	83	1749



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Car-fender	W. W. Annable	607,977	July 26	2682	572	84	572
Car-fender	W. C. Collyer and W. F. Bullock	611,677	Oct. 4	148	37	85	32
Car-fender	C. Coplantz	612,021	Oct. 11	769	190	85	161
Car-fender	F. S. Davidge	599,770	Mar. 1	168	41	82	1248
Car-fender	G. W. Douglas	601,242	Mar. 29	2878	656	82	1847
Car-fender	J. F. Eisenhower	601,131	Mar. 22	2670	610	82	1780
Car-fender	M. Fernandez. (Reissue)	11,692	Sept. 13	1334	305	84	1719
Car-fender	M. F. Field	615,977	Dec. 13	1374	321	85	1693
Car-fender	D. Guarino	608,598	Aug. 9	768	177	84	827
Car-fender	F. A. Harris, A. M. Cupples, and M. McCann.	602,133	Apr. 12	937	204	83	189
Car-fender	H. Haywood and G. Totten	601,961	Apr. 5	661	139	83	124
Car-fender	P. Heesem	616,102	Dec. 20	1628	381	85	1761
Car-fender	G. Hipwood	596,592	Jan. 4	236	52, 53	82	47
Car-fender	M. Hirsch	612,340	Oct. 11	1326	320	85	266
Car-fender	J. D. Hodges	614,654	Nov. 22	2555	582	85	1156
Car-fender	L. J. Hunter	604,395	May 24	2148	483	83	1087
Car-fender	G. C. Hutcheson	605,284	June 7	431	97	83	1434
Car-fender	E. M. Johnson	608,728	May 10	877	194	83	788
Car-fender	P. Jones	597,216	Jan. 11	1318	307 308	82	272
Car-fender	J. Keller	601,968	Apr. 5	671	142	83	127
Car-fender	P. E. Law	609,818	Aug. 30	3051	713 714	84	1307
Car-fender	A. L. Lawton and D. L. Macaffree	607,514	July 19	1817	378	84	391
Car-fender	H. Lehrer	610,238	Sept. 6	182	41	84	1477
Car-fender	J. H. Lewis and J. M. Courtney	607,444	July 19	1515	323	84	326
Car-fender	I. Macowsky	603,912	May 10	1218	276	83	853
Car-fender	W. H. Martin	607,118	July 12	909	197	84	194
Car-fender	A. Mazzanovich	598,637	Feb. 8	980	236	82	806
Car-fender	A. Mazzanovich	609,206	Aug. 16	1932	459	84	1057
Car-fender	J. Megown	597,203	Jan. 11	1298	303 304	82	269
Car-fender	S. F. Moore	601,155	Mar. 22	2708	623	82	1788
Car-fender	I. J. Neracher	599,470	Feb. 22	2451	577	82	1124
Car-fender	J. I. Newburg	603,339	May 3	168	39	83	634
Car-fender	O. W. Norling	606,679	July 5	83	17, 18	84	19
Car-fender	G. F. Radcliffe and J. C. Slutz	600,596	Mar. 15	1786	409	82	1598
Car-fender	J. W. Range	607,954	July 26	2642	561	84	564
Car-fender	T. A. Remsen	609,394	Aug. 16	2287	541	84	1130
Car-fender	J. Sexton	613,325	Nov. 1	185	40	85	652
Car-fender	A. L. Smith	609,951	Aug. 30	3285	766	84	1354
Car-fender	H. C. Spangler	597,864	Jan. 25	2433	566	82	522
Car-fender	G. O. Spencer	604,910	May 31	3081	707	83	1281
Car-fender	J. W. Sussman	600,099	Mar. 1	867	199	82	1383
Car-fender	W. T. Watson	610,779	Sept. 13	1149	264	84	1681
Car-fender	A. C. Woodworth	607,901	July 26	2549	541	84	547
Car-fender	W. F. Young	600,601	Mar. 15	1795	410 411	82	1600
Car fender and brake	E. E. Rice	600,378	Mar. 8	1376	314 315	82	1502
Car-fender. Automatic	W. B. and W. H. Heywood	598,068	Jan. 25	2776	646 647	82	589
Car-fender. Automatic	O. E. Stahl	600,183	Mar. 8	1065	240 241	82	1442
Car-fender-lowering mechanism	R. Harris and M. K. Goldsmith	601,751	Apr. 5	249	49	83	48
Car fender or guard	P. J. Poelman	610,915	Sept. 20	1386	317 318	84	1744
Car fender or guard. Tramway-	J. Leightham	604,171	May 17	1735	390 391	83	987
Car fender or guard. Tramway-	J. R. Seaton	598,538	Feb. 8	805	193	82	772
Car-fender. Safety-buffer	J. E. Jones	601,441	Mar. 29	3244	731 732	82	1916
Car fender. Street-	J. F. Baker	597,936	Jan. 25	2542	593 594	82	542
Car fender. Street-	H. W. Bodeman	599,281	Feb. 15	2054	488	82	1026
Car fender. Street-	T. C. Forbes	616,701	Dec. 27	2789	647	85	2007
Car fender. Street-	G. A. Parmenter	612,785	Oct. 18	2125	505	85	431
Car fender. Street-	A. W. Routh	601,046	Mar. 22	2535	577	82	1754
Car fender. Street-	G. H. Smith	604,944	May 31	3123	718	83	1290
Car fender. Street-	J. E. A. Walker	604,097	May 17	1597	359	83	960
Car-fender-supporting means	H. Grootenboer	606,965	July 5	566	125	84	112
Car fender. Trolley-	O. Speckenbach	599,920	Mar. 1	464	104 105	82	1301
Car-fenders. Device for attaching	C. Sauerbrey	606,156	June 21	2068	475 476	83	1781
Car fifth-wheel. Railway-	L. B. Perry and J. C. Mitchell	605,205	June 7	276	64	83	1402
Car floor-frame. Railway-	C. C. Wentworth	608,414	Aug. 2	444	99	84	744
Car. Freight-	M. F. Blake	600,631	Mar. 15	1839	421	82	1608
Car. Freight-	F. S. Ingoldsby	613,279	Nov. 1	98	22, 23	85	635
Car. Funeral-	J. Burns	604,602	May 24	2539	579	83	1158
Car. Funeral-	J. J. Gilbride	613,507	Nov. 1	533	120	85	717
Car-gate	H. W. Brett	604,225	May 17	1831	410	83	1005
Car-gate. Folding	J. B. Wood	601,610	Mar. 29	3513	801	82	1971
Car gate. Railway-	P. Gruhn and W. Stolpner	600,261	Mar. 8	1201	272	82	1468
Car guard and step combined. Street-	W. C. Collyer and W. F. Bullock	609,082	Aug. 16	1700	405	84	1016
Car guard. Open-	C. H. Fogg	613,672	Nov. 8	789	181	85	788
Car. Hand-	P. Flesher	609,881	Aug. 30	3160	737	84	1330
Car. Hand-	M. B. Schaffer	615,753	Dec. 13	975	226 227	85	1616
Car hand-strap	F. E. Benton	605,990	June 21	1762	404	83	1724
Car hand-strap	E. P. Hendrickson	615,986	Dec. 13	1399	327	85	1698
Car hand-strap. Street-	W. R. Sands	607,592	July 19	1964	407	84	418
Car-haul	C. Piez	600,798	Mar. 15	2123	485	82	1663
Car hay-rack. Stock-	W. Cline	597,262	Jan. 11	1389	325	82	285
Car-heater	J. A. and L. H. Long	606,066	June 21	1905	439	83	1749



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Car-heating apparatus.	J. F. McElroy.	610,997	Sept. 20	1536	353	84	1772
Car-heating apparatus.	R. M. Dixon.	605,563	June 14	913	213 214	83	1550
Car-heating system.	J. F. McElroy.	608,212	Aug. 2	79	21	84	670
Car-indicator.	G. W. Tallman.	614,143	Nov. 15	1611	369	85	968
Car indicator. Railway.	E. Cros.	614,700	Nov. 22	2643	602	85	1172
Car journal-box. Railway.	F. Hoetzel.	608,332	Aug. 2	300	66	84	715
Car journal-box. Railway.	W. N. Marks.	604,539	May 24	2428	552	83	1136
Car journal-boxes. Wedge or key for.	A. M. Waitt and H. F. Ball.	601,292	Mar. 29	2990	676	82	1869
Car life-saving apparatus. Street.	H. W. Libbey.	612,691	Nov. 8	820	188	85	793
Car-lighting apparatus. Casing for electric.	W. F. Richards.	612,139	Oct. 11	969	234	85	199
Car-lighting. Electric.	W. Biddle.	613,406	Nov. 1	354	81	85	683
Car-lighting systems. Dynamo for electric.	E. J. Preston and A. B. Gill.	602,182	Apr. 12	1093	226 227	83	208
Car-line. Elevated electric.	J. H. Cooley.	604,729	May 31	2773	634	83	1222
Car-loader.	W. W. Praytor.	600,448	Mar. 8	1501	343	82	1524
Car-loader.	E. H. Reynolds.	614,891	Nov. 29	2992	686	85	1256
Car-lock.	T. B. Kirby.	605,880	June 21	1546	355	83	1685
Car. Locomotive hand-	J. McGeorge.	599,912	Mar. 1	451	100 101	82	1299
Car mechanism. Street-	F. S. Pearson.	616,585	Dec. 27	2548	589	85	1960
Car. Mining.	A. Maxwell.	616,793	Dec. 27	2944	686	85	2039
Car. Motor.	C. O. Palmer.	609,043	Aug. 16	1637	391	84	1005
Car motor. Street-	T. D. Hoskins.	615,274	Dec. 6	98	26, 27	85	1432
Car motors. Mechanism for starting, stopping, and controlling speed of electric.	F. H. Foster.	598,199	Feb. 1	222	51, 52	82	645
Car-mover.	H. Hardy.	609,541	Aug. 23	2557	598	84	1198
Car-mover.	G. W. Rittenhouse and F. Miller.	607,885	July 26	2523	535	84	541
Car-mover.	P. Wise.	611,747	Oct. 4	272	65	85	56
Car or like receptacle. Overhead.	A. M. Acklin.	605,620	June 14	1040	239	83	1570
Car or locomotive wheel.	F. C. Butze and C. C. Hewitt.	597,174	Jan. 11	1253	293	82	260
Car or other ventilator. Railway.	W. E. Andrew.	600,975	Mar. 22	2416	552	82	1731
Car. Ore.	G. E. Truax.	601,203	Mar. 22	2799	640	82	1804
Car. Ore.	G. E. Truax.	607,785	July 19	2293	484	84	480
Car. Oyster or fish.	A. E. Stilwell.	609,373	Aug. 16	2242	530	84	1121
Car pilot. Railway.	E. P. McKaig.	602,226	Apr. 12	1111	244	83	224
Car propulsion.	W. M. Farrar.	614,095	Nov. 15	1523	348 349	85	951
Car. Railway.	W. L. Austin.	605,305	June 7	474	106 107	83	1442
Car. Railway.	E. E. Pratt.	615,575	Dec. 6	668	154	85	1543
Car release-rigging. Railway.	H. C. Buhoup.	604,718	May 31	2758	630 631	83	1219
Car-replacer.	C. E. Dailey.	608,324	Aug. 2	287	63	84	713
Car-replacer.	T. Maroney.	607,256	July 12	1171	250 251	84	241
Car-replacer.	H. Miller.	611,072	Sept. 20	1662	381	84	1796
Car-replacer.	L. W. Olmstead.	598,157	Feb. 1	142	33	82	629
Car-roof.	W. D. Drake.	612,024	Oct. 11	772	191	85	161
Car-roof.	L. C. Marshall.	606,996	July 5	640	139	84	127
Car-roofs. Means for draining.	C. A. Mann.	600,881	Mar. 22	2266	517	82	1703
Car running-gear. Railway.	A. J. Lodriguss.	601,896	Apr. 5	528	109	83	100
Car safeguard. Express.	J. Lamborg.	597,821	Jan. 25	2358	551	82	508
Car safety-bridge.	H. H. Burkhardt.	608,751	Aug. 9	1040	239	84	879
Car safety-fender. Street.	W. B. Heywood.	598,067	Jan. 25	2774	646	82	589
Car safety-fender. Street.	W. B. Heywood.	600,224	Mar. 8	1127	257	82	1455
Car safety-guard. Railway.	A. M. Phelps.	599,630	Feb. 22	2758	642	82	1186
Car sand-box. Railway.	H. M. Stiles.	606,172	June 21	2102	483	83	1787
Car sanding apparatus. Railway.	F. Rowe.	609,299	Aug. 16	2125	504	84	1097
Car sanding device. Street.	F. O. Furber and W. A. Mitchell.	609,506	Aug. 23	2500	585	84	1188
Car-seat.	J. S. Johnston.	605,059	May 31	3312	761	83	1326
Car-seat.	W. M. Norcross.	610,719	Sept. 13	1037	240	84	1659
Car-seat.	H. Tesseyman and J. Kirby, Jr.	610,289	Sept. 6	287	62	84	1497
Car-seat.	S. Udstad.	596,925	Jan. 4	813	193	82	159
Car-seat foot-rest.	W. M. Norcross.	605,124	June 7	96	25	83	1370
Car-seat. Step-over.	C. K. Pickles.	607,414	July 12	1459	309	84	298
Car-seat. Step-over.	C. K. Pickles.	613,422	Nov. 1	387	89	85	689
Car-seat. Step-over.	C. K. Pickles.	613,423	Nov. 1	390	90	85	690
Car-seat. Step-over.	C. K. Pickles.	615,224	Nov. 29	3665	840	85	1386
Car-seat. Step-over.	C. K. Pickles.	615,225	Nov. 29	3667	841	85	1387
Car-seat. Step-over.	C. K. Pickles.	615,226	Nov. 29	3669	841	85	1387
Car-seat. Step-over.	C. K. Pickles.	615,227	Nov. 29	3671	841	85	1388
Car sectional door. Grain.	G. W. Peterson.	597,087	Jan. 11	1115	262	82	234
Car side bearing. Railway.	C. C. Borton.	604,186	May 17	1767	398	83	994
Car side bearing. Railway.	C. F. Huntoon.	606,345	June 28	2445	567	83	1874
Car side bearing. Railway.	A. Richmond.	613,527	Nov. 1	563	127	85	723
Car. Side-entrance convertible street-	L. T. Pyott.	597,512	Jan. 18	1831	423 424	82	390
Car-signal.	W. O. Abbott.	607,561	July 19	1904	393 394	84	406
Car-signal.	E. W. Logan.	598,308	Feb. 1	422	100	82	682
Car-signal.	T. E. Sheerin.	609,914	Aug. 30	3216	753	84	1340
Car signal and indicator.	A. Travaglini and E. Teti.	597,490	Jan. 18	1798	417	82	383
Car signaling device. Railway.	F. W. Diehl.	602,434	Apr. 19	1459	331	83	307
Car. Sleeping.	L. B. Bassett and E. E. Castle.	606,910	July 5	491	107	84	98
Car spit-box.	E. Margolies.	600,923	Mar. 22	2335	531	82	1716
Car. Steam-propelled.	A. J. Pitkin.	603,284	May 3	69	17, 18	83	614
Car steering-handle. Motor.	M. H. Smith.	610,871	Sept. 13	1314	302	84	1715
Car-step. Extension.	W. J. Griffiths, Jr.	616,230	Dec. 20	1889	436	85	1812
Car-step. Extension.	T. Maxon.	606,932	July 5	521	114	84	103
Car-step. Extension.	T. Maxon.	612,429	Oct. 18	1480	357	85	309
Car-step. Folding.	F. M. Bickelberger.	609,136	Aug. 16	1814	431	84	1036
Car-step. Folding.	T. Kendrick.	608,335	Aug. 2	309	68	84	717
Car-step lifter.	T. Millen.	608,617	Aug. 9	799	184	84	832
Car-step lifter.	T. Millen.	608,618	Aug. 9	800	185	84	833
Car-stopper. Automatic.	I. J. Neracher.	599,471	Feb. 22	2453	577	82	1124



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-strap.....	F. W. Burke.....	605,075	June 7	14	4	83	1356
Car. Street-railway.....	R. T. Barton.....	598,842	Feb. 8	1305	316	82	867
Car. Street-railway.....	C. E. Garey and E. T. Landon.....	601,000	Mar. 22	2463	561 562	82	1740
Car switch-shifting mechanism. Electric.....	J. P. W. Roach.....	614,133	Nov. 15	1596	366	85	965
Car switching apparatus. Street.....	J. G. Grosheim and G. L. Seaman.....	598,705	Feb. 8	1100	264	82	828
Car-switching apparatus. Street.....	J. G. Grosheim and G. L. Seaman.....	611,449	Sept. 27	2405	553	84	1955
Car-transom.....	G. A. Akerlind and J. T. Carroll.....	609,323	Aug. 16	2168	512	84	1107
Car. Transportation.....	E. A. Trapp.....	615,373	Dec. 6	287	66, 67	85	1469
Car trip mechanism.....	J. R. White.....	611,852	Oct. 4	458	110	85	92
Car. Trolley.....	J. D. Hull.....	597,467	Jan. 18	1758	407	82	375
Car-unloading apparatus.....	T. Long.....	603,336	May 3	163	37, 38	83	633
Car-ventilator.....	T. C. Bright.....	596,650	Jan. 4	338	73, 74	82	67
Car-ventilator.....	J. M. Daly. (Reissue).....	11,655	Mar. 15	2215	505	82	1681
Car-ventilator.....	R. S. Howland.....	615,275	Dec. 6	102	27	85	1433
Car-ventilator.....	J. Norling and C. E. Johnson.....	603,115	Apr. 26	2645	601	83	547
Car-ventilator.....	E. S. Perry.....	597,019	Jan. 11	982	232	82	207
Car-ventilator and air-supplying device.....	J. C. Fleming.....	612,643	Oct. 18	1871	442 443	85	382
Car ventilator and dust-excluder. Railway-passenger- ger.....	G. W. Garrett.....	601,054	Mar. 22	2552	582	82	1757
Car. Vestibule.....	C. E. Foster.....	596,866	Jan. 4	721	169	82	140
Car. Vestibule.....	T. L. McKeen.....	601,899	Apr. 5	533	110	83	101
Car-wheel.....	F. E. Canda.....	605,391	June 7	637	142 143	83	1474
Car-wheel.....	A. von Dutczynski.....	597,270	Jan. 11	1399	328	82	288
Car-wheel.....	J. Fairfield.....	605,542	June 14	870	204	83	1541
Car-wheel.....	J. W. Fuller.....	597,540	Jan. 18	1870	433	82	398
Car-wheel.....	J. H. McEwen.....	605,896	June 21	1572	361	83	1690
Car-wheel.....	W. W. Rosensteel.....	603,600	May 3	646	144	83	727
Car-wheel.....	C. P. Smith.....	616,024	Dec. 13	1467	343	85	1712
Car-wheel.....	W. T. Snyder.....	610,501	Sept. 6	680	152	84	1570
Car wheel and axle.....	J. A. Graham and J. W. Kile.....	601,648	Apr. 5	44	8	83	9
Car wheel and axle gage.....	A. H. Smith and W. A. Brainard.....	606,772	July 5	265	55	84	53
Car-wheel and journal gage.....	M. B. Evry.....	614,093	Nov. 15	1520	348	85	951
Car wheel and track brake. Railway.....	R. Shultz.....	615,917	Dec. 13	1259	294 295	85	1670
Car-wheel-grinding machine.....	A. Magee.....	601,269	Mar. 29	2950	667 668	82	1861
Car-wheel. Self lubricating.....	W. T. Snyder.....	603,291	May 3	79	20	83	617
Car-wheel. Self-lubricating.....	W. T. Snyder.....	603,292	May 3	80	21	83	617
Car-wheel. Self-oiling.....	S. Watt.....	612,689	Oct. 18	1947	461	85	397
Car-wheels. Abrading shoe for truing up.....	W. M. Hoffman.....	605,056	May 31	3310	760	83	1326
Cars. Adjustable rack for railway.....	M. Butler.....	608,437	Aug. 2	483	109 110	84	751
Car-wheels, &c. Apparatus for removing.....	J. Bryan.....	613,851	Nov. 8	1116	254 255	85	849
Car wheels. Lubricating.....	J. V. Hawkey.....	614,808	Nov. 22	2829	651	85	1209
Car-wheels, rolls, &c. Treating chilled cast-iron.....	W. W. Lobdell.....	615,075	Nov. 29	3365	.....	85	1328
Car-wheels upon grades. Means for preventing slipping of.....	F. H. Wheelock.....	601,296	Mar. 29	2999	677	82	1871
Car-window.....	J. Halin.....	598,925	Feb. 15	1457	348	82	912
Cars. Bag-catcher for postal.....	T. E. Hendricks.....	597,061	Jan. 11	1059	249	82	223
Cars. Ball-bearing center-plate for.....	C. B. Royal.....	613,913	Nov. 8	1218	278	85	869
Cars. Combined spring-seat, bolster-guide, and sand-board for railway.....	T. M. Gallagher.....	598,417	Feb. 1	609	149	82	718
Cars. Combined track and wheel brake for street.....	F. W. Wohlenberg.....	603,716	May 10	856	190	83	783
Cars. Deliverer of packages from moving.....	F. M. Hatch.....	614,863	Nov. 29	2947	677	85	1246
Cars. Electric-lighting apparatus for.....	E. Wilhelm and W. F. Richards.....	604,101	May 17	1611	361 362	83	963
Cars. Electric-lighting apparatus for railway.....	W. F. Richards.....	604,083	May 17	1574	352	83	955
Cars. Electric-lighting apparatus for railway.....	W. F. Richards.....	604,084	May 17	1576	352 353	83	956
Cars. Electric-lighting apparatus for railway.....	W. F. Richards.....	604,085	May 17	1578	353	83	956
Cars. Electric-lighting apparatus for railway.....	W. F. Richards.....	615,904	Dec. 13	1227	287 288	85	1665
Cars. Electric-lighting apparatus for railway.....	W. F. Richards.....	615,905	Dec. 13	1229	288	85	1665
Cars. Electric-lighting system for railway.....	W. F. Richards.....	604,081	May 17	1570	351	83	955
Cars. Electric-lighting system for railway.....	W. F. Richards.....	604,082	May 17	1572	351	83	955
Cars. Flexible uncoupling means for railway.....	G. Groobey.....	612,588	Oct. 18	1753	415	85	359
Cars. Guard-rail for open tramway.....	J. G. McLaughlin.....	610,688	Sept. 13	981	228	84	1647
Cars. Lock for dog attachments of logging.....	E. R. Wolfe.....	601,419	Mar. 29	3204	723	82	1909
Cars. Means for arresting motion of electric.....	W. C. Anderson.....	600,252	Mar. 8	1179	267	82	1464
Cars. Means for carrying velocipedes in railway.....	F. H. Skrine.....	603,777	May 10	961	215	83	803
Cars. Means for driving railway, tramway, or automobile.....	G. Dupont and M. Johannet.....	614,709	Nov. 22	2659	606	85	1175
Cars. Means for preventing derailment of railway.....	M. E. Beasley.....	604,513	May 24	2380	542	83	1128
Cars. Mechanism for operating doors of hopper-bottom.....	J. Simonton.....	616,811	Dec. 27	2969	692	85	2045
Cars. Motor-mounting for electric.....	S. H. Short.....	611,461	Sept. 27	2429	557	84	1960
Cars or coaches. Dust-conveyer for railway passenger.....	A. H. Le Van.....	604,867	May 31	3001	689	83	1266
Cars. Pneumatic controlling mechanism for electric-railway.....	S. H. Short.....	599,807	Mar. 1	244	55, 56	82	1259
Cars. Pneumatic controlling system for electric.....	S. H. Short.....	600,896	Mar. 22	2290	522	82	1707
Cars. Pneumatic motor for electric appliances for.....	C. A. Evans.....	616,301	Dec. 20	2022	471	85	1840
Cars, &c. Safety guard and truck for.....	A. M. Phelps.....	599,629	Feb. 22	2755	641 642	82	1185
Cars. Seat-recording device for passenger.....	N. M. Powell.....	610,972	Sept. 20	1487	339	84	1763
Cars. Steam-distributing system for heating railway.....	J. R. Deisher.....	616,827	Dec. 27	2993	697 698	85	2050
Cars. Steam-pipe coupling for railway.....	C. E. Jensen.....	602,821	Apr. 26	2148	487	83	452
Carbids and metals or alloys. Simultaneously producing.....	H. Aschermann.....	612,694	Oct. 18	1953	.....	85	398
Carbids. Preserving.....	I. L. Roberts.....	601,064	Mar. 22	2567	585	82	1760



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Carbon-assorting machine .....	H. S. Hart .....	597,646	Jan. 18	2042	477 478	82	432
Carbon transmitter .....	G. W. Goss .....	605,575	June 14	935	218	83	1553
Carbons. Manufacture of .....	C. L. Saunders .....	598,646	Feb. 8	991	240	82	808
Carbonating and bottling malt liquids. Apparatus for .....	C. Saw .....	601,735	Apr. 5	219	43	83	42
Carbonating and dispensing apparatus. Liquid .....	P. E. Malmstrom .....	603,404	May 3	275	61, 62	83	652
Carbonating apparatus .....	C. L. Bastian .....	609,867	Aug. 30	3131	731 732	84	1324
Carbonating apparatus .....	E. E. Murphy .....	609,040	Aug. 16	1630	389	84	1003
Carbonating apparatus .....	E. E. Murphy .....	609,238	Aug. 16	2011	477	84	1075
Carbonating apparatus. Automatic .....	E. Koenig and M. L. Erlanger .....	610,062	Aug. 30	3484	808	84	1393
Carbonating apparatus. Liquid .....	O. W. Ackerman .....	603,031	Apr. 26	2497	566	83	518
Carbonating apparatus. Liquid .....	C. A. Gaines .....	602,938	Apr. 26	2349	536	83	491
Carborundum and manufacture thereof. Article of .....	E. G. Acheson .....	615,648	Dec. 6	796	85	1570	
Carboxylated products of triphenylmethane. Making .....	H. R. Vidal .....	603,300	May 3	93	83	619	
Carboy-protector .....	F. O. Clapp .....	597,760	Jan. 25	2244	522	82	486
Carbureter .....	H. T. Bradley .....	611,674	Oct. 4	145	36	85	31
Carbureter .....	H. Ford .....	610,040	Aug. 30	3454	800	84	1387
Carbureter .....	J. C. and H. J. Fuhr .....	604,932	May 31	3108	714 715	83	1287
Carbureter .....	F. L. Martenette .....	613,167	Oct. 25	2765	652	85	577
Carbureter .....	J. A. McGowan .....	606,998	July 5	643	139	84	128
Carbureter .....	O. Owens .....	615,572	Dec. 6	662	152	85	1541
Carbureter .....	C. L. Parker .....	609,831	Aug. 30	3081	719	84	1314
Carbureter .....	E. D. Parrott .....	615,100	Nov. 29	3407	781	85	1335
Carbureter .....	W. E. Pinckney .....	603,431	May 3	323	73	83	662
Carbureter .....	F. A. Smith .....	607,888	July 26	2527	536	84	542
Carbureter .....	F. A. Smith .....	607,889	July 26	2532	537	84	543
Carbureter .....	R. G. Speer .....	610,159	Aug. 30	3632	844	84	1425
Carbureter .....	J. R. Stephenson .....	608,531	Aug. 2	638	144	84	781
Carbureter .....	A. I. Van Vriesland .....	604,948	May 31	3129	719 720	83	1291
Carbureter spraying device .....	G. H. Weeks .....	603,933	May 10	1254	285	83	860
Carbureting apparatus. Air .....	S. A. Miles .....	601,061	Mar. 22	2562	585	82	1759
Cardboard cutting and indenting device .....	R. Sanson, Jr. .....	613,397	Nov. 1	336	77	85	680
Cardboard-scoring machine .....	C. W. Hobbs .....	604,530	May 24	2406	548	83	1132
Card-box .....	G. W. Weaver .....	599,484	Feb. 22	2477	582	82	1129
Card-clothing. Device for bending teeth in .....	E. Whittaker .....	606,829	July 5	365	77	84	73
Card-cutting machine .....	H. P. Feister .....	610,526	Sept. 13	719	163	84	1593
Card-grinding apparatus .....	J. and F. Rothwell .....	597,365	Jan. 11	1566	365	82	322
Card-mount .....	A. M. Odgers .....	605,007	May 31	3225	742	83	1310
Card. Playing .....	H. L. Griffis .....	603,186	Apr. 26	2761	628	83	569
Card-points. Process of and apparatus for hardening .....	G. Bovensiepen .....	610,022	Aug. 30	3425	793	84	1381
Card-punching machine .....	W. Cochran .....	612,640	Oct. 18	1863	441 442	85	381
Card shuffler. Automatic playing .....	J. Booth .....	609,729	Aug. 23	2899	678	84	1265
Card-shuffling apparatus .....	J. Booth .....	609,730	Aug. 23	2900	678	84	1265
Card-teeth-grinding apparatus .....	E. Schweinefleisch .....	598,015	Jan. 25	2688	627 628	82	571
Cards for use in jacquard-machines. Apparatus for preparing .....	R. G. McCrum .....	608,473	Aug. 2	544	122	84	763
Cards from blanks. Machine for stamping .....	L. Otto .....	609,119	Aug. 16	1787	425 426	84	1030
Cards. Machine for operating on .....	D. E. Hunter .....	612,609	Oct. 18	1807	429 430	85	371
Carding-engine .....	E. V. Bates .....	612,303	Oct. 11	1266	306	85	255
Carding-engine .....	A. Haigh and A. Borios .....	610,138	Aug. 30	3602	836	84	1418
Carding-engine .....	G. Martin .....	600,882	Mar. 22	2267	517	82	1703
Carding-engine .....	J. Williams and P. H. Allsopp .....	614,155	Nov. 15	1630	374	85	971
Carding-engine doffer-driving mechanism .....	W. Hopkinson and R. Tyack .....	605,057	May 31	3311	760	83	1326
Carding-engine flats. Apparatus for stripping .....	W. Senior .....	609,911	Aug. 30	3212	752	84	1359
Carding-engine flats. Apparatus for stripping .....	W. Senior .....	609,912	Aug. 30	3213	752	84	1340
Carding-engine flats. Apparatus for stripping .....	J. Williams .....	609,859	Aug. 30	3117	728	84	1321
Carding-engine flats. Apparatus for stripping .....	J. Williams .....	609,860	Aug. 30	3118	729	84	1322
Carding-machine .....	M. H. Coffin .....	597,314	Jan. 11	1465	314	82	301
Carding-machine .....	C. E. Smith .....	599,067	Feb. 15	1702	403	82	961
Carding-machine attachment .....	J. P. Megonigal .....	596,605	Jan. 4	262	58	82	52
Carding-machine clearer-roll .....	E. E. Orrell .....	603,044	Apr. 26	2514	570	83	522
Carding-machine feeding-machine .....	T. R. Marsden .....	612,566	Oct. 18	1718	407 408	85	354
Carding-machine feeding mechanism .....	T. R. Marsden .....	610,655	Sept. 13	932	216	84	1637
Carding-machine flat-grinding mechanism .....	J. Eatough .....	615,016	Nov. 29	3239	744	85	1305
Cargo-trimmer .....	J. C. Corwin .....	601,496	Mar. 29	3335	755	82	1935
Carline .....	H. W. Gays .....	607,846	July 26	2446	519 520	84	527
Carousel .....	F. C. Prescott .....	603,432	May 3	326	73	83	662
Carpenter's tool .....	B. Fuller .....	602,130	Apr. 12	932	204	83	188
Carpentry or joinery .....	C. C. Sexton .....	598,749	Feb. 8	1166	280	82	840
Carpet and weather strip .....	T. A. Long .....	610,864	Sept. 13	1299	299	84	1712
Carpet-beater .....	C. M. Comstock .....	613,120	Oct. 25	2694	637	85	563
Carpet-cleaner .....	F. H. Good .....	600,525	Mar. 15	1668	380	82	1577
Carpet-cleaner .....	A. F. Gue .....	601,711	Apr. 5	176	34	83	35
Carpet fabric. Cut-pile .....	H. Hardwick .....	604,320	May 17	2012	451	83	1040
Carpet fabric. Two-ply ingrain .....	H. Hardwick .....	610,742	Sept. 13	1073	246	84	1665
Carpet-fastener .....	E. A. Coll .....	600,514	Mar. 15	1646	375	82	1573
Carpet-fastener .....	J. H. James .....	604,757	May 31	2819	644	83	1230
Carpet-fastener .....	W. Sonneborn .....	597,514	Jan. 18	1835	424	82	391
Carpet-fastener .....	E. E. Webb .....	611,158	Sept. 20	1833	423	84	1829
Carpet-fastener .....	A. B. Wilcox .....	600,845	Mar. 15	2200	503	82	1678
Carpet fastener. Stair .....	H. L. Campbell .....	615,527	Dec. 6	582	133	85	1525
Carpet fastener. Stair .....	J. S. Jardine .....	604,585	May 24	2511	570	83	1153
Carpet fastener. Stair .....	G. F. Murdock .....	602,348	Apr. 12	1310	292	83	264
Carpet or rug fastener .....	G. B. Shepherd .....	605,978	June 21	1737	399	83	1720



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Carpet-stretcher .....	C. J. Wagner .....	611,344	Sept. 27	2195	507	84	1917
Carpet-stretcher .....	J. D. Wilcher .....	600,129	Mar. 1	973	216	82	1408
Carpet-stretcher and tacker .....	C. M. Jansky .....	604,987	May 31	3188	734	83	1303
Carpet-sweeper .....	E. B. Browne .....	601,628	Apr. 5	8	2	83	4
Carpet-sweeper .....	W. J. Drew .....	600,413	Mar. 8	1436	328	82	1514
Carpet-sweeper .....	C. J. Harvey .....	609,145	Aug. 16	1832	434	84	1039
Carpet-sweeper .....	B. Haskell .....	610,603	Sept. 13	854	196	84	1621
Carpet-sweeper .....	F. P. Keesee .....	598,602	Feb. 8	914	219 220	82	794
Carpet-sweeper .....	C. King .....	616,870	Dec. 27	3130	725	85	2077
Carpet-sweeper .....	A. B. Linn .....	599,671	Feb. 22	2833	658	82	1200
Carpet-sweeper .....	J. Parbel and J. A. Staven .....	604,783	May 31	2858	653	83	1238
Carriage and cradle. Combined baby .....	L. Payette .....	615,892	Dec. 13	1209	283	85	1661
Carriage. Baby .....	G. Eisenenger .....	596,697	Jan. 4	432	98	82	85
Carriage. Baby .....	J. L. Pryor .....	611,937	Oct. 4	593	143	85	117
Carriage. Baby .....	J. C. Tague .....	598,210	Feb. 1	250	55	82	649
Carriage. Baby .....	H. P. de Von .....	609,520	Aug. 23	2522	590	84	1192
Carriage brake. Child's .....	F. E. Caldwell .....	603,005	Apr. 26	2456	559	83	511
Carriage-coupling .....	I. Osgood .....	607,948	July 26	2633	559	84	562
Carriage-cover .....	O. B. Fobes .....	610,647	Sept. 13	921	211	84	1634
Carriage-curtain catch .....	H. Young .....	610,374	Sept. 6	450	98	84	1525
Carriage curtain-light frame .....	J. A. Edwards .....	610,389	Sept. 6	480	105	84	1531
Carriage fan attachment. Baby .....	A. Stölting .....	609,846	Aug. 30	3101	723	84	1318
Carriage. Folding .....	A. Stern and N. Lefkowitz .....	598,964	Feb. 15	1532	364 365	82	927
Carriage-gear .....	W. J. Brown .....	615,797	Dec. 13	1059	249	85	1632
Carriage-gear .....	A. W. Knight .....	613,803	Nov. 8	1044	237	85	836
Carriage. Motor .....	H. R. Bird .....	605,243	June 7	341	78, 79	83	1415
Carriage. Motor .....	J. Pender .....	601,274	Mar. 29	2959	669 670	82	1863
Carriage. Motor .....	W. E. Twichell .....	610,503	Sept. 6	682	153	84	1570
Carriage. Ornamental baby .....	J. W. Young .....	614,685	Nov. 22	2618	595	85	1167
Carriage rocker attachment. Baby .....	G. L. Morgan .....	606,569	June 28	2853	658	83	1955
Carriage safety device. Electric .....	R. T. D. Brougham and W. C. Bersey .....	604,874	May 31	3013	691	83	1268
Carriage-seat .....	S. R. Bailey .....	599,823	Mar. 1	286	64	82	1267
Carriage. Self-propelling .....	V. E. Prétot .....	610,460	Sept. 6	596	133 134	84	1553
Carriage spring .....	S. R. Bailey .....	610,788	Sept. 13	1171	270	84	1685
Carriage spring .....	W. Schubert .....	607,886	July 26	2524	535	84	541
Carriage step .....	W. F. Hopkins .....	605,428	June 7	707	157	83	1489
Carriage top-prop joint .....	H. D. Potter .....	600,089	Mar. 1	849	195	82	1380
Carriage-washer .....	E. J. Green and S. C. Brown .....	604,898	May 31	3047	699	83	1275
Carriage-wheel. Elastic .....	N. Rosenblatt and S. Ahscharumoff .....	603,154	Apr. 26	2710	616	83	560
Carriage-wrench .....	E. E. Hilliker .....	607,436	July 19	1505	320	84	324
Carriage-wrench .....	W. D. Howe .....	601,323	Mar. 29	3048	687	82	1879
Carriages or other vehicles. Apparatus for washing .....	H. Nicholsburg .....	601,003	Mar. 22	2470	562 563	82	1741
Carriages. Suspending batteries on .....	R. T. D. Brougham and W. C. Bersey .....	602,302	Apr. 12	1242	273	83	249
Carrier:							
See Bicycle-carrier. Elevated carrier.							
Bicycle luggage-carrier. Flower-carrier.							
Bicycle luggage-carrier. Game-carrier.							
Bicycle package-carrier. Hay-carrier.							
Bicycle package-carrier. Luggage-carrier.							
Bundle-carrier. Match-splint carrier.							
Cable-carrier. Package-carrier.							
Cartridge-carrier. Parcel-carrier.							
Change-carrier. Ticket-carrier.							
Cuspidor-carrier.							
Carrier or holder .....	J. Quigley .....	610,870	Sept. 13	1313	302	84	1715
Carrying apparatus .....	J. Anderson .....	599,137	Feb. 15	1820	432	82	982
Carrying apparatus .....	J. Anderson .....	606,618	June 28	2935	680	83	1970
Carrying-frame .....	H. E. H. Borgström .....	605,992	June 21	1763	404	83	1724
Carrying-frame .....	H. E. H. Borgström .....	605,993	June 21	1765	405	83	1724
Cart-body .....	A. B. Black .....	599,826	Mar. 1	290	65	82	1267
Cart. Dump .....	A. Maxwell .....	602,225	Apr. 12	1110	244	83	223
Cart. Dumping .....	J. Pickrell .....	598,390	Feb. 1	543	133	82	705
Cart. Dumping .....	J. W. Taylor .....	605,029	May 31	3264	749 750	83	1317
Cart. Folding .....	H. F. L. Brookmeyer .....	611,675	Oct. 4	146	36	85	31
Cart for military or other purposes .....	H. A. D. Maclean .....	599,969	Mar. 1	541	124	82	1315
Cart for transporting fodder, &c .....	C. S. Wilson .....	611,542	Sept. 27	2572	593	84	1987
Cart. Hand .....	G. A. Dahlberg .....	601,827	Apr. 5	385	81	83	72
Cart. Refreshment .....	C. S. Arnold .....	601,928	Apr. 5	580	120 121	83	110
Cart. Refuse .....	C. Rosenfeld .....	613,779	Nov. 8	993	227	85	826
Cart. Refuse .....	C. Rosenfeld .....	613,780	Nov. 8	994	227	85	826
Carton .....	F. P. Tucker .....	601,884	Apr. 5	507	104	83	95
Cartridge .....	J. Muthherr .....	616,721	Dec. 27	2830	655	85	2016
Cartridge-belt .....	L. Sanders .....	616,361	Dec. 20	2134	497	85	1862
Cartridge. Blank .....	L. M. Fuller .....	604,824	May 31	2919	668	83	1250
Cartridge capper and decapper. Adjustable .....	J. L. Barnes .....	600,706	Mar. 15	1976	450	82	1634
Cartridge. Carbid .....	G. de Roussy de Sales .....	603,971	May 10	1311	301	83	871
Cartridge-carrier .....	T. E. Jackson .....	611,172	Sept. 20	1857	428	84	1834
Cartridge-case and making same .....	F. W. Oliver .....	601,902	Apr. 5	538	111	83	101
Cartridge-holding attachment for belts .....	R. C. Langdon .....	611,692	Oct. 4	177	42	85	37
Cartridge loading and crimping machine .....	F. Raymond .....	602,143	Apr. 12	963	210 211	83	194
Cartridge-loading implement .....	S. B. Kitchel .....	615,282	Dec. 6	115	31	85	1436
Cartridge-loading machine .....	H. P. Hall .....	601,138	Mar. 22	2678	613 614	82	1782
Cartridge-loading machine .....	H. M. Handshy .....	600,613	Mar. 15	1809	415	82	1603
Cartridge-machine wad-placing mechanism .....	G. M. Peters .....	605,258	June 7	383	87, 88	83	1424
Cartridge. Metallic .....	P. Mauser .....	607,868	July 26	2495	529	84	536



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol	Page
Cartridge-packet.....	W. H. Honiss.....	606,058	June 21	1892	436	83	1747
Cartridge-packet.....	T. C. Johnson.....	600,366	Mar. 8	1361	311	82	1498
Cartridge-packet.....	T. C. Johnson and H. Brewer.....	600,367	Mar. 8	1364	312	82	1499
Cartridge-packet.....	E. G. Parkhurst.....	606,021	June 21	1822	420 421	83	1734
Cartridge-shell.....	C. E. Overbaugh.....	610,660	Sept. 13	939	218	84	1639
Cartridge-shell.....	J. K. Ross.....	602,875	Apr. 26	2222	503	83	467
Cartridge-shell heads. Machine for assembling.....	W. B. Place.....	605,340	June 7	537	120 121	83	1455
Cartridge-shell heads. Machine for priming or cap- ping.....	W. B. Place.....	605,339	June 7	533	119 120	83	1454
Cartridge-shell-heading machine.....	W. B. Place.....	605,338	June 7	527	118	83	1453
Cartridge. Smokeless-powder.....	W. Ulrich.....	614,635	Nov. 22	2527	575	85	1150
Cartridges or shells. Electrically-heated charge for.....	L. W. Bates.....	605,842	June 21	1467	336 337	83	1669
Carving-machine.....	W. Birks.....	605,773	June 14	1300	300	83	1620
Carving-machine.....	H. Marles.....	616,002	Dec. 13	1429	333 334 335	85	1704
Carving-machine.....	A. Wache.....	602,887	Apr. 26	2243	509 510	83	471
Carvings-clamp.....	C. J. Gartner.....	609,539	Aug. 23	2555	598	84	1198
Case: See Bicycle gear-case. Peanut-vending case. Bicycle tool-case. Pencil-case. Bolt-case. Printer's case. Bottle packing case. Refrigerating shipping- Broom-case. case. Cell-case. Sample-case. Dispensing-case. Shelf block-case. Display-case. Show case. Dressing-case. Silverware-case. Egg-case. Spectacle or eyeglass Egg or packing case. case. Exhibiting-case. String-case. Eyeglass-case. Surgical case. File-case. Surgical-instrument Filing-case. case. Folding case. Telescopic case. Gear-case. Ticket-case. Match-case. Toilet-case. Medicine-case. Type-case. Needle-case. Velocipede gear-case. Packing-case.							
Case and cigar-tip cutter. Combined.....	W. A. Holgate.....	599,707	Mar. 1	57	13	82	1227
Casing-machine.....	A. Straka and P. H. Schmidt.....	601,534	Mar. 29	3398	770 771	82	1949
Casing or tube elevator.....	S. E. Leech and G. Aslett.....	612,356	Oct. 11	1356	328	85	272
Cash box or safe.....	E. Caron.....	616,767	Dec. 27	2894	671	85	2029
Cash-carrier apparatus.....	D. Johnson.....	611,322	Sept. 27	2157	498 499	84	1910
Cash-holder.....	M. R. Daley.....	608,654	Aug. 9	875	201 202	84	847
Cash indicator and recorder.....	W. W. and W. H. Wythe.....	606,324	June 28	2401	556 557	83	1866
Cash or bundle carriers. Propelling mechanism for.....	W. Wittlinger.....	600,628	Mar. 15	18C3	420	82	1607
Cash payments. Apparatus for registering and controlling.....	H. Pottin.....	614,977	Nov. 29	3171	728 729 730	85	1293
Cash-receiver.....	M. Anderson.....	605,561	June 14	910	213	83	1549
Cash-recorder.....	H. Pottin.....	614,978	Nov. 29	3174	730 731	85	1293
Cash-register.....	W. Bentley.....	609,384	Aug. 16	2259	534 535	84	1124
Cash-register.....	A. I. Blanchard.....	610,379	Sept. 6	460	100 101 102	84	1527
Cash-register.....	W. F. Bockhoff.....	616,866	Dec. 27	3113	722 723 724	85	2075
Cash-register.....	H. Bradt and J. Kindleberger.....	601,423	Mar. 29	3211	724 725	82	1910
Cash-register.....	T. Carney.....	606,188	June 28	2132	490	83	1812
Cash-register.....	J. P. Cleal.....	612,543	Oct. 18	1664	396	85	344
Cash-register.....	C. Forth.....	599,418	Feb. 22	2340	552 553	82	1104
Cash-register.....	A. Franke.....	603,842	May 10	1092	244 245	83	828
Cash-register.....	E. X. Genoud.....	608,116	July 26	2928	627	84	623
Cash-register.....	D. A. Green.....	597,973	Jan. 25	2609	610 611	82	557
Cash-register.....	A. C. Hansen.....	597,976	Jan. 25	2623	613	82	559
Cash-register.....	J. G. Hoffman and W. B. Norton.....	608,551	Aug. 2	673	153 154	84	789
Cash-register.....	J. L. Kizer.....	598,876	Feb. 8	1364	329	82	879
Cash-register.....	A. Latham.....	597,504	Jan. 18	1817	421	82	387
Cash-register.....	A. Latham.....	597,505	Jan. 18	1820	421	82	388
Cash-register.....	J. Mallmann.....	598,266	Feb. 1	344	79, 80	82	666
Cash-register.....	J. H. McCormick.....	610,492	Sept. 6	663	148 149	84	1566
Cash-register.....	J. H. McCormick.....	610,945	Sept. 20	1436	330	84	1754
Cash-register.....	F. C. Osborn.....	615,409	Dec. 6	366	87, 88	85	1483
Cash-register.....	W. P. Parsons.....	601,164	Mar. 22	2721	626 627	82	1790
Cash-register.....	R. A. W. Rosander and J. R. Pear- son.....	601,681	Apr. 5	102	20	83	22
Cash-register.....	E. Runge.....	599,734	Mar. 1	94	22, 23	82	1234



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cash-register.....	O. B. Thompson.....	598,584	Feb. 8	882	211 212	82	788
Cash-register.....	H. G. Walter.....	599,817	Mar. 1	267	60 61 62	82	1263
Cash-register.....	A. S. Wells.....	596,927	Jan. 4	816	193 194	82	160
Cash register and indicator.....	L. T. Backus.....	596,973	Jan. 11	906	214	82	193
Cash register and indicator.....	L. S. Burridge.....	608,509	Aug. 2	600	134 135	84	774
Cash register and indicator.....	J. P. Cleal.....	600,136	Mar. 8	985	220	82	1426
Cash register and indicator.....	E. B. Hess and J. M. Stoughton.....	597,676	Jan. 18	2098	491 492	82	441
Cash register and indicator.....	J. H. McCormick.....	610,365	Sept. 6	428	93, 94 94	84	1521
Cash register and indicator.....	J. H. McCormick.....	610,366	Sept. 6	436	95 96	84	1523
Cash register and indicator.....	H. M. Neer.....	599,625	Feb. 22	2732	638 639 640	82	1179
Cash register and indicator printing attachment.....	E. B. Hess.....	616,708	Dec. 27	2797	648 649	85	2008
Cash register and recorder.....	L. I. Darby.....	600,141	Mar. 8	995	222 223	82	1429
Cash register and recorder.....	B. F. Seibert.....	606,768	July 5	259	54	84	52
Cash-register. Autograph.....	J. A. Hoff.....	608,374	Aug. 2	365	80	84	728
Cash-register. Autograph.....	J. A. Hoff.....	615,020	Nov. 29	3249	746	85	1306
Cash-register. Autograph.....	J. A. Hoff.....	615,021	Nov. 29	3251	747	85	1307
Cash-register. Autograph.....	J. A. Hoff.....	615,022	Nov. 29	3253	747	85	1307
Cash-register. Autograph.....	J. A. Hoff.....	615,024	Nov. 29	3257	748	85	1308
Cash-register. Pocket.....	E. L. Gibson.....	599,174	Feb. 15	1881	445	82	992
Cash registering and stamping desk.....	H. Pottin.....	597,068	Jan. 11	1070	251 252 253 254	82	225
Cash-registering machine.....	C. H. Little.....	599,297	Feb. 15	2083	494	82	1031
Cashier-protector.....	G. B. Fry.....	602,741	Apr. 19	1992	451	83	407
Cask. Aluminium.....	W. R. Taylor.....	616,563	Dec. 27	2514	581 582	85	1955
Cask-headings. Machinery for making crozes for curved.....	J. Anthon.....	610,012	Aug. 30	3404	789	84	1377
Cask or barrel manufacturing machinery.....	R. Collen.....	606,516	June 28	2738	632 633	83	1933
Cask or barrel manufacturing machinery.....	R. Collen.....	607,219	July 12	1094	236	84	228
Cask or barrel trussing, chiming, and crozing apparatus.....	A. Dunbar.....	599,057	Feb. 15	1688	400	82	958
Cask-pitching apparatus.....	H. Rauch.....	599,476	Feb. 22	2460	579	82	1126
Cask-pitching apparatus.....	H. Rauch.....	616,632	Dec. 27	2632	609	85	1976
Cask-pitching apparatus.....	P. Sherrer.....	606,396	June 28	2537	588	83	1891
Casks. Device for sulfuring.....	P. J. Nicolini.....	600,926	Mar. 22	2341	532	82	1717
Casks or barrels from veneers. Manufacturing.....	C. Wittkowsky.....	601,993	Apr. 5	705	150	83	133
Casket.....	T. H. Linahan.....	606,466	June 28	2667	614	83	1918
Casket-handle.....	W. C. Heitzmann.....	613,925	Nov. 8	1240	281	85	873
Casket-handle.....	F. J. Hoefle.....	610,054	Aug. 30	3471	805	84	1390
Casket-lowering apparatus.....	W. H. Lester and G. E. Smart.....	609,586	Aug. 23	2639	617 618	84	1214
Casket-lowering device.....	M. T. Robb and A. J. Patterson.....	614,763	Nov. 22	2751	628	85	1,94
Casket. Metallic.....	C. H. Hiser and E. N. Lupfer.....	610,537	Sept. 13	738	168	84	1597
Casket-sling.....	I. Pierce.....	613,938	Nov. 8	1259	286	85	877
Casket-stand.....	G. Cronmiller.....	608,442	Aug. 2	490	111	84	753
Caskets, &c. Work-support for.....	R. B. Heuchan.....	602,220	Apr. 12	1102	242	83	222
Caster.....	L. B. Denton.....	600,977	Mar. 22	2421	553	82	1732
Caster.....	R. L. Dorsey.....	604,520	May 24	2391	543	83	1130
Caster.....	H. Flowers.....	614,096	Nov. 15	1526	349	85	952
Caster.....	S. Gluck.....	610,860	Sept. 13	1291	298	84	1711
Caster.....	J. P. Henrires.....	598,514	Feb. 8	761	183	82	764
Caster.....	J. A. Kennedy-McGregor.....	606,462	June 28	2661	612 613	83	1917
Caster.....	M. G. Merritt and F. L. Groff.....	606,354	June 28	2469	573	83	1878
Caster.....	D. Nickel.....	604,888	May 31	3031	696	83	1272
Caster. Ball.....	H. D. Adell.....	609,568	Aug. 23	2605	609	84	1207
Caster. Ball.....	G. L. Boveroux.....	601,726	Apr. 5	199	39	83	39
Caster. Ball.....	G. L. Boveroux.....	613,352	Nov. 1	242	54	85	664
Caster. Ball.....	A. H. Cobb.....	615,529	Dec. 6	584	133	85	1525
Caster. Ball.....	E. L. Dimmitt.....	616,411	Dec. 20	2222	518	85	1878
Caster. Ball.....	L. F. Eaton.....	608,111	July 26	2921	625	84	622
Caster. Ball.....	K. A. Klose.....	604,400	May 24	2158	485	83	1089
Caster. Ball.....	K. A. Klose.....	612,849	Oct. 25	2262	539	85	475
Caster. Ball.....	F. S. Rechtsteiner.....	600,172	Mar. 8	1049	236	82	1439
Caster. Ball.....	B. Wesselmann.....	607,720	July 19	2180	459 460	84	458
Caster. Furniture.....	F. J. Burrell.....	609,137	Aug. 16	1817	431	84	1036
Caster. Furniture.....	F. L. George.....	615,155	Nov. 29	3503	804	85	1354
Caster. Furniture.....	J. H. Godden and G. A. Seely.....	616,310	Dec. 20	2034	473	85	1843
Caster. Furniture.....	E. B. Slater.....	610,309	Sept. 6	322	69	84	1503
Casting apparatus.....	F. Hardy.....	609,671	Aug. 23	2809	655 656	84	1247
Casting apparatus.....	J. A. Potter.....	601,083	Mar. 22	2593	591	82	1765
Casting apparatus. Metal.....	W. E. May.....	596,897	Jan. 4	760	179 180	82	149
Casting apparatus. Metal.....	A. L. Walker.....	597,367	Jan. 11	1569	365 366	82	322
Casting ingots.....	R. A. McDonald.....	609,693	Aug. 23	2849	666	84	1255
Casting. Iron.....	S. Hufty and J. K. Caldwell.....	614,427	Nov. 15	2153	.....	85	1069
Casting ladle for steel and iron.....	T. Levoz.....	612,134	Oct. 11	964	233	85	198
Casting plant.....	D. Baker.....	602,614	Apr. 19	1761	402	83	363



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Invention.	Name	No.	Date.	Monthly volume		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Castings. Apparatus for making chilled iron	A. K. Barker	602,714	Apr. 19	1950	443	83	400
Castings. Machine for cleaning	W. C. McKeown	613,707	Nov. 8	860	198	85	801
Castings. Tool for facing	A. R. Jackson	611,254	Sept. 27	2017	465	84	1883
Castrating instrument	J. W. Latta	598,999	Feb. 15	1590	377	82	939
Catalytic material, &c.	W. H. Porter	612,614	Oct. 18	1820	466	85	374
Catamenial sack and womb-supporter	S. Beach	599,955	Mar. 1	521	118	82	1311
Cattle-guard	J. W. Brightwell	609,657	Aug. 23	2791	650	84	1243
Cattle-guard	M. Buchanan	601,120	Mar. 22	2652	605	82	1777
Cattle-guard	C. G. Cozine	610,430	Sept. 6	544	119	84	1543
Cattle-guard	W. C. Halley	602,075	Apr. 12	843	182	83	171
Cattle-guard	P. H. Hazel	608,426	Aug. 2	467	105	84	748
Cattle-guard	J. Hensey	597,977	Jan. 25	2627	613	82	560
Cattle-guard	R. H. Hodges	597,414	Jan. 18	1652	384	82	354
Cattle-tie	O. Gates	606,922	July 5	511	112	84	101
Ceiling or floor plate	L. H. Snyder	615,641	Dec. 6	786	182	85	1568
Ceiling or wall construction	J. S. Merritt	599,721	Mar. 1	76	17	82	1230
Ceiling or wall plate. Metallic	L. L. Sagendorph	611,797	Oct. 4	352	85	85	71
Ceiling or wall plate. Metallic	L. L. Sagendorph	611,798	Oct. 4	354	85	85	71
Ceiling-protector	H. M. Paul	598,435	Feb. 1	633	156	82	723
Ceilings. Construction of	L. Aronowitz	600,704	Mar. 15	1973	449	82	1634
Ceilings, floors, and walls. Manufacturing stone and iron	W. Mesch	600,334	Mar. 8	1310	300	82	1489
Cell. Automatic alarm	J. Rumpel	602,960	Apr. 26	2383	543	83	498
Cell-case	E. C. Bower	606,913	July 5	495	109	84	98
Cell-cases. Machine for making	H. I. Lahr	609,684	Aug. 23	2832	662	84	1252
Cell-door locking and indicating mechanism	J. H. and D. B. Van Dorn and J. T. Whitehouse.	612,758	Oct. 18	2070	490	85	420
Cell lock. Prison	G. F. Kindt	603,277	May 3	59	15	83	612
Cellar construction	C. Binder	596,734	Jan. 4	497	113	82	96
Celluloid, &c. Die for making frames from sheets of	H. E. Miller	610,630	Sept. 13	895	205	84	1629
Celluloid or similar open-seam coverings. Forming	J. E. Robinson	607,415	July 12	1460	309	84	298
Celluloid-press and vulcanizer	J. C. Dixon	608,512	Aug. 2	606	136	84	776
Cellulose and preparing same. Modification of	C. F. Cross, E. J. Bevan, and C. Beadle.	604,206	May 17	1801	---	83	1000
Cellulose for manufacturing spun fabrics. Apparatus for preparing	C. Kellner	603,333	May 3	158	36	83	632
Cellulose. Machine for making corn	D. L. Adelsperger	616,177	Dec. 20	1793	414	85	1793
Cellulose. Treatment of materials containing	E. Simonsen	607,091	July 12	864	---	84	186
Cement-kiln	A. Lavocat and E. Candlot.	614,730	Nov. 22	2699	615	85	1183
Cement. Making slag	C. J. Curtin	606,278	June 28	2317	---	83	1850
Cement. Manufacturing	H. Gallinowsky	605,637	June 14	1068	---	83	1576
Cement. Pan for heating and applying	E. L. Dithridge	613,362	Nov. 1	258	58	85	667
Cement tube and distributing-brush. Combined	A. L. Weis	602,204	Apr. 12	1074	235	83	216
Cementing apparatus	W. Gordon and P. A. Coupal.	614,857	Nov. 29	2935	674	85	1244
Centerboard	H. W. Fairbrass	599,097	Feb. 15	1743	413	82	969
Centerboards. Means for raising or lowering	J. B. Cowper	613,409	Nov. 1	359	82	85	684
Centering-gage	C. V. Bogart	610,021	Aug. 30	3423	793	84	1381
Centering-machine	J. H. Brewer	603,888	May 10	1180	267	83	846
Centering-tool	W. E. Severance	598,018	Jan. 25	2693	628	82	572
Centrifugal machine	S. A. Baker and M. F. Colby	603,395	May 3	261	58	83	650
Centrifugal machine	M. Davidsen	605,087	June 7	32	10	83	1359
Centrifugal machine	A. Diefenthaler and H. Röhl	596,576	Jan. 4	208	46	82	41
Centrifugal machine	F. Hugershoff	599,422	Feb. 22	2355	555	82	1107
Centrifugal machine	Z. Lubinski and R. Krajewski	604,832	May 31	2934	671	83	1253
Centrifugal machine	J. Naylor, Jr.	599,725	Mar. 1	82	19, 20	82	1232
Centrifugal machine	O. W. Schaum	605,017	May 31	3242	745	83	1313
Centrifugal machine	B. B. Snyder and J. J. Seldner	598,296	Feb. 1	406	95, 96	82	679
Centrifugal machine. Continuous	T. Craney	615,967	Dec. 13	1362	318	85	1691
Centrifugal resistance-controlling device	G. H. Whittingham	600,051	Mar. 1	770	175	82	1364
Centrifugal separator	C. A. Backstrom	597,253	Jan. 11	1378	322	82	283
Centrifugal separator	W. C. Hartmann	612,100	Oct. 11	910	221	85	189
Centrifugal separator	W. Johnson	601,377	Mar. 29	3128	706	82	1895
Centrifugal separator. Continuous	H. D. Robbé	614,764	Nov. 22	2753	628	85	1194
Ceramic compositions. Producing	C. C. Schirm	609,907	Aug. 30	3203	629	84	1338
Ceramic objects. Transferring metachromotypes under glaze upon	W. Wachter	597,339	Jan. 11	1524	---	82	313
Cesspool and trap. Sanitary	T. Linke	600,732	Mar. 15	2018	460	82	1642
Chain	C. W. Levalley	615,285	Dec. 6	118	32	85	1436
Chain	A. G. Reeve	612,138	Oct. 11	968	234	85	199
Chain-adjusting device	A. Pinover	605,743	June 14	1242	287	83	1609
Chain and sprocket-wheel	H. W. Bradley	616,072	Dec. 20	1558	364	85	1746
Chain and sprocket-wheel for driving bicycles, &c.	A. W. Menk	599,970	Mar. 1	542	124	82	1316
Chain-cleaning attachment	R. W. Sise	604,429	May 24	2219	496	83	1100
Chain connection. Cycle	F. Ecaubert	602,633	Apr. 19	1804	411	83	371
Chain coupling link or ring	I. B. Brooks	599,927	Mar. 1	474	107	82	1303
Chain-cover and gear-case. Revolving	W. E. Gilbert	612,564	Oct. 18	1715	407	85	353
Chain cover. Driving	W. E. F. Marchal. (Reissue)	11,700	Oct. 25	2893	681	85	601
Chain cover. Driving	W. E. F. Marchal	609,037	Aug. 16	1619	385	84	1000
Chain cover. Power-transmitting	B. L. Toquet	614,038	Nov. 8	1418	325	85	909
Chain covering. Drive	G. E. Whitney	607,786	July 19	2294	484	84	480
Chain. Cycle driving	J. W. Deans, W. D. and R. J. Foster	596,771	Jan. 4	560	129	82	108
Chain. Detachable-link	G. W. Fox	610,583	Sept. 13	817	187	84	1612
Chain. Drive	R. Abell	614,922	Nov. 29	3046	698	85	1267
Chain. Drive	C. W. Levalley	609,153	Aug. 16	1841	438	84	1041
Chain. Drive	J. Neil	615,882	Dec. 13	1188	278	85	1657



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Chain. Drive.....	F. W. Wood.....	610,751	Sept. 13	1090	250	84	1669
Chain for cycles, &c. Pitch.....	F. Woodcock.....	615,203	Nov. 29	3618	832	85	1378
Chain for transmitting motion.....	S. Pastor.....	601,525	Mar. 29	3387	767	82	1946
Chain-guard.....	G. A. Waters.....	610,313	Sept. 6	330	71	84	1505
Chain-link.....	W. H. Griffith.....	599,232	Feb. 15	1968	466	82	1009
Chain-link.....	W. H. Griffith.....	599,233	Feb. 15	1970	467	82	1009
Chain-link.....	W. H. Griffith.....	604,316	May 17	2006	449	83	1039
Chain links. Machine for upsetting sprocket.....	C. Hulst.....	612,847	Oct. 25	2259	539	85	475
Chain locking-link.....	H. F. Loos.....	609,890	Aug. 30	3179	744	84	1333
Chain. Power-transmitting.....	T. D. Dundas and G. Senior.....	601,748	Apr. 5	246	48	83	47
Chain. Sprocket.....	J. Barrett, I. Stevens, and R. Sutherland.....	601,333	Mar. 29	3065	690	82	1882
Chain. Sprocket.....	C. J. Cook.....	615,807	Dec. 13	1073	252	85	1635
Chain. Sprocket.....	E. S. Leaycraft.....	601,347	Mar. 29	3085	697	82	1886
Chain. Sprocket.....	H. E. Stahl.....	608,530	Aug. 2	637	143	84	781
Chain-tightener.....	F. A. Redmon.....	596,618	Jan. 4	283	62	82	57
Chain tightener. Drive.....	W. H. Ruef.....	601,417	Mar. 29	3202	722 723	82	1908
Chain winding or unwinding device.....	J. E. Stott.....	615,920	Dec. 13	1270	297	85	1672
Chains, &c. Hook for key.....	S. J. Barnett.....	600,254	Mar. 8	1184	268	82	1464
Chains. Locking device for connecting-bolts of drive.....	W. C. Soule.....	611,950	Oct. 4	617	150	85	121
Chains. Machine for manufacturing weldless chair.....	J. M. Davis.....	610,484	Sept. 6	551	121 122	84	1544
See Accouchement-chair. Invalid's chair.	Hammock-chair.						
Adjustable chair. Music-chair.							
Barber's chair. Opera-chair.							
Child's chair. Reclining-chair.							
Collapsible chair. Reclining, folding, and table chair.							
Commode-chair. Reclining high-chair.							
Convertible chair. Revolving chair.							
Dental chair. Shoe-fitting chair.							
Easy-chair. Surgical chair.							
Extension-chair. Wheel-chair.							
Folding chair.							
Chair.....	A. Andrén.....	597,665	Jan. 18	2082	487	82	439
Chair.....	J. G. Armour and C. Southorn.....	606,112	June 21	1993	457 458	83	1767
Chair.....	H. B. Banes.....	612,580	Oct. 18	1741	412	85	358
Chair.....	H. W. Bolens.....	600,854	Mar. 22	2223	506	82	1696
Chair.....	T. J. Dalton.....	602,574	Apr. 19	1694	385	83	350
Chair.....	G. A. Garland.....	609,389	Aug. 16	2279	539	84	1128
Chair.....	W. H. Herhold.....	611,251	Sept. 27	2011	464	84	1882
Chair.....	F. H. Karrer.....	604,156	May 17	1703	383	83	981
Chair.....	Z. T. Magee.....	601,575	Mar. 29	3455	785	82	1960
Chair.....	I. E. Palmer.....	604,212	May 17	1808	407	83	1001
Chair.....	I. E. Palmer.....	614,235	Nov. 15	1795	414	85	1001
Chair.....	E. J. Smith.....	608,010	July 26	2760	586	84	590
Chair.....	F. Ulrich.....	598,720	Feb. 8	1126	271	82	833
Chair.....	M. I. Wisler.....	611,882	Oct. 4	503	121	85	100
Chair adjusting device.....	W. H. O'Keefe.....	605,008	May 31	3226	742	83	1310
Chair and bed. Combined.....	J. A. Bergman.....	607,538	July 19	1860	387	84	400
Chair and bed. Combined.....	B. Murtagh.....	606,488	June 28	2698	622	83	1924
Chair and bedstead. Combined.....	J. Dixon.....	603,896	May 10	1192	269 270	83	848
Chair and ladder. Combined.....	J. F. Von Behren.....	596,841	Jan. 4	675	156	82	131
Chair-back-adjusting device.....	W. E. Latimer.....	614,963	Nov. 29	3142	721	85	1288
Chair, crib, cradle, bed, and walker. Combined.....	F. A. Tustison.....	604,341	May 17	2057	460 461	83	1049
Chair fan attachment. Rocking.....	R. M. Copenhagen.....	604,519	May 24	2390	543	83	1129
Chair fan attachment. Rocking.....	G. W. Dearborn.....	597,177	Jan. 11	1257	294	82	261
Chair foot-rest.....	J. D. Kelly.....	611,327	Sept. 27	2165	501	84	1911
Chair-iron.....	C. C. and F. Trapp.....	612,509	Oct. 18	1609	384	85	333
Chair iron. Tilting.....	M. A. Hanson and W. W. Wolff.....	599,502	Feb. 22	2512	592	82	1136
Chair-locking device. Convertible.....	T. W. Washburn.....	600,902	Mar. 22	2300	524	82	1709
Chair-seat.....	W. F. Spangler.....	607,894	July 26	2541	539	84	545
Chair-seat fabrics, &c. Art of and apparatus for manufacturing composite threads for weaving.....	E. Morris.....	609,452	Aug. 23	2396	563	84	1169
Chair spring. Rocking.....	G. H. Anderson.....	612,224	Oct. 11	1115	267	85	228
Chair-support.....	B. C. Scott.....	613,323	Nov. 1	181	40	85	651
Chair, washbench, &c. Combination.....	J. Van Melick.....	603,614	May 3	688	153	83	734
Chairs and upholstery. Spring-bottom for.....	W. H. Miller.....	608,062	July 26	2846	607	84	607
Chairs. Automatic locking device for.....	H. W. Welles.....	614,192	Nov. 15	1690	388	85	983
Chairs. Combined guard and cushion for nursery.....	G. M. G. Weston.....	612,076	Oct. 11	866	210	85	179
Chairs, &c. Spring for.....	D. E. Long.....	601,573	Mar. 29	3453	784	82	1960
Chairs. Ventilated auxiliary seat for.....	J. H. Van Devanter.....	612,620	Oct. 18	1830	434	85	375
Chalk-holder.....	G. P. Roberts.....	601,779	Apr. 5	306	60	83	58
Chandelier. Extension gas.....	J. T. Rice.....	603,776	May 10	959	214	83	803
Change-carrier.....	J. W. Jones.....	601,259	Mar. 29	2910	663	82	1853
Change-delivering device.....	J. S. Johnston.....	608,778	Aug. 9	1081	249	84	886
Change-making device.....	A. A. Smith.....	597,301	Jan. 11	1445	339	82	297
Channel-flap-turning machine.....	C. P. Stanbon.....	607,139	July 12	947	206	84	201
Channel-flaps. Tool for cutting and crimping.....	F. A. Whiting.....	613,895	Nov. 8	1197	274	85	865
Channeling-machine.....	C. P. Stanbon.....	607,140	July 12	949	206	84	201
Chariot. Cycloidal.....	J. W. Evans.....	597,276	Jan. 11	1409	330 331	82	289
Chaplets. Process of and machine for making.....	A. M. McGee.....	609,899	Aug. 30	3192	748	84	1336
Character-recording device.....	J. F. Engle and U. Wedge.....	616,655	Dec. 27	2689	623 624 625 626	85	1987
Charcoal-kiln.....	J. Berry.....	607,331	July 12	1308	279	84	270
Charging-buggy.....	W. B. Woods and L. Henry.....	603,751	May 10	915	203	83	795
Chart. Adjustable dress.....	A. H. Ormsby.....	599,247	Feb. 15	1996	474	82	1014
Chart. Adjustable garment.....	J. L. Delory.....	614,703	Nov. 22	2648	603	85	1173



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Chart. Dress-----	I. Williams-----	602,117	Apr. 12	913	199	83	185
Chart. Registry-----	J. P. Beardall-----	613,655	Nov. 8	765	175	85	783
Chart-table-----	S. N. Greenleaf and H. Barker-----	609,669	Aug. 23	2807	654	84	1247
Chatelaine-----	S. Zeugschmidt-----	601,725	Apr. 5	199	39	83	39
Check-hook-----	F. J. Frost, T. Souers, and C. W. Cooledge-----	603,234	Apr. 26	2845	649	83	585
Check or other negotiable instrument-----	W. H. Howard-----	599,841	Mar. 1	315	70	82	1272
Check or similar instrument-----	W. H. Howard-----	599,842	Mar. 1	316	71	82	1272
Check-protector-----	L. T. Weiss-----	603,416	May 3	300	67	83	657
Check-rower-----	M. J. O'Meara-----	612,269	Oct. 11	1201	288	85	243
Check-slip-----	S. Shoup-----	600,094	Mar. 1	857	197 198	82	1382
Check-spring-----	F. B. Walker-----	597,596	Jan. 18	1966	457	82	418
Check system. Protective bank-----	C. L. Beers-----	604,926	May 31	3101	713	83	1285
Check. Tablet-----	W. E. Bowen-----	616,653	Dec. 27	2685	622	85	1986
Checking apparatus for registering payments on vehicles, &c.-----	F. W. Phillips-----	609,045	Aug. 16	1642	392	84	1006
Checking device-----	E. C. Eaglesfield-----	613,979	Nov. 8	1330	302	85	891
Checking device-----	W. M. Shutt-----	608,920	Aug. 9	1372	324	84	941
Checkrein-holder-----	I. M. Fisher-----	614,649	Nov. 22	2548	581	85	1155
Checkrein-holder-----	C. M. Hinsdale-----	612,418	Oct. 18	1462	353	85	305
Checkrein-holder. Automatic-----	O. Gravelle-----	599,898	Mar. 1	431	95	82	1295
Chemical compounds by electrolysis. Producing-----	J. W. Richards and C. W. Roepper-----	602,872	Apr. 26	2218	83	467	
Chemical engine-----	T. Down-----	611,030	Sept. 20	1592	365	84	1783
Chenille and chenille fabric-----	J. S. Templeton-----	616,748	Dec. 27	2867	664	85	2024
Chenille-cutting machine-----	W. McCleary-----	605,118	June 7	83	23	83	1368
Chenille to tulle. Apparatus for applying-----	A. P. L. Isaac-----	598,375	Feb. 1	522	127	82	701
Cheval-glass-----	W. F. Wagner-----	615,928	Dec. 13	1288	299	85	1675
Children. Device for amusing-----	E. L. Foster-----	602,215	Apr. 12	1095	240	83	220
Child's chair-----	F. C. Hannahs-----	604,045	May 17	1493	335	83	941
Child's chair. Combination-----	C. J. Fichtl-----	606,654	July 5	31	7	84	8
Chilian mill-----	H. K. King-----	612,247	Oct. 11	1170	281	85	237
Chilled rolls. Method of and apparatus for making-----	F. Gorman-----	616,835	Dec. 27	3006	700	85	2052
Chimney and smoke-flue. Masonry-----	C. H. Ganzel, Sr-----	610,396	Sept. 6	489	107	84	1533
Chimney-cap-----	J. Houle-----	602,451	Apr. 19	1494	341	83	313
Chimney-cleaner-----	P. C. Dunn-----	598,672	Feb. 8	1042	251	82	817
Chimney-cleaner-----	V. Lefebvre and T. Poliquin-----	614,874	Nov. 29	2962	680	85	1250
Chimney-cleaner-----	A. Messenger-----	606,567	June 28	2851	657	83	1955
Chimney-cowl-----	A. Dickey-----	610,033	Aug. 30	3439	797	84	1384
Chimney-cowl-----	O. Kuphal-----	603,881	May 10	1166	263	83	844
Chimney-holder-----	J. H. Wallace and A. G. Hilton-----	606,850	July 5	404	86	84	81
Chimney-protector-----	W. Van Gaasbeek-----	613,740	Nov. 8	932	214	85	814
Chimney top and ventilator-----	R. Blum-----	612,638	Oct. 18	1861	440	85	380
Chimney-top draft-regulator-----	B. B. Lewis-----	612,547	Oct. 18	1675	398	85	346
Chin-rest and modulator. Combined-----	C. C. Harlan and C. C. B. Mullin-----	615,848	Dec. 13	1140	266	85	1648
Chin-support and eye-closer for the dead-----	E. Raus-----	599,731	Mar. 1	90	22	82	1233
Chisel-holder-----	J. J. Flyckt-----	604,379	May 24	2130	478	83	1083
Chisel. Mortising-----	W. Potter-----	597,020	Jan. 11	983	232	82	207
Chisel. Mortising-----	W. Potter-----	609,366	Aug. 16	2233	528	84	1119
Chlorates and bleaching liquor. Apparatus for making-----	W. R. Clarke-----	609,608	Aug. 23	2679	625	84	1221
Chlorin derivatives of toluene. Making-----	P. P. Monnet-----	606,470	June 28	2672	83	1919	
Chocolate-coating machine-----	P. J. Vanderlinda-----	601,217	Mar. 22	2824	645 646	82	1809
Chopper:-----							
<i>See</i> Cotton-chopper. Stalk-chopper.-----							
Chopping-machine-----	A. S. Stewart-----	601,532	Mar. 29	3394	770	82	1948
Christmas-tree ornament-----	B. Wilmsen-----	605,158	June 7	183	46	83	1385
Chromates. Making-----	S. P. Sadtler-----	599,197	Feb. 15	1914	82	998	
Chronograph-----	M. Wildermann and R. L. Mond-----	598,042	Jan. 25	2727	637	82	578
Chuck-----	E. Childs-----	612,378	Oct. 11	1391	337	85	279
Chuck-----	J. Hartness-----	601,513	Mar. 29	3365	763	82	1941
Chuck-----	J. A. Howarth-----	597,558	Jan. 18	1897	441	82	404
Chuck-----	R. H. Hurlbut-----	599,562	Feb. 22	2616	613 614	82	1157
Chuck. Drill-----	W. H. Merrell-----	608,061	July 26	2845	607	84	607
Chuck. Drill-----	J. E. Redin and C. A. Wessman-----	597,328	Jan. 11	1499	349	82	309
Chuck. Expansion-----	J. Robinson-----	599,255	Feb. 15	2009	477	82	1017
Chuck for woodworking machinery. Lathe-----	C. H. Bartlett-----	608,636	Aug. 9	847	194	84	841
Chuck. Lathe-----	E. F. Gibbs-----	609,019	Aug. 16	1585	377	84	994
Chuck. Lathe-----	J. A. Graham-----	599,961	Mar. 1	530	121	82	1313
Chuck. Lathe-----	A. J. Johnson-----	605,166	June 7	194	49	83	1387
Chuck. Magnetic-----	O. S. Walker-----	614,190	Nov. 15	1688	388	85	982
Chuck. Rock-drill-----	E. H. Bourne-----	603,101	Apr. 26	2620	595	83	541
Chuck. Screw-machine-----	E. V. Gauthier-----	608,449	Aug. 2	498	113	84	755
Churn-----	H. A. Burke-----	601,427	Mar. 29	3219	726	82	1912
Churn-----	W. T. Burroughs-----	615,676	Dec. 13	846	195	85	1591
Churn-----	H. D. Coffey-----	609,412	Aug. 23	2322	548	84	1155
Churn-----	W. P. Coker-----	607,342	July 12	1326	283	84	274
Churn-----	H. H. Coppock and F. W. Miller-----	599,598	Feb. 22	2686	628	82	1169
Churn-----	L. Drake-----	615,147	Nov. 29	3487	800	85	1352
Churn-----	J. P. Dunn-----	603,375	May 3	224	50	83	644
Churn-----	N. E. Ferrell-----	597,970	Jan. 25	2606	609	82	556
Churn-----	W. F. Gatewood-----	611,470	Sept. 27	2448	564	84	1963
Churn-----	J. E. Gibbs-----	597,060	Jan. 11	1057	248	82	223
Churn-----	J. R. Halley-----	599,332	Feb. 22	2169	515	82	1069
Churn-----	J. A. Hanger-----	606,966	July 5	569	125	84	113
Churn-----	J. A. Hawk-----	600,978	Mar. 22	2421	553	82	1732
Churn-----	F. J. Hoge-----	603,381	May 3	232	52, 53	83	645
Churn-----	N. Isachsen-----	608,404	Aug. 2	427	94	84	741
Churn-----	S. B. Jones-----	598,996	Feb. 15	1585	376	82	938
Churn-----	W. S. Knox-----	612,737	Oct. 18	2028	482	85	412
Churn-----	A. M. Lance and F. J. Flocker-----	603,091	Apr. 26	2607	592	83	538
Churn-----	J. Lieblang-----	606,806	July 5	326	67, 68	84	65
Churn-----	J. A. Maddox-----	604,059	May 17	1527	343	83	946
Churn-----	S. G. Mills-----	611,500	Sept. 27	2499	577	84	1973



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Churn	G. E. Moser	599,723	Mar. 1	80	18, 19	82	1231
Churn	M. V. Olinger	597,736	Jan. 25	2201	514	82	479
Churn	J. W. Otto	605,649	June 14	1088	250	83	1580
Churn	G. R. Sexsmith	607,771	July 19	2265	478	84	474
Churn	W. G. Stone	602,201	Apr. 12	1070	235	83	216
Churn	J. A. Swearingen	616,371	Dec. 20	2149	500	85	1865
Churn	N. J. Tubbs	601,387	Mar. 29	3149	711	82	1898
Churn	R. F. Yancey	599,212	Feb. 15	1940	460	82	1004
Churn and butter-worker	W. E. Penn and C. S. Brown	604,262	May 17	1903	425 426	83	1019
Churn and butter-worker. Combined	T. J. Howe, D. J. Ames, and H. N. Labare.	597,905	Jan. 25	2493	581 582 583	82	533
Churn and butter-worker. Combined	W. E. Penn and C. S. Brown	600,168	Mar. 8	1043	234 235	82	1438
Churn-dasher	W. W. Brazell	600,400	Mar. 8	1415	324	82	1509
Churn-dasher	E. A. Franklin	615,154	Nov. 29	3501	804	85	1354
Churn-dasher	I. F. and H. A. Holmes	600,151	Mar. 8	1016	227	82	1433
Churn-dasher	S. Sims	614,138	Nov. 15	1601	367	85	966
Churn-dasher	E. B. West	609,858	Aug. 30	3115	728	84	1321
Churn-operating mechanism	L. Reed	608,222	Aug. 2	97	25	84	674
Churn-power	J. M. Dorsey	616,830	Dec. 27	2998	698	85	2050
Churn-powers. Means for regulating	J. C. Moore and J. L. Thurman	611,220	Sept. 20	1952	451	84	1851
Chute	J. W. Myers	604,834	May 31	2937	672	83	1253
Chute and crib. Revolving coal	R. T. Darrah	606,520	June 28	2747	634	83	1934
Chute. Bin-	L. E. Cochran	613,026	Oct. 25	2540	604	85	532
Chute. Coal-	J. S. Chew	609,658	Aug. 23	2792	651	84	1243
Chute. Coal-	O. Crosby	599,769	Mar. 1	167	40, 41	82	1247
Chute. Coin-	C. J. Taylor	611,530	Sept. 27	2547	588	84	1983
Chute for apartment-houses. Waste-	J. D. Thompson	596,686	Jan. 4	403	91	82	80
Chute. Grain-	F. Kuser	610,066	Aug. 30	3491	809	84	1394
Cider. Apparatus for expressing	E. and T. Flory	602,620	Apr. 19	1776	405 406	83	366
Cider-press	W. H. Wenk, Jr	598,456	Feb. 1	662	163	82	729
Cigar-box	E. F. Hamburg	605,421	June 7	698	155	83	1487
Cigar-box	W. A. Stickney	597,791	Jan. 25	2309	588	82	498
Cigar-box attachment	J. R. Grinsfelder	610,807	Sept. 13	1203	277	84	1692
Cigar-box. Folding	H. Swanger	598,542	Feb. 8	811	194	82	774
Cigar-branding machine	N. Du Brul	596,860	Jan. 4	707	163	82	138
Cigar-bunch-rolling machine	F. R. Keyes	607,051	July 12	775	169 170	84	169
Cigar-bunching machine	A. Frank	613,983	Nov. 8	1337	303	85	893
Cigar-bunching machine	J. J. Ryan	600,379	Mar. 8	1377	315	82	1502
Cigar-cell series	O. L. Parmenter	598,483	Feb. 1	705	171	82	736
Cigar-cell series	O. L. Parmenter	598,484	Feb. 1	706	171	82	736
Cigar-cell series	O. L. Parmenter	598,485	Feb. 1	708	171 172	82	737
Cigar-clipper	J. E. Le Duc	598,634	Feb. 8	976	235	82	805
Cigar-cutter and advertising device. Combination	R. Dykeman	610,388	Sept. 6	479	104 105	84	1531
Cigar-cutter and match-igniter	W. H. Thompson	598,718	Feb. 8	1122	270 271	82	832
Cigar-cutting and lighting machine	E. A. Johnston	606,820	July 5	345	73	84	69
Cigar-cutting and stamping machine	B. Sheldon	597,593	Jan. 18	1961	456	82	417
Cigar-cutting machine	G. W. Tanner	596,728	Jan. 4	487	111	82	94
Cigar exhibiting and vending apparatus. Coin-controlled	W. L. Dunham	616,441	Dec. 20	2273	530	85	1890
Cigar-header and wrapper-stretcher	J. Bunn	601,410	Mar. 29	3192	720	82	1906
Cigar-holder	W. W. Bahan	603,051	Apr. 26	2524	574	83	523
Cigar-holder and tobacco-pipe	J. Bigelow	608,170	Aug. 2	6	2	84	656
Cigar-lighter	A. C. Gruhlke	613,140	Oct. 25	2723	643	85	568
Cigar-lighter. Electric	W. F. Kessler	598,489	Feb. 1	714	173	82	738
Cigar-lighter. Pendent	H. Giddings	605,818	June 14	1400	321	83	1638
Cigar-machine	J. Reuse	608,915	Aug. 9	1356	318 319 318	84	938
Cigar-machine	J. Reuse. (Reissue)	11,695	Sept. 20	1969	454 455 456	84	1854
Cigar-machine	O. Wartmann	604,445	May 24	2245	504	83	1105
Cigar-maker's paste-cup	H. S. Holcomb	597,184	Jan. 11	1266	297	82	263
Cigar-making machine	J. Reuse	608,913	Aug. 9	1348	314 315 315	84	936
Cigar-making machine	J. Reuse	608,914	Aug. 9	1351	316 317 318	84	937
Cigar-moistener and pressure device	F. Burger and H. M. Williams	607,826	July 26	2400	510	84	519
Cigar or cigarette	M. Feder	596,657	Jan. 4	354	78	82	70
Cigar or cigarette package	C. M. Holmes	600,615	Mar. 15	1814	416	82	1603
Cigar-package	C. F. Zenker	611,671	Oct. 4	142	35	85	30
Cigar-rolling machine	J. Bunn	610,754	Sept. 13	1095	251	84	1670
Cigar-support	H. Heisel	598,091	Feb. 1	35	9	82	610
Cigar-tip cutter	T. A. Cole	606,377	June 28	2508	582	83	1886
Cigar-tip cutter	S. Y. Tabb	599,878	Mar. 1	387	87	82	1286
Cigar-tip cutter	S. Y. Tabb	599,879	Mar. 1	388	87	82	1286
Cigar-tip-cutter and match-safe. Combined	E. M. Hall	607,365	July 12	1363	291	84	280
Cigar-tip cutter. Registering	F. Fontneau	607,167	July 12	1002	218	84	211
Cigar-tip protector	F. E. Heinig	603,639	May 10	733	164	83	759
Cigar-vending machine	G. Heidenreich	616,324	Dec. 20	2059	479 480	85	1847
Cigar-wrapper-cutting machine	C. A. Baker	596,467	Jan. 4	1	1	82	3
Cigar-wrapper-cutting machine	N. Du Brul	599,227	Feb. 15	1958	464	82	1007
Cigar-wrapper-cutting machine	N. Du Brul	606,129	June 21	2022	463	83	1772
Cigar-wrapping machine	J. Bunn	601,411	Mar. 29	3193	720	82	1907
Cigars or cigarettes. Machine for vending lighted	A. Caude	605,853	June 21	1497	342 343	83	1674



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page
Cigarette	J. O. Eaton	599,834	Mar. 1	305	69	82	1270
Cigarette	H. Goldenfarb	606,537	June 28	2800	646	83	1944
Cigarette-box	J. E. Bucklin	603,872	May 10	1150	259	83	840
Cigarette ends. Machinery for finishing	J. S. Beeman	614,783	Nov. 22	2778	635 636 637	85	1200
Cigarette-former	W. S. Mallard	604,623	May 24	2570	586	83	1165
Cigarette-former. Pocket	D. Veith	603,714	May 10	853	18	83	783
Cigarette-machine	D. J. Campbell	610,855	Sept. 13	1279	296	84	1707
Cigarette-machine	J. O. Eaton	602,436	Apr. 19	1463	332 333	83	308
Cigarette-machine	R. Legg	616,477	Dec. 27	2358	548 387 388 389	85	1927
Cigarette-machine	E. Moonelis	609,039	Aug. 16	1627	406	84	1002
Cigarette-machine. Pocket	T. S. Fitch	604,208	May 17	1803	803	83	1000
Cigarette-making device	D. G. Meinz	601,618	Mar. 29	3522	82	82	1973
Cigarette-making machine	J. H. Schmidt	596,547	Jan. 4	150	34	82	81
Cigarette-making machine	J. H. Schmidt	603,488	May 3	445	99 100 101 102	83	687
Cigarette-making machine	J. H. Schmidt	612,872	Oct. 25	2299	548 549	85	483
Cigarette-making machine	M. Stern	598,753	Feb. 8	1173	281	82	842
Cigarette. Mouthpiece	E. T. Gilliland	609,741	Aug. 23	2918	682	84	1268
Cigarette-wrapper	C. H. Mehner	604,257	May 17	1889	83	83	1016
Cigarettes. Machine for making all-tobacco	J. S. Detrick	610,261	Sept. 6	217	49 56 57 58 59	84	1484
Cigarettes. Machine for making all-tobacco	H. Robinson	610,280	Sept. 6	267	40, 41	82	37
Cigarettes with coating material for mouthpieces.	T. E. Allen	596,564	Jan. 4	180	40, 41	82	37
Mechanism for providing one end of wrappers for	A. P. Miller	602,865	Apr. 26	2209	500	83	465
Cinders and smoke. Device for carrying off	F. C. Wildman and S. E. Allen	601,455	Mar. 29	3269	738	82	1921
Circle-making device	W. I. Crawford	614,794	Nov. 22	2801	643	85	1204
Circuit-breaker	F. A. La Roche	615,395	Dec. 6	340	80	85	1479
Circuit-breaker	F. C. Robertson	597,700	Jan. 18	2143	500	82	449
Circuit-breaker. Automatic magnetic	C. M. Clark	616,405	Dec. 20	2214	516	85	1877
Circuit-breaker. Electromagnetic	G. S. Dunn	601,871	Apr. 5	485	100	83	90
Circuit-breaker for three-wire systems	E. M. Hewlett	610,903	Sept. 20	1370	314	84	1741
Circuit-breaker. Magnetic	D. M. Moore	604,682	May 24	2669	611 612	83	1184
Circuit-breaker. Magnetic	D. M. Moore	604,683	May 24	2671	612	83	1184
Circuit-breaking switch. Automatic	W. F. Bossert and W. D. Pomeroy	610,887	Sept. 20	1343	307	84	1736
Circuit-closer	W. D. Kennedy	604,157	May 17	1704	384	83	981
Circuit closer and cut-out. Automatic safety	W. L. Pratt	600,743	Mar. 15	2039	466	82	1647
Circuit-closer. Thermal	L. Emdin and J. A. Dewson	606,004	June 21	1785	409	83	1728
Circuit-controller and receiver-support	L. Duque	612,236	Oct. 11	1137	272	85	232
Circuit-interrupter	D. M. Moore	604,683	May 24	2682	614	83	1186
Circuit-interrupting device	D. M. Moore	611,206	Sept. 20	1914	442	84	1844
Circuit-interrupting mechanism	D. M. Moore	604,687	May 24	2681	613	83	1186
Cistern-cleaner	W. E. Conway and E. A. Murray	606,161	June 21	2080	479	83	1783
Cistern-cleaner	A. Jackson	598,250	Feb. 1	316	72	82	661
Cistern-cleaner	G. H. Lynds	612,612	Oct. 18	1818	432	85	373
Cistern-cleaner	C. Plummer	612,176	Oct. 11	1035	249	85	212
Cistern-cleaning device	W. M. Ricketts	610,279	Sept. 6	266	56	84	1493
Cithern	C. T. Menze	603,699	May 10	832	184	83	779
Cithern. Violin or mandolin	A. Wascinski	605,764	June 14	1276	295	83	1616
Clam-shell scoop or digging apparatus	J. H. Lancaster	597,422	Jan. 18	1667	387	82	357
Clamp:							
See Artery-clamp.	Furniture-clamp.						
Ball-and-socket clamp.	Furniture-maker's clamp.						
Ball-and-socket-joint clamp.	Harrow-tooth clamp.						
Basin-clamp.	Heddle-bar locking-clamp.						
Bedclothes-clamp.	Hitching-strap clamp.						
Bed-rail clamp.	Hose-clamp.						
Belt-clamp.	Jeweler's clamp.						
Belt-clamp.	Machinist's clamp.						
Bench-clamp.	Miter-clamp.						
Bicycle-handle-bar clamp.	Picker-staff clamp.						
Bicycle-saddle clamp.	Pipe-clamp.						
Bicycle-seat clamp.	Plow-handle clamp.						
Board-clamp.	Plumber's clamp.						
Broom-clamp.	Rail-clamp.						
Carvings-clamp.	Rope-clamp.						
Cloth-clamp.	Rope socket-clamp.						
Colter-clamp.	Rubber-dam clamp.						
Corset-clamp.	Saw-clamp.						
Dental rubber-dam clamp.	Scaffold-clamp.						
Desk-clamp.	Screw-clamp.						
Draw-timber clamp.	Sewing-machine cloth-clamp.						
Electric-wire clamp.	Sewing-machine presser-clamp.						
Fence-clamp.	Strap or rope clamp.						
Fence-machine clamp.	Surgical injector-clamp.						
Floor-clamp.	Telescopic clamp.						
Frame-clamp.	Trousers-clamp.						
	Wagon-box clamp.						
	Wick-trimming clamp.						
Clamp	C. Cohalan	601,370	Mar. 29	3119	704	82	1893
Clamp	W. S. Gubelmann	599,039	Feb. 15	1663	393	82	954



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Clamp.....	I. F. Hauff.....	614,105	Nov. 15	1539	353	85	954
Clamp.....	T. S. Kilgore.....	601,569	Mar. 29	3447	783	82	1959
Clamping and pivot-supporting device.....	T. S. Heineken.....	606,866	July 5	434	93	84	85
Clamping device.....	R. H. White.....	602,149	Apr. 12	978	214	83	196
Clasp:							
<i>See</i> Broom-clasp.      Locking-clasp.							
Budding-clasp.      Rein-clasp.							
Corset-clasp.      Ribbon-clasp.							
Garment-clasp.      Spring-clasp.							
Lace-clasp.      Suspender-clasp.							
Letter-clasp.      Tag-clasp.							
Clasp.....	J. L. Carney.....	605,219	June 7	305	70	83	1409
Clasp.....	J. Forsheim.....	603,401	May 3	271	60	83	652
Clasp.....	W. E. Hatheway.....	598,090	Feb. 1	33	9	82	610
Clasp.....	J. H. Pilkington.....	606,082	June 21	1943	446	83	1756
Clasp.....	A. E. Taylor.....	607,297	July 12	1245	265	84	257
Clasp or fastening device.....	A. R. Pettit.....	600,887	Mar. 22	2279	519	82	1706
Clavier. Mute.....	L. Illmer, Jr.....	610,448	Sept. 6	573	126	84	1548
Claw-bar.....	Z. Wiggs.....	612,600	Oct. 18	1775	419	85	364
Clay-press tray.....	S. B. Furnival.....	612,327	Oct. 11	1305	315	85	261
Clay-product machines. Double die or mold for.....	W. W. Wallace.....	600,565	Mar. 15	1735	396	82	1589
Clay products. Machine for making.....	W. W. Wallace.....	608,937	Aug. 9	1417	334	84	948
Clay products. Machine for pressing.....	J. J. Merrill.....	607,870	July 26	2497	530	84	537
Clay shingles, roofing-tiles, bricks, &c. Machine for pressing.....	A. B. Klay, G. Jennings, and F. Ewing.	615,560	Dec. 6	641	147	85	1537
Clay-steamer.....	T. W. Carmichael.....	598,282	Feb. 1	381	88	82	674
Clay-working machine. Wire-cut.....	F. L. H. Sims.....	598,539	Feb. 8	807	193	82	773
Clean-out trap for range-closets.....	J. H. Brady.....	598,899	Feb. 15	1406	338	82	903
Cleaner:							
<i>See</i> Barrel-cleaner.      Gutter-cleaner.							
Beer or ale pipe cleaner.	Hose-cleaner.						
Beer-pipe cleaner.      Lamp-chimney cleaner.							
Blackboard-cleaner.      Pipe-cleaner.							
Boiler-cleaner.      Pipe and flue cleaner.							
Boiler-flue cleaner.      Rail-groove cleaner.							
Boiler-tube cleaner.      Rail-track cleaner.							
Boot-cleaner.      Railway-track cleaner.							
Boot or shoe cleaner.      Seed-cleaner.							
Can-cleaner.      Seed-drill cleaner.							
Carpet-cleaner.      Sieve-cleaner.							
Chimney-cleaner.      Street-cleaner.							
Cistern-cleaner.      Tobacco-pipe cleaner.							
Cotton-cleaner.      Track-cleaner.							
Cuspidor-cleaner.      Tube-cleaner.							
Dish-cleaner.      Vessel-cleaner.							
Flower-pot cleaner.      Well-cleaner.							
Flue-cleaner.      Wheat-cleaner.							
Fruit-cleaner.      Wheel-cleaner.							
Window-cleaner.							
Cleaner.....	L. J. Widness.....	602,592	Apr. 19	1725	392	83	356
Cleaning and polishing compound.....	B. Benville.....	614,787	Nov. 22	2792	85	85	1202
Cleaning and polishing composition.....	A. Maher.....	599,003	Feb. 15	1594	82	82	940
Cleaning. Apparatus for chemical.....	A. F. Platt.....	608,792	Aug. 9	1106	256	84	891
Cleaning device.....	J. R. Dever.....	612,711	Oct. 18	1989	471	85	404
Clevis.....	H. Gallager.....	601,560	Mar. 29	3435	780	82	1957
Clevis.....	W. H. Lightcap.....	602,022	Apr. 5	748	161	83	142
Clevis.....	G. H. Taylor.....	605,656	June 14	1101	253	83	1582
Clevis. Cross.....	J. L. Thomas.....	599,204	Feb. 15	1923	455	82	1000
Clevis. Plov.....	A. Braatz.....	606,509	June 28	2729	629	83	1931
Clevis. Plov.....	C. A. Johnson.....	610,968	Sept. 20	1479	338	84	1762
Clevis. Plov.....	E. W. Kruse.....	611,690	Oct. 4	173	42	85	36
Clevis. Plov draft.....	S. H. Snowden.....	613,087	Oct. 25	2647	626	85	553
Clinometer.....	R. J. and J. F. Schneider.....	613,782	Nov. 8	996	227	85	826
Clip:							
<i>See</i> Ax-handle clip.      Paper-clip.							
Bicycle-pedal clip.      Pedal toe-clip.							
Bicycle toe-clip.      Stentering-machine clip.							
Cloth-clip.      Tenting-machine clip.							
Drop-light-wire clip.      Toe-clip.							
Harrow-tooth clip.      Velocipede toe-clip.							
Hat-clip.      Whiffletree-clip.							
Clip-board and bookbinder. Combined.....	E. A. Trussell.....	601,027	Mar. 22	2508	570	82	1748
Clip for adjusting cords or wires.....	A. Faber du Faur.....	613,196	Oct. 25	2811	663	85	587
Clipper. Hair.....	J. M. King.....	614,960	Nov. 29	3139	720	85	1287
Clipper. Hair.....	C. H. Redman, Jr.....	608,078	July 26	2871	614	84	612
Clipper. Hair.....	W. H. Underwood.....	616,214	Dec. 20	1850	427	85	1804
Clock.....	S. B. Wortmann.....	598,589	Feb. 8	894	214	82	790
Clock. Alarm.....	F. Gundorph.....	611,733	Oct. 4	254	61	85	52
Clock. Alarm.....	F. D. Hoehl.....	606,143	June 21	2051	470	83	1777
Clock. Alarm.....	A. Junghans and C. A. Hirth.....	608,867	Aug. 9	1279	298	84	922
Clock. Alarm.....	W. E. Porter.....	615,044	Nov. 29	3300	759	85	1316
Clock and gramophone. Combined.....	J. A. Vincent.....	602,490	Apr. 19	1553	354	83	325
Clock attachment.....	J. Schindler.....	600,322	Mar. 8	1290	294	82	1485
Clock attachment. Alarm.....	P. C. Howe.....	596,680	Jan. 4	392	88	82	78
Clock-bell.....	A. Bannatyne.....	600,705	Mar. 15	1974	449	82	1634
Clock. Carriage.....	H. W. Mitchell.....	606,568	June 28	2852	657	83	1955
Clock center-arbor.....	T. W. R. McCabe.....	598,055	Jan. 25	2750	641	82	584
Clock-controlled switch.....	F. L. Mackey.....	602,706	Apr. 19	1938	440	83	297
Clock-dial-fastening device.....	D. J. Hurley.....	616,237	Dec. 20	1912	442	85	1817
Clock-dial for indicators, &c. Illuminated.....	R. R. Gareau.....	605,312	June 7	486	109	83	1444
Clock-dial sash.....	W. H. Wright.....	614,523	Nov. 22	2317	531	85	1113
Clock. Electric.....	S. Fischer.....	603,232	Apr. 26	2839	648	83	584



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Clock. Electric.....	F. Hope-Jones and G. B. Bowell	610,539	Sept. 13	741	169	84	1597
Clock. Electric.....	F. Richard	596,943	Jan. 4	852	200	82	165
Clock. Electric.....	W. Whitehead	604,508	May 24	2373	539	83	1127
Clock. Electric program.....	J. O. Lyman	603,450	May 3	356	80, 81	83	668
Clock. Pneumatic.....	A. L. Hahl	598,066	Jan. 25	2770	645	82	588
Clock. Program.....	E. F. Burrill	601,850	Apr. 5	450	91	83	84
Clock. Repeating.....	A. Bannatyne	610,753	Sept. 13	1092	250	84	1669
Clock. Repeating alarm.....	W. D. Davies	608,424	Aug. 2	465	104	84	748
Clock. Repeating alarm.....	W. D. Davies	611,566	Sept. 27	2623	605	84	1997
Clock. Secondary electric.....	A. D. Blodgett	604,453	May 24	2260	508	83	1108
Clock striking mechanism.....	G. W. Adams	613,183	Oct. 25	2790	658	85	583
Clock-train. Electric.....	C. M. Crook	610,229	Sept. 6	162	36	84	1474
Clock-winding indicator.....	W. E. Lott	614,402	Nov. 15	2098	483	85	1059
Clocks. Hammer for striking.....	W. E. Porter	605,744	June 14	1243	287	83	1609
Clod-crusher and land-roller. Combined.....	A. Zimmer and B. Roenisch	609,069	Aug. 16	1682	400	84	1013
Closet: See Garbage-closet. Water-closet.							
Closet-cistern.....	J. P. J. Cahill	609,079	Aug. 16	1696	404	84	1015
Closet-operating device. Siphon-jet.....	P. Harvey	597,499	Jan. 18	1809	419	82	385
Closet-seat cover.....	L. Conradi, Jr.	597,264	Jan. 11	1392	325	82	286
Closure-cap, cover, stopper, &c.....	T. Sloper	610,924	Sept. 20	1398	320	84	1746
Closure-controlling apparatus.....	H. Rowntree	596,946	Jan. 4	855	201	82	166
Cloth. Apparatus for detecting wrinkles in.....	T. Rowe	601,780	Apr. 5	307	60	83	58
Cloth-clamp for textile machinery.....	R. P. Winsor	604,103	May 17	1614	362	83	964
Cloth-clip.....	W. R. Tillinghast	600,184	Mar. 8	1066	241	82	1442
Cloth-cutting apparatus.....	J. Jackson and G. C. Boroughs	603,851	May 10	1110	250	83	832
Cloth-cutting machine.....	G. Castle	596,738	Jan. 4	503	115	82	98
Cloth-cutting machine.....	C. H. Crowell	607,586	July 19	1951	405	84	415
Cloth-cutting machine.....	N. Komow	611,861	Oct. 4	468	112	85	94
Cloth-cutting machine.....	A. and E. Levene	601,608	Mar. 29	3508	800	82	1970
Cloth-cutting machine.....	H. Warth	616,216	Dec. 20	1854	428	85	1805
Cloth folding and measuring machine.....	J. Smalley	600,558	Mar. 15	1725	394	82	1587
Cloth-folding machine.....	E. Hall	604,749	May 31	2807	641	83	1228
Cloth-folding machines. Feeding mechanism for.....	G. A. Schulze	611,799	Oct. 4	355	86	85	71
Cloth-holder.....	S. Bloomer	599,072	Feb. 15	1711	406	82	963
Cloth-inspecting machine.....	E. T. and E. H. Marble	608,468	Aug. 2	532	119	84	761
Cloth-napping mechanism.....	C. M. Musgrove	600,885	Mar. 22	2276	519	82	1705
Cloth-ornamenting apparatus.....	J. Lancaster and C. Witteck	609,190	Aug. 16	1904	453	84	1052
Cloth-shearing machine.....	M. La Fountain, Jr.	615,190	Nov. 29	3560	819	85	1366
Cloth-shearing machine.....	C. E. Richardson	609,166	Aug. 16	1866	445	84	1045
Cloth-shearing-machine selvage-guide.....	L. C. Hollingworth	598,264	Feb. 1	341	79	82	666
Cloth-sizing apparatus.....	R. E. Menzie	600,676	Mar. 15	1924	437	82	1625
Cloth sponging and shrinking machine.....	G. Rothholz	611,795	Oct. 4	350	84, 85	85	70
Cloth-superposing machine.....	H. E. Couzineau	604,605	May 24	2543	580	83	1159
Cloth-testing device.....	S. McKnight	598,205	Feb. 1	239	53	82	647
Cloth-winding machine.....	J. E. Windle	608,817	Aug. 9	1191	278	84	905
Clothes and waste receptacle. Collapsible.....	O. L. Apthorp	608,998	Aug. 16	1551	369	84	989
Clothes-drainer.....	M. Tyner	601,066	Mar. 22	2570	586	82	1761
Clothes-drier.....	W. J. Coulter	612,309	Oct. 11	1274	308	85	256
Clothes-drier.....	C. Drake	603,132	Apr. 26	2677	607	83	554
Clothes-drier.....	P. Jodoin	606,060	June 21	1898	437	83	1748
Clothes-drier.....	J. N. Parker	611,503	Sept. 27	2504	578	84	1974
Clothes-drier.....	W. E. Shields	604,428	May 24	2218	496	83	1100
Clothes-drier.....	J. L. Siefkes	599,871	Mar. 1	378	85	82	1284
Clothes-drier.....	J. B. Story	613,331	Nov. 1	195	43	85	654
Clothes-drier.....	E. A. Williston	606,401	June 28	2550	590	83	1893
Clothes-drying apparatus.....	T. Jackson	611,688	Oct. 4	169	41	85	36
Clothes-fastener.....	W. H. Orr	613,710	Nov. 8	869	201	85	802
Clothes-hanger.....	E. J. Deragon	605,633	June 14	1059	244	83	1574
Clothes-hanger.....	W. P. Smith	615,918	Dec. 13	1260	295	85	1671
Clothes hanger or press.....	E. P. McConnell	612,748	Oct. 18	2051	486	85	417
Clothes-hanger. Window.....	R. B. Fordham	602,316	Apr. 12	1264	279	83	255
Clothes, hat, and display rack. Rotary.....	J. F. Finan	612,718	Oct. 18	1997	474	85	406
Clothes-holder.....	L. W. Adolfsen	596,838	Jan. 4	672	155	82	130
Clothes-holder. Wardrobe.....	M. F. Scott	613,081	Oct. 25	2640	623	85	551
Clothes-lifter.....	J. Berkowitz	613,439	Nov. 1	416	95	85	695
Clothes-line.....	P. Sinnott	606,363	June 28	2480	576	83	1880
Clothes-line.....	W. W. Smith	615,314	Dec. 6	159	42	85	1444
Clothes-line.....	W. W. St. John	598,878	Feb. 8	1372	330	82	881
Clothes line and pin.....	W. D. Monjay	600,160	Mar. 8	1029	231	82	1435
Clothes-line hanger.....	R. and N. Luckner	608,205	Aug. 2	69	19	84	668
Clothes-line holder.....	W. Koch	605,607	June 14	1004	231	83	1564
Clothes-line holder.....	C. L. Kraber	615,859	Dec. 13	1155	270	85	1652
Clothes-line. Pinless.....	J. W. Jackson	610,906	Sept. 20	1374	315	84	1742
Clothes-line. Pinless.....	F. N. Renfrow	607,883	July 26	2520	535	84	541
Clothes-line prop.....	P. McClafferty	609,455	Aug. 23	2406	564	84	1171
Clothes-line-prop attachment.....	E. H. Campbell	613,242	Nov. 1	33	8	85	623
Clothes-line prop. Extensible.....	J. W. Wood	608,629	Aug. 9	826	191	84	837
Clothes-line-prop head.....	W. H. B. Miller	607,259	July 12	1175	251	84	242
Clothes-line pulley.....	H. Ecker	602,043	Apr. 5	787	171	83	149
Clothes-line pulley.....	S. S. Fairman	597,765	Jan. 25	2252	524	82	488
Clothes-line reel.....	H. Hübner	606,666	July 5	56	12	84	13
Clothes-line reel.....	F. B. Taylor	616,747	Dec. 27	2867	664	85	2023
Clothes-line support.....	C. Abromeit	597,534	Jan. 18	1858	431	82	395
Clothes-line support.....	J. S. Green	603,633	May 10	723	162	83	757
Clothes-line tightener.....	J. T. Smith	607,892	July 26	2538	538	84	545
Clothes-line window-support.....	J. Gormley	616,784	Dec. 27	2923	679	85	2035
Clothes, &c., on lines. Device for hanging.....	G. W. Price	610,850	Sept. 13	1272	294	84	1706



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Clothes-pin.....	F. S. Graves.....	609,198	Aug. 16	1919	457	84	1055
Clothes-pin.....	H. F. Hawkins.....	598,342	Feb. 1	470	112	82	691
Clothes-pin.....	D. Wilson.....	602,970	Apr. 26	2398	547	83	500
Clothes-pin attachment.....	C. E. Rice.....	613,174	Oct. 25	2777	655	85	579
Clothes-pin. Duplex.....	J. R. Hoit.....	608,986	Aug. 9	1506	356	84	965
Clothes-pin or clamp.....	L. B. Reeds.....	605,207	June 7	279	64	83	1403
Clothes-pin. Wire.....	J. L. Baxter.....	613,023	Oct. 25	2536	603	85	531
Clothes-pin. Wire.....	S. E. Favell.....	605,950	June 21	1680	386	83	1709
Clothes-pin. Wooden.....	F. E. Benton.....	609,261	Aug. 16	2059	488	84	1085
Clothes-pins. Machine for making.....	H. L. Mann.....	610,490	Sept. 6	649	145 146 147	84	1563
Clothes-pounder.....	G. H. Rodenbach.....	613,019	Oct. 25	2530	602	85	530
Clothes-pounder.....	C. A. Snow.....	597,333	Jan. 11	1509	353	82	310
Clothes-pounder.....	A. J. and J. B. Ziegler.....	611,727	Oct. 4	245	59	85	50
Clothes-rack.....	W. S. Downer.....	607,683	July 19	2120	444	84	447
Clothes-rack.....	J. W. McDonald.....	609,116	Aug. 16	1784	424	84	1030
Clothes-rack. Adjustable bracket.....	A. F. Casey.....	612,479	Oct. 18	1568	375	85	325
Clothes-rack for bedsteads.....	J. Manny.....	607,254	July 12	1168	249	84	241
Clothes-rack, ironing-board support, and receptacle. Combined.....	E. C. Grotzpeter.....	611,476	Sept. 27	2461	566	84	1965
Clothes-rack or drier.....	U. P. Tarbox.....	604,437	May 24	2234	501	83	1103
Clothes-reel.....	E. H. Larkin.....	616,676	Dec. 27	2739	636	85	1998
Clothes-stick.....	C. Hameetman.....	607,366	July 12	1366	291	84	281
Clothes-tongs.....	E. B. Stevenson.....	602,484	Apr. 19	1547	351	83	324
Clothes-washer.....	L. B. Brooks.....	610,120	Aug. 30	3575	828	84	1413
Clothes-wringer.....	W. Aab.....	610,882	Sept. 20	1337	306	84	1735
Clothes-wringer.....	C. H. Broich.....	614,219	Nov. 15	1746	401	85	993
Clothes-wringer.....	A. G. Carling.....	614,791	Nov. 22	2796	642	85	1208
Clothes-wringer.....	F. F. Keller.....	599,787	Mar. 1	194	48	82	1252
Clothes-wringer.....	C. Wheeler, Jr.....	599,431	Feb. 22	2381	559 560	82	1112
Clothes-wringer driving mechanism.....	J. W. Banks.....	611,827	Oct. 4	414	98, 99	85	82
Clothing-boiler.....	W. P. Rylander.....	598,011	Jan. 25	2684	626	82	570
Clutch.....	G. E. Anderson.....	611,549	Sept. 27	2588	596 597	84	1991
Clutch.....	S. M. Cutter.....	612,799	Oct. 18	2147	510	85	436
Clutch.....	E. H. Hodgkinson.....	613,766	Nov. 8	973	222	85	822
Clutch.....	E. G. Hoffmann.....	614,951	Nov. 29	3128	717	85	1285
Clutch.....	W. J. Thomas.....	607,531	July 19	1846	384	84	397
Clutch and power-station system. Magnetic.....	B. J. Arnold.....	600,941	Mar. 22	2363	536 537	82	1721
Clutch apparatus.....	L. Mégy.....	613,702	Nov. 8	842	193 194	85	798
Clutch. Drill.....	W. L. Hirlinger.....	613,369	Nov. 1	275	63	85	670
Clutch for elevators, &c. Self-locking.....	C. B. Cox.....	610,857	Sept. 13	1287	297	84	1710
Clutch. Friction.....	F. P. Canfield.....	597,479	Jan. 18	1778	412	82	379
Clutch. Friction.....	G. R. Clarke.....	614,699	Nov. 22	2642	601	85	1172
Clutch. Friction.....	W. J. Elliott.....	608,977	Aug. 9	1484	350 351	84	961
Clutch. Friction.....	S. T. Johnson.....	599,966	Mar. 1	536	122 123	82	1314
Clutch. Friction.....	W. S. Rogers.....	597,434	Jan. 18	1689	391	82	361
Clutch. Friction.....	T. R. Rossiter and D. Noble.....	611,512	Sept. 27	2518	582	84	1977
Clutch. Friction.....	D. V. Sholl.....	600,178	Mar. 8	1057	239	82	1441
Clutch. Friction.....	E. Turney.....	607,557	July 19	1898	392	84	405
Clutch. Friction.....	T. H. Worrall and A. Lesperance.....	606,634	June 28	2966	689	83	1976
Clutch-gear.....	E. Thunderbolt.....	602,568	Apr. 19	1685	383	83	349
Clutch mechanism.....	A. H. Hoyt.....	598,932	Feb. 15	1468	351	82	915
Clutch mechanism.....	G. L. Reenstierna.....	616,729	Dec. 27	2843	658	85	2019
Clutch mechanism. Friction.....	G. S. Binkley.....	596,648	Jan. 4	335	73	82	67
Clutch mechanism. Friction.....	A. L. Skinner.....	609,524	Aug. 23	2528	591	84	1193
Clutch or brake mechanism.....	J. Hadfield.....	613,628	Nov. 1	726	169	85	755
Clutch-sprocket.....	J. H. Bird and G. P. Carroll.....	612,453	Oct. 18	1518	365	85	316
Coal burner. Pulverized.....	G. W. Prescott.....	606,239	June 28	2246	519 520	83	1833
Coal-crusher.....	T. R. Griffith.....	610,136	Aug. 30	3599	836	84	1417
Coal-cutting machine.....	W. E. Garforth.....	613,987	Nov. 8	1342	305	85	894
Coal cutting or mining machine.....	I. Wantling and J. T. Johnson.....	608,240	Aug. 2	123	30	84	678
Coal, &c. Eliminating impurities from.....	E. M. Eidherr.....	613,980	Nov. 8	1331	331	85	892
Coal from slate. Machine for separating.....	D. W. Evans and H. Mathewson.....	597,404	Jan. 18	1637	380 381	82	351
Coal furnace. Powdered.....	W. H. Peck and D. R. W. Patterson.....	613,937	Nov. 8	1256	285 286	85	876
Coal handling and storing device.....	P. B. Bradley.....	616,181	Dec. 20	1799	415 416	85	1794
Coal-handling apparatus.....	R. C. Greenerd.....	609,020	Aug. 16	1587	378	84	995
Coal-handling device.....	A. C. Dinkey.....	599,036	Feb. 15	1659	392	82	953
Coal-hod.....	F. L. Carlton.....	614,931	Nov. 29	3071	705	85	1272
Coal-hod lifter and box or receiver for same.....	A. R. Wilson.....	609,528	Aug. 23	2537	594	84	1195
Coal-pocket.....	J. Simpson.....	609,054	Aug. 16	1657	395	84	1009
Coal-sack.....	J. S. Nickerson.....	616,249	Dec. 20	1928	446	85	1820
Coal-screen.....	W. J. Steen.....	616,271	Dec. 20	1971	458	85	1829
Coat.....	J. Chisholm.....	599,139	Feb. 15	1823	432	82	983
Coat and hat hook.....	E. W. Johnson and E. B. Marsh.....	614,476	Nov. 22	2247	515	85	1101
Coat and vest holder.....	D. W. Axene.....	608,633	Aug. 9	833	192	84	838
Coat-hanger. Safety.....	J. O. Sanford.....	610,372	Sept. 6	448	98	84	1524
Coat-holder.....	C. Benesh.....	612,623	Oct. 18	1833	435	85	376
Coat-hook. Locking.....	J. C. Backus.....	602,296	Apr. 12	1233	271	83	248
Coat. Hunting.....	W. S. Carter.....	605,077	June 7	16	5	83	1356
Coat-lifter.....	J. P. Griffith.....	609,427	Aug. 23	2348	554	84	1160
Coat-pad.....	C. W. Schweichler.....	615,500	Dec. 6	542	124	85	1517
Coat-support.....	J. T. Stevens.....	606,477	June 28	2682	618	83	1921
Coats, hats, &c. Hanger for.....	H. Christianus.....	614,933	Nov. 29	3073	706	85	1272
Coats, hats, &c. Locked holder for.....	W. R. Fowler.....	601,053	Mar. 22	2550	581	82	1757
Coated spindle or roller.....	F. W. Oliver.....	607,453	July 19	1533	326	84	329



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Coating for metal surfaces. Lead	G. H. Clamer	615,663	Dec. 6	825	191	85	1575
Coating metallic sheets. Process of and apparatus for	T. Rees	616,491	Dec. 27	2388	553	85	1932
Coating upon surfaces. Forming integral metallic	E. T. Thomas	610,954	Sept. 20	1454	333	84	1757
Cock	A. Schleidt and W. Pehl	605,018	May 31	3243	745	83	1313
Cock	H. C. Schmidt	612,914	Oct. 25	2368	564	85	496
Cock and waste. Stop-	J. F. Coffey	608,179	Aug. 2	19	5	84	658
Cock Automatic shut-off ball-	T. W. Ryan	603,030	Apr. 26	2495	565	83	518
Cock. Ball-	L. H. Brinkman	598,133	Feb. 1	102	24	82	622
Cock. Ball-	T. R. Gleason	615,386	Dec. 6	320	75	85	1475
Cock. Ball-	A. J. Robinson	609,629	Aug. 23	2745	638	84	1235
Cock. Ball-	H. A. Sedgwick	603,346	May 3	178	41	83	636
Cock. Blow-off	W. McIntosh	603,043	Apr. 26	2510	570	83	521
Cock-box cleaner. Stop-	R. Dittrich	607,350	July 12	1336	285	84	276
Cock box. Stop-	E. J. Chadbourne	613,652	Nov. 1	760	174	85	761
Cock box. Stop-	J. C. Lobdell and A. Talcott	604,622	May 24	2568	585	83	1164
Cock. Draft-	B. Krall	608,874	Aug. 9	1289	301	84	924
Cock. Gage-	F. A. Huett	597,906	Jan. 25	2497	583	82	534
Cock. Gas-	A. W. Tuckerman	602,202	Apr. 12	1071	235	83	216
Cock or faucet	J. F. Cotter and J. Tager	601,634	Apr. 5	18	4	83	6
Cock or tap-valve. Self-closing	E. A. Bolinder	607,210	July 12	1072	232	84	223
Cock or valve. Gas-	A. E. Bocquet	615,243	Dec. 6	20	5	85	1415
Cock replacer. Stop-	H. L. Thomas and W. C. Nusser	607,492	July 19	1783	371	84	385
Cock. Reversible waste-	I. N. Glauber	615,546	Dec. 6	621	141	85	1533
Cock. Right or left stop and waste	L. Ahrens	600,131	Mar. 8	977	218	82	1425
Cock. Rotary-motor valve-	G. Silvestri	609,562	Aug. 23	2594	606	84	1206
Cock. Rotary-plug	W. F. Harrison	601,652	Apr. 5	50	10	83	11
Cock. Rotary-plug	G. E. Martin	597,728	Jan. 25	2191	511	82	476
Cock safety attachment. Gas-	J. F. Smith	604,197	May 17	1785	402	83	997
Cock safety cut-off. Gas-	P. C. Folwell	603,233	Apr. 26	2843	648	83	585
Cock. Safety gas-	J. Dunlop	597,897	Jan. 25	2480	579	82	531
Cock. Safety gas-	E. A. Haney	597,181	Jan. 11	1262	296	82	262
Cock. Safety gas-	R. Scheible	611,762	Oct. 4	292	69	85	60
Cock. Steam-boiler gage-	E. M. Hewson	601,142	Mar. 22	2687	616	82	1783
Cock. Steam or water	R. Thompson	616,086	Dec. 13	1491	349	85	1717
Cock. Stop and waste	M. F. Barrett, J. H. Lyons, and P. J. F. Turnney.	613,052	Oct. 25	2589	614	85	542
Cock. Stop and waste	J. H. Glauber	606,535	June 28	2797	645	83	1944
Cock. Stop and waste	A. L. Lambert	607,865	July 26	2492	528	84	536
Cock. Water-	M. Andriveau	599,158	Feb. 15	1854	439	82	988
Cocoa, tea, &c. Machine for pressing	C. Fickelscheer	612,092	Oct. 11	895	217	85	185
Coffee apparatus	J. G. Van Marter	612,883	Oct. 25	2324	553	85	488
Coffee-berries. Apparatus for roasting	M. F. Hamsley	616,790	Dec. 27	2937	684	85	2037
Coffee-can	P. J. Harris	612,926	Oct. 25	2388	568	85	501
Coffee. Method of and apparatus for roasting	J. W. Pinkerton	598,813	Feb. 8	1260	305	82	859
Coffee-mill	M. Griswold, Jr.	616,614	Dec. 27	2600	603	85	1970
Coffee or spice mill	C. C. Clawson	599,890	Mar. 1	410	91	82	1291
Coffee or tea pot	J. S. Allen	609,073	Aug. 16	1688	402	84	1014
Coffee or tea pot	D. H. Talbert	597,483	Jan. 18	1788	413	82	381
Coffee or tea pot handle	G. Wilhelm and J. F. McGovern	609,527	Aug. 23	2536	594	84	1194
Coffee-pot	D. J. Field	596,965	Jan. 4	889	209	82	173
Coffee-pot	T. S. Hufing	612,419	Oct. 18	1463	353	85	305
Coffee-pot	E. O. Ingle	607,542	July 19	1870	388	84	401
Coffee-pot	E. J. Kohlmeyer	616,241	Dec. 20	1917	444	85	1818
Coffee-pot	W. G. Melvin	599,513	Feb. 22	2526	594	82	1139
Coffee-pot	H. L. Mitchell	603,700	May 10	833	184	83	779
Coffee-pot attachment.	A. I. Sandbo	610,853	Sept. 13	1276	295	84	1707
Coffin raising or lowering device	J. H. Zook	609,070	Aug. 16	1683	401	84	1013
Coffee-roaster	G. Burs	603,551	May 3	569	125	83	711
Coffee-roaster	W. J. and R. L. Davis	602,555	Apr. 19	1664	378	83	345
Coffee-roaster	E. Detwiler	597,397	Jan. 18	1626	378	82	350
Coffee-roaster	W. R. Ramsey	603,923	May 10	1238	281	83	856
Coffee-roasting machine.	E. Crawley, Jr., and W. T. Johnston	615,252	Dec. 6	44	10	85	1420
Coffin	J. Donahue	602,393	Apr. 12	1391	312	83	280
Coffin-fastener	L. L. Fletcher	604,786	May 31	2862	654	83	1239
Coffin-handle brace	A. A. Dekin	597,494	Jan. 18	1804	418	82	384
Coffin-lid fastener	L. L. Fletcher	599,109	Feb. 15	1773	421	82	974
Coffin-lid fastener	C. N. Smith	604,848	May 31	2962	679	83	1258
Coffin-lowering machine	C. T. Fowler	599,669	Feb. 22	2830	658	82	1199
Cog-wheel	H. O'Reilly	616,725	Dec. 27	2837	657	85	2018
Cog wheel. Ball-bearing roller-	F. L. Higgins	598,629	Feb. 8	968	234	82	804
Coin-box for coin-controlled mechanism	S. J. Glass	601,251	Mar. 29	2896	660	82	1850
Coin-controlled apparatus	E. R. Howard	600,314	Mar. 8	1276	291	82	1482
Coin-controlled apparatus	A. M. Lippert	613,163	Oct. 25	2757	649	85	575
Coin-controlled-apparatus guard	C. P. Mayer and J. H. Pomeroy	604,407	May 24	2176	488	83	1092
Coin-controlled machine.	T. J. Conway	612,020	Oct. 11	766	189	85	160
Coin-controlled machine.	H. T. Emeis	597,965	Jan. 25	2596	607	82	554
Coin-controlled machine.	J. G. MacPherson	611,071	Sept. 20	1660	380	84	1796
Coin-controlled machines. Fraud-preventing device for	J. G. W. Romans and A. D. Grover	603,741	May 10	896	199	83	791
Coin-controlled mechanism	H. A. Manley	603,792	May 10	991	221	83	810
Coin-controlled meter	J. Herbert	603,104	Apr. 26	2625	596	83	542
Coin-counter	C. J. Wolf	611,544	Sept. 27	2573	594	84	1988
Coin counter and roller	J. M. Cable	613,408	Nov. 1	358	82	85	684
Coin-delivery apparatus	E. J. Brandt	604,600	May 24	2531	576	83	1157
Coin-displayer	J. P. Cleal	609,411	Aug. 23	2319	577	84	1154



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Coin-freed apparatus	A. E. Box	608,750	Aug. 9	1038	238	84	878
Coin-freed apparatus. Automatic	A. E. T. Dallmer	615,682	Dec. 13	858	197 198	85	1594
Coin-freed automatic-delivery machine	A. Hulme and J. Williams	599,100	Feb. 15	1750	415 416	82	970
Coin-freed automatic machine	E. von Haken	606,008	June 21	1800	414	83	1730
Coin-freed machine	M. Hommel	612,729	Oct. 18	2018	479	85	410
Coin-holder	D. J. Cable	610,959	Sept. 20	1466	335	84	1759
Coin-holder	J. Green	604,315	May 17	2004	449	83	1039
Coin holder or wrapper	J. Pusey	609,947	Aug. 30	3277	764	84	1352
Coin-in-the-slot machine. Amusing and mystifying	T. R. Maguire	607,062	July 12	794	173	84	173
Coin-operated device	G. K. Cheney	609,791	Aug. 30	3005	704	84	1298
Coin-operated device	J. Mason	603,111	Apr. 26	2636	599	83	545
Coin-operated mechanism	J. D. Kneedler	606,463	June 28	2662	613	83	1917
Coin-tester for coin-controlled apparatus	J. H. Volkmann	611,825	Oct. 4	410	98	85	81
Coin-wrapper. Metallic	H. H. and T. S. Hipwell	608,521	Aug. 2	628	141	84	779
Coke-oven door	G. Hilgenstock	601,468	Mar. 29	3288	743	82	1925
Coke-oven. Horizontal	A. Hüssener, L. Holbeck, and J. Kirschfink.	615,709	Dec. 13	898	207 208 209	85	1602
Coke. Process of and apparatus for manufacturing.	J. T. Key	609,150	Aug. 16	1836	435 436	84	1040
Coking and desulfurizing bituminous coal. Apparatus for	J. W. Kenevel	596,753	Jan. 4	530	121 122	82	102
Coking-oven	L. J. Hirt	607,437	July 19	1506	320 321	84	324
Coking-stoker	J. Proctor	607,385	July 12	1405	300	84	288
Colander	E. A. Beach	610,789	Sept. 13	1172	270	84	1685
Collapsible box	H. H. Kinsey	602,290	Apr. 12	1224	270	83	246
Collapsible chair	M. Ruckdeschel and A. Möckel	611,942	Oct. 4	604	147	85	118
Collapsible handle for saucepans, pots, &c.	M. Thompson	613,611	Nov. 1	700	162	85	750
Collapsible stand	D. A. Lindsey	597,854	Jan. 25	2412	562	82	519
Collapsible tube	R. B. Price	614,410	Nov. 15	2117	487	85	1062
Collapsible tube for plastic and liquid materials.	J. S. Taylor	607,530	July 19	1845	383	84	397
Collar	E. K. Betts	598,238	Feb. 1	291	66	82	657
Collar	A. D. Fenwick	606,859	July 5	422	90, 91	84	84
Collar, &c.	A. D. Fenwick. (Reissue)	11,683	July 26	3015	648	84	639
Collar. Adjustable	W. S. G. Baker	614,601	Nov. 22	2464	562	85	1138
Collar-adjuster	V. Greenidge	609,932	Aug. 30	3249	759	84	1347
Collar and cuff	T. R. Weidemann	606,817	July 5	341	72	84	68
Collar and cuff dampening apparatus	F. H. Harriman	615,983	Dec. 13	1386	325 326	85	1695
Collar and cuff edger	G. N. Kramer	607,179	July 12	1019	231	84	214
Collar and cuff turner and edge-polisher	R. N. Martz	610,657	Sept. 13	935	217	84	1638
Collar and hame and fastening therefor	C. E. Berry	610,792	Sept. 13	1177	272	84	1680
Collar and necktie lock	E. A. Normand	613,467	Nov. 1	452	103	85	702
Collar-and-socket machine	C. D. De Forest	608,584	Aug. 9	744	171	84	823
Collar-blanks, &c. Machine for forming and folding	A. D. Fenwick	606,528	June 28	2759	637 638 639 640 641 642 643	83	1937
Collar fastener. Horse-	S. E. Burke	598,075	Feb. 1	12	3	82	605
Collar fastener. Shirt-	C. R. Mullen	599,530	Feb. 22	2555	600	82	1145
Collar folding and shaping machine	A. Farina	602,067	Apr. 12	827	180	83	168
Collar. Horse-	C. Block	609,328	Aug. 16	2173	513	84	1108
Collar. Horse-	E. L. Brundage	599,981	Mar. 1	559	129	82	1319
Collar. Pneumatic horse-	J. E. Richardson	615,747	Dec. 13	965	224	85	1615
Collar-pressing machine	A. T. Hagen and D. M. Cooper	613,268	Nov. 1	75	18	85	631
Collar-shaping machine. Horse-	S. Ross	609,297	Aug. 16	2120	503	84	1096
Collar. Standing	A. D. Fenwick	606,963	July 5	563	124	84	112
Collar stuffer. Horse-	S. H. Randall	615,746	Dec. 13	964	223	85	1615
Collar. Tie-holding	M. B. Kendrick	611,578	Sept. 27	2649	611	84	2002
Collar turning and ironing machine	W. C. Shaw	608,720	Aug. 9	986	227	84	869
Color-distributing apparatus	C. Comstock	609,010	Aug. 16	1565	372 373	84	992
Color specimens to sample-sheets. Apparatus for attaching	C. D. Bradt	596,977	Jan. 11	914	215 216	82	195
Color-value curtain-shutter	F. J. Harrison	599,670	Feb. 22	2831	658	82	1200
Coloring extracts. Making	W. T. Scheele	610,282	Sept. 6	272		84	1494
Colter	E. J. Wing	609,862	Aug. 30	3120	729	84	1322
Colter-band	T. J. Mancill	598,380	Feb. 1	530	129	82	702
Colter-clamp	H. I. Stone	611,655	Oct. 4	111	28	85	25
Colter. Plow	G. J. Bransford	616,450	Dec. 27	2288	534	85	1913
Column	F. A. W. Davis	616,084	Dec. 20	1588	370	85	1752
Column	J. Lally	614,729	Nov. 22	2697	615	85	1183
Column. Metallic	A. Nurick	611,019	Sept. 20	1579	362	84	1781
Column-shoe	J. M. Hoover	611,452	Sept. 27	2415	554	84	1957
Comb:							
See Currycomb.	Warper-comb						
Stripping-comb							
Comb and pen or pencil holder. Combined	E. H. Norton	597,121	Jan. 11	1166	274	82	243
Comb and shears. Combined	O. Christensen and J. M. Jorgensen	598,593	Feb. 8	901	216	82	792
Comb-dabbing mechanism	J. W. Clarkson	609,385	Aug. 16	2264	535	84	1125
Combs. Apparatus for drawing off in circle	A. Long and R. Foster	606,564	June 28	2845	655 656	83	1953
Combing-machine	E. Delette	607,643	July 19	2055	427 428	84	435
Combing-machine	A. Gunerman and G. Schacht	612,334	Oct. 11	1315	317 318	85	263
Combing-machine	A. Wenning and C. H. Gégauff	610,464	Sept. 6	606	135 136	84	1554
Combing-machine frame. Cotton-	J. T. Meats	616,794	Dec. 27	2945	686	85	2039



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Combing-machine stop mechanism	J. Denby	604,856	May 31	2984	683	83	1262
Combing machine. Wool-	J. Delattre	613,410	Nov. 1	361	684	85	684
Combing machine. Wool-	E. Lodge	597,361	Jan. 11	1558	363	82	320
Combination-lock	I. H. Cleveland	605,271	June 7	410	92	83	1430
Combination-lock	J. T. Eldridge	597,712	Jan. 25	2165	506	82	471
Combination-lock	C. F. Hill	605,787	June 14	1341	306	83	1627
Combination-lock	H. G. Johnson	613,280	Nov. 1	103	24	85	636
Combination-lock	J. W. Miner	613,585	Nov. 1	654	151	85	740
Combination-lock	J. Reuterberg	605,514	June 14	831	193	83	1533
Combination-lock	W. H. Taylor	600,900	Mar. 22	2296	523	82	1708
Combination-lock	L. C. Thompson	602,114	Apr. 12	908	197	83	184
Combination-wrench.	C. Bickel	598,897	Feb. 15	1402	338	82	902
Combination-wrench.	O. M. Miller	598,528	Feb. 8	791	190	82	769
Comminuted materials. Apparatus for handling	E. F. Dyer	604,141	May 17	1674	376	83	974
Commode	A. M. Bell	597,381	Jan. 18	1598	371	82	345
Commode-chair	B. M. Beall	601,312	Mar. 29	3093	683	82	1876
Commutator	J. R. Grindrod	614,462	Nov. 22	2212	509	85	1094
Commutator	W. B. Potter	608,299	Aug. 2	223	52	84	699
Commutator air-blast driving-shaft	A. Wiedenbauer	596,928	Jan. 4	820	195	82	160
Commutator-brush holder	W. K. Bassford, Jr	610,620	Sept. 13	879	202	84	1626
Commutator-brush holder	W. B. Stull	604,220	May 17	1824	409	83	1004
Commutator-brush holder for dynamo-electric machines.	R. Lundell	608,135	July 26	2957	635	84	629
Commutators of dynamos or motors. Device for turning off	W. H. Jordan	603,061	Apr. 26	2539	577	83	526
Compass indicator. Ship's-	W. W. Snowman	616,428	Dec. 20	2253	525	85	1885
Compass. Marine recording-	B. Heinrich and C. Wood	597,166	Jan. 11	1239	291	82	257
Compass. Ship's	R. Oliver	609,363	Aug. 16	2230	527	84	1119
Compasses, &c. Joint for	F. H. Heath	610,354	Sept. 6	410	87	84	1518
Composing characters and producing photographic negatives therefrom. Means for	W. Friese-Greene	602,439	Apr. 19	1469	334	83	309
Composing-machine	G. A. Goodson	609,097	Aug. 16	1726	411	84	1021
Composing-machine. Monoline	W. S. Scudder	605,141	June 7	136	34	83	1377
Composing-machines. Differential letter-space register for	G. A. Goodson	605,957	June 21	1703	390	83	1713
Composite pipe	E. I. Braddock	610,224	Sept. 6	155	35	84	1473
Compound engine with regulator for superheated steam.	W. Schmidt	615,311	Dec. 6	155	41	85	1443
Compound lock	W. F. Herdrich	613,629	Nov. 1	728	169	85	755
Compressible tube	T. Y. Kinne and A. Gartner	610,355	Sept. 6	411	88	84	1519
Compress. Roller	J. R. Fordyce	616,777	Dec. 27	2910	676	85	2032
Compressed-air mechanism for vehicles or other devices.	F. Schumacher	601,285	Mar. 29	2977	677	82	1866
Compresses. Bagging attachment for roller-	D. C. Ball	602,150	Apr. 12	979	214	83	196
Compressor	J. Stumpf	600,626	Mar. 15	1829	215	82	1606
Compressor or blowing-engine	A. H. Helander and C. O. Lindroth	616,667	Dec. 27	2720	632	85	1993
Computator. Tax-bill	J. M. Pope	614,274	Nov. 15	1861	430	85	1013
Computing-machine	J. Perfler and A. Schneider	613,395	Nov. 1	323	74	85	678
Computing-machine	C. H. Weber	599,989	Mar. 1	570	131	82	1321
Concentrate-receiver	J. C. and R. C. Waters	614,355	Nov. 15	2014	132	85	1043
Concentrator	J. Mait	610,764	Sept. 13	1118	465	84	1674
Concentrator and amalgamator. Combined reciprocating	R. Taylor	598,543	Feb. 8	812	255	82	774
Concentrator and distributor	J. H. Rae	616,140	Dec. 20	1714	129	85	1775
Concentrator. Pneumatic	A. M. Randolph	614,501	Nov. 22	2287	398	85	1107
Concrete conduits. Apparatus for molding	G. M. Graham	596,586	Jan. 4	220	524	82	44
Concrete curb and gutter work	H. H. Wainwright	614,587	Nov. 22	2430	48, 49	85	1133
Concrete-mixing machine	W. C. Barr	615,519	Dec. 6	566	554	85	1521
Condenser	A. P. Dodge	611,358	Sept. 27	2229	129	84	1923
Condenser	A. P. Dodge	616,087	Dec. 20	1597	130	85	1754
Condenser	C. S. Forbes	604,823	May 31	2918	515	83	1250
Condenser	A. Hoberecht	596,876	Jan. 4	734	668	82	143
Condenser	L. Schutte	615,914	Dec. 13	1249	172	85	1669
Condenser, distiller, and feed-water heater	H. W. Hand	596,874	Jan. 4	732	293	82	143
Condenser. Surface	R. A. Sprouls	609,243	Aug. 16	2018	171	84	1077
Condenser tubes. Apparatus for cleaning inside of surface	T. Saunders	614,625	Nov. 22	2506	479	85	1146
Condensing apparatus. Steam-	T. R. Murray	614,332	Nov. 15	1969	572	85	1034
Condensing-engine. Compound	J. S. Briggs	598,357	Feb. 1	491	455	82	694
Condensing fumes, vapors, &c. Apparatus for	A. E. Griffiths	596,996	Jan. 11	948	118	82	201
Conductor safety device. Suspended-	J. N. Thomas	613,177	Oct. 25	2781	225	85	580
Conduit	L. Skaife	600,935	Mar. 22	2356	656	82	1720
Conduit. Flexible metallic tube-	C. Husham	607,932	July 26	2610	534	84	558
Conduit. Interior	E. E. and F. W. Erickson	607,989	July 26	2704	577	84	576



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Conduit lining. Interior.....	S. Bergmann.....	603,230	Apr. 26	2836	647	83	584
Conduit-wiring machine.....	W. E. Cowan.....	603,623	May 10	703	157	83	753
Confection-dipping tray.....	L. J. Anger.....	611,987	Oct. 4	678	165	85	133
Confectioner's kettle.....	C. S. Rider.....	599,047	Feb. 15	1671	395	82	956
Confectioner's molding-machine.....	J. S. Crowell.....	601,886	Apr. 5	509	105	83	96
Confectioner's separating and filling machine.....	A. Heine and G. S. Mack.....	609,583	Aug. 23	2631	615 616	84	1213
Confectionery-machine.....	G. Carlson and G. S. Baker.....	598,592	Feb. 8	898	215 216	82	791
Connection.....	W. H. Burnett.....	600,961	Mar. 22	2393	545	82	1727
Connector.....	F. E. Case.....	613,663	Nov. 8	777	177	85	785
Consecutive-view apparatus.....	H. Casler.....	597,759	Jan. 25	2243	521 522	82	486
Consecutive-view apparatus.....	H. Casler.....	611,591	Sept. 27	2678	618 619	84	2006
Consecutive-view apparatus.....	H. Casler.....	614,366	Nov. 15	2029	468 469	85	1046
Consecutive-view apparatus.....	H. N. Marvin.....	614,738	Nov. 22	2709	617	85	1185
Contact-finger for controllers or electric switches.....	T. von Zweigbergk.....	611,087	Sept. 20	1698	391	84	1803
Contents of vessels beneath the surface of liquid therein contained. Device for keeping	A. and A. Schenck.....	615,754	Dec. 13	977	227	85	1617
Contribution-boxes. Device for collecting contents of	G. Fuchs.....	604,527	May 24	2400	546	83	1131
Controller.....	W. M. Jewell.....	598,935	Feb. 15	1475	352	82	916
Controller.....	T. von Zweigbergk.....	605,304	June 7	473	106	83	1441
Controller.....	T. von Zweigbergk.....	607,672	July 19	2107	440	84	444
Controller.....	T. von Zweigbergk.....	611,090	Sept. 20	1708	392 393	84	1805
Controlling device.....	K. A. B. D. Kottgen.....	610,064	Aug. 30	3488	808	84	1394
Converter.....	T. Levoz.....	613,820	Nov. 8	1072	243	85	840
Convertible chair.....	J. A. Crandall.....	612,988	Oct. 25	2482	591 592	85	520
Convertible chair.....	J. Kluentner.....	597,581	Jan. 18	1938	451	82	412
Convertible chair.....	H. H. Paine.....	604,941	May 31	3120	717	83	1290
Convertible chair.....	E. L. Thompson.....	612,792	Oct. 18	2139	508	85	434
Conveyer.....	A. M. Acklin.....	605,621	June 14	1041	239	83	1570
Conveyer.....	T. A. Edison.....	602,064	Apr. 12	822	178	83	167
Conveyer.....	H. F. Hodges.....	604,828	May 31	2927	669	83	1252
Conveyer.....	G. B. Krug.....	597,376	Jan. 11	1591	369	82	327
Conveyer.....	F. F. Landis.....	611,383	Sept. 27	2288	528	84	1933
Conveyer.....	F. H. Richards.....	616,688	Dec. 27	2759	641 642 643	85	2001
Conveyer.....	A. H. Richner.....	615,748	Dec. 13	966	224	85	1615
Conveyer.....	F. R. Willson, Jr.....	612,939	Oct. 25	2405	573	85	505
Conveyer. Belt.....	A. J. and J. P. Mason.....	614,306	Nov. 15	1909	441	85	1023
Conveyer. Bucket.....	A. J. Frith.....	597,844	Jan. 25	2398	558	82	516
Conveyer. Endless.....	J. Dick.....	614,847	Nov. 29	2917	669	85	1241
Conveyer. Endless-chain.....	W. F. Hunt.....	604,234	May 17	1843	413	83	1008
Conveyer-flight and apparatus for making same. Spiral	F. C. Caldwell.....	601,429	Mar. 29	3222	726 727	82	1912
Conveyer. Pneumatic.....	J. Dick.....	614,295	Nov. 15	1893	437	85	1019
Conveyer. Traveling.....	F. H. Foote and A. M. Dahl.....	599,896	Mar. 1	424	93, 94	82	1293
Conveying and hoisting apparatus.....	J. F. Ward.....	614,044	Nov. 8	1425	327	85	911
Conveying apparatus.....	L. D. Castle.....	597,837	Jan. 25	2388	556	82	514
Conveying apparatus.....	L. D. Castle.....	597,838	Jan. 25	2390	556	82	515
Conveying apparatus.....	J. T. Cowley.....	608,576	Aug. 9	723	165	84	819
Conveying apparatus.....	J. T. Cowley.....	608,577	Aug. 9	724	166 167	84	819
Conveying apparatus.....	J. T. Cowley.....	608,578	Aug. 9	728	167	84	820
Conveying apparatus.....	J. T. Cowley.....	608,579	Aug. 9	730	168	84	820
Conveying apparatus.....	J. T. Cowley.....	608,580	Aug. 9	733	168	84	821
Conveying apparatus.....	J. T. Cowley.....	608,581	Aug. 9	735	168 169	84	821
Conveying apparatus.....	F. B. Knight.....	602,085	Apr. 12	854	186	83	174
Conveying apparatus.....	A. S. Krotz.....	603,607	May 3	669	149 150	83	731
Conveying apparatus.....	T. S. Miller.....	601,756	Apr. 5	256	50, 51	83	49
Conveying apparatus.....	G. F. Newell.....	600,373	Mar. 8	1371	313 147	82	1501
Conveying system. Electric.....	A. S. Krotz.....	603,606	May 3	661	148 149	83	730
Cooker. Dry vacuum-.....	H. A. Wolff.....	603,546	May 3	561	124	83	709
Cooker. Feed-.....	D. Ford.....	615,836	Dec. 13	1123	263	85	1645
Cooker. Heat-retaining starch-.....	J. E. Dann.....	611,061	Sept. 20	1645	376	84	1793
Cooker. Steam-.....	L. F. Culver.....	601,501	Mar. 29	3346	757 758	82	1937
Cooker. Steam-.....	M. Foerg.....	616,095	Dec. 20	1615	378	85	1759
Cooker. Steam-.....	D. Mayer.....	599,512	Feb. 22	2526	594	82	1139
Cooker. Steam-.....	M. A. Swaim.....	607,776	July 19	2275	480	84	476
Cooker. Steam-.....	W. J. Thompson.....	608,806	Aug. 9	1147	266	84	898
Cookers. Heating feed-.....	J. Caldon.....	600,512	Mar. 15	1643	375	82	1572
Cooking and can-filling machine. Corn-.....	F. W. Smith.....	607,806	July 19	2352	497	84	491
Cooking and pressing apparatus.....	J. F. Bussells.....	604,348	May 17	2073	464	83	1052
Cooking apparatus.....	G. D. Fox.....	602,317	Apr. 12	1265	279	83	255
Cooking apparatus.....	H. P. A. Nielsen.....	607,268	July 12	1192	255	84	246
Cooking apparatus. Electrical.....	J. B. Cary.....	608,952	Aug. 9	1441	341	84	952
Cooking apparatus for canneries. Automatic.....	F. A. Dixon.....	607,656	July 19	2083	435	84	439
Cooking apparatus. Steam.....	A. Fehn.....	600,362	Mar. 8	1355	310	82	1498
Cooking attachment.....	G. W. Bailey.....	600,398	Mar. 8	1412	323	82	1509
Cooking-boiler.....	J. Mulligan.....	607,384	July 12	1404	300	84	288
Cooking, drying, or sterilizing by steam.....	H. Higgins.....	597,978	Jan. 25	2628	614	82	560
Cooking or baking pies, &c. Apparatus for.....	T. F. and J. H. Braime.....	613,752	Nov. 8	952	218	85	818
Cooking or heating utensil.....	L. Brainard.....	611,955	Oct. 4	625	152	85	122
Cooking utensil.....	A. L. Bliss.....	597,535	Jan. 18	1859	431	82	395
Cooking utensil.....	M. F. Brown.....	615,957	Dec. 13	1345	314	85	1687



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cooking utensil .....	A. F. Humphrey .....	606,552	June 28	2824	650	83	1949
Cooking utensil .....	S. Kaufmann .....	608,868	Aug. 9	1280	299	84	922
Cooking utensil .....	B. Loery .....	597,217	Jan. 11	1321	308	82	272
Cooking utensil. Odorless .....	W. S. Truex .....	609,480	Aug. 23	2464	575	84	1181
Cooking utensil. Portable .....	A. Westheimer .....	608,738	Aug. 9	1019	234	84	874
Cooking-utensil supporter .....	L. D. Craig .....	611,376	Sept. 27	2272	525	84	1931
Cooking vessel .....	A. Berchtold .....	609,569	Aug. 23	2606	609	84	1208
Cooler:							
See Beverage-cooler.      Pie or cake cooler.							
Journal-cooler.          Soda-fountain cooler.							
Liquid-cooler.          Twyer-cooler.							
Milk-cooler.            Water-cooler.							
Cooling and sealing .....	J. Sedlacek .....	604,162	May 17	1714	386	83	982
Cooling apparatus for air-tanks .....	E. Sheridan .....	609,053	Aug. 16	1656	395	84	1008
Cooling cream, &c. Apparatus for .....	A. D. Hill .....	596,679	Jan. 4	390	88	82	78
Cooling-plate .....	W. Rothhoff .....	608,079	July 26	2871	614	84	612
Cooling vessel .....	H. J. Reynolds .....	603,239	Apr. 26	2851	650	83	586
Coop and trap. Combined folding .....	W. A. Neal .....	608,705	Aug. 9	963	222	84	865
Coop. Chicken .....	W. A. Douglass .....	597,214	Jan. 11	1316	307	82	271
Coop. Folding chicken .....	G. W. Robinson and L. Stelzer .....	610,610	Sept. 13	864	198	84	1023
Coop. Folding chicken .....	G. C. Speckard .....	596,723	Jan. 4	476	109	82	92
Coop for poultry, &c. Folding .....	C. Hoskins .....	611,753	Oct. 4	280	67	85	57
Coop. Poultry .....	L. Deveau .....	609,612	Aug. 23	2704	630	84	1226
Cop .....	S. W. Wardwell, Jr. ....	607,202	July 12	1058	229	84	221
Copies of manuscript. Machine for multiplying .....	E. Steiger .....	604,849	May 31	2964	679	83	1258
Copy-holder .....	J. A. Boehler .....	599,889	Mar. 1	407	90, 91	82	1290
Copy-holder .....	J. S. Dudley .....	599,772	Mar. 1	171	42	82	1248
Copy-holder .....	J. M. Lloyd .....	600,922	Mar. 22	2331	530	82	1715
Copy-holder .....	E. E. Paxton .....	598,809	Feb. 8	1254	303	82	857
Copy-holder .....	S. Stewart .....	614,515	Nov. 22	2307	528	85	1110
Copy-holder .....	J. C. I. Wilson .....	598,689	Feb. 8	1073	259	82	823
Copying-press .....	A. A. Aikin .....	609,397	Aug. 23	2298	543	84	1150
Copying-press .....	G. F. Ballou .....	612,391	Oct. 18	1412	341	85	296
Copying-press .....	G. F. Ballou .....	612,392	Oct. 18	1414	341	85	296
Copying-press .....	C. P. Bell .....	609,606	Aug. 23	2675	624	84	1220
Copying-press .....	A. B. Dick .....	612,408	Oct. 18	1443	348	85	302
Copying-press .....	J. M. Moore .....	602,414	Apr. 12	1425	322	83	287
Copying-press .....	O. J. Taeuber .....	616,745	Dec. 27	2862	663	85	2023
Copying, registering, checking, and adding appa- ratus. ....	J. Frydmane .....	604,977	May 31	3170	730	83	1299
Copper mat. Treating .....	J. Colquhoun .....	604,023	May 17	1458	327	83	934
Cord-cutter .....	J. Pusey .....	601,278	Mar. 29	2967	671	82	1865
Cord-knotting device .....	H. E. Pridmore .....	604,337	May 17	2050	459	83	1047
Cord or rope. Ornamental .....	F. W. Oehrle .....	599,191	Feb. 15	1906	451	82	997
Cord or tape. Stiffening .....	E. K. Warren and J. H. Holden .....	616,645	Dec. 27	2669	619	85	1948
Core-bar .....	T. Keenan .....	614,958	Nov. 29	3136	719	85	1286
Core-barrel. Collapsible .....	T. E. Morris .....	613,524	Nov. 1	559	127	85	722
Cork-cutting machine .....	J. Jonson .....	601,892	Apr. 5	516	107	83	97
Cork-cutting machine .....	C. Noël .....	605,297	June 7	459	102	83	1439
Cork-cutting machine .....	H. Weinz .....	604,705	May 24	2722	622	83	1193
Cork-extractor .....	G. S. Foster .....	602,503	Apr. 19	1573	359	83	329
Cork-extractor .....	C. F. Phillips .....	601,380	Mar. 29	3133	708	82	1896
Cork-extractor .....	W. A. Williamson .....	615,938	Dec. 13	1309	305	85	1679
Cork-protector .....	C. W. Mackey .....	601,776	Apr. 5	294	58	83	56
Cork-puller .....	F. L. Johnson .....	600,424	Mar. 8	1455	332	82	1516
Cork-pulling machine .....	J. E. Hawkins .....	603,950	May 10	1278	291	83	865
Corks. Method of and apparatus for saturating .....	J. Schneible .....	599,798	Mar. 1	209	52	82	1255
Corking-machine .....	C. Armstrong and F. J. Knights .....	613,789	Nov. 8	1010	230	85	829
Corking-machine .....	A. Dollfus .....	602,837	Apr. 26	2167	491	83	456
Corkscrew .....	A. Stiles .....	613,176	Oct. 25	2780	655	85	580
Corkscrew .....	E. Walker .....	611,046	Sept. 20	1618	370	84	1788
Corkscrew. Pocket .....	E. Hammesfahr .....	610,530	Sept. 13	726	164	84	1595
Corn-binder bundle-carrier .....	J. W. Pridmore and E. A. Johnston .....	606,579	June 28	2871	661	83	1958
Corn-conveyer .....	F. Gahn .....	613,762	Nov. 8	968	222	85	821
Corn-cutter .....	W. Rowland .....	604,793	May 31	2874	656	83	1242
Corn cutter and shocker .....	A. J. Cropp .....	607,112	July 12	895	194	84	192
Corn cutter. Green .....	H. J. B. Gravier .....	607,363	July 12	1359	290	84	280
Corn-drill. Lister .....	J. A. Patterson .....	613,525	Nov. 1	560	127	85	722
Corn-guide .....	J. Zimmermann .....	615,514	Dec. 6	561	128	85	1520
Corn-header .....	C. E. Ecklund .....	605,635	June 14	1062	244	83	1575
Corn-header .....	W. A. Wilson .....	603,934	May 10	1256	285	83	861
Corn header. Kafir .....	J. B., J. B., and L. F. Tilley .....	601,764	Apr. 5	275	54	83	53
Corn-husker .....	J. M. Carlisle .....	601,944	Apr. 5	638	133	83	120
Corn-husker .....	G. S. Gundersen .....	604,528	May 24	2403	547	83	1132
Corn-husker .....	I. Korn .....	610,713	Sept. 13	1030	238	84	1658
Corn-husker. Adjustable .....	W. F. Lillie .....	604,476	May 24	2312	525	83	1117
Corn-husking implement .....	L. F. Rife .....	608,303	Aug. 2	233	53	84	701
Corn-husking machine .....	G. S. Gundersen .....	603,844	May 10	1097	246	83	829
Corn-husking machine .....	G. S. Gundersen .....	603,845	May 10	1098	246	83	829
Corn-husking machine .....	L. W. Stevens and L. D. Swart .....	596,918	Jan. 4	801	190	82	156
Corn-husking-machine feeder .....	W. Gutenkunst .....	614,859	Nov. 29	2938	674	85	1245
Corn-husking-machine self-feeder .....	L. D. Swart .....	596,921	Jan. 4	807	191	82	158
Corn-knife .....	E. D. Woods .....	614,920	Nov. 29	3045	698	85	1266



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Corn masher and cutter	J. Ebersole	605,704	June 14	1184	273	83	1598
Corn or bunion plaster	H. H. T. Bennett	615,240	Dec. 6	15	3	85	1414
Corn or seed dropper	G. R. Dykes	604,738	May 31	2786	638	83	1224
Corn-popper	T. G. McWithey	609,160	Aug. 16	1854	411	84	1043
Corn-popping apparatus	R. O. Stutsman	605,617	June 14	1021	235	83	1567
Corn-sheller	J. Q. Adams	599,759	Mar. 1	151	36	82	1244
Corn sheller	J. M. Allen and G. W. Bearden	599,582	Feb. 22	2654	621	82	1164
Corn-sheller	F. B. Tait	605,934	June 21	1646	378	83	1703
Corn-sheller conveyer	J. H. Gilman	599,500	Feb. 22	2507	591	82	1135
Corn-sheller feeder	W. C. Rowe	606,740	July 5	183	41	84	37
Corn-shellers. Oat-clipping attachment for	J. Donovan	611,807	Oct. 4	370	89	85	74
Corn-shield	E. Pierrepont	607,950	July 26	2639	560	84	563
Corn-shock compressor	H. Van Pelt	603,582	May 3	610	136	83	719
Corn-shocker	W. C. Crowe	597,710	Jan. 25	2162	506	82	470
Corn-shredder	F. Hagen	613,676	Nov. 8	793	182	85	789
Cornstalks. Means for extracting pith or cellulose from	F. T. Wright	608,630	Aug. 9	827	191	84	837
Corn stripping and husking mechanism	A. Steiner	606,824	July 5	349	74, 75	84	70
Corner-locking machine	J. H. Pickett	612,119	Oct. 11	941	227, 228	85	194
Corner-plate	H. Liebreich	599,395	Feb. 22	2300	543	82	1096
Corner-staying machine	H. A. Inman	599,563	Feb. 22	2618	614	82	1157
Corner-strip	F. Woods	613,103	Oct. 25	2669	631	85	557
Corner-strip anchor-plate	F. A. Mitchell	599,343	Feb. 22	2191	520	82	1073
Cornice-bracket	J. B. Engstrom and J. R. Nix	597,967	Jan. 25	2602	609	82	555
Cornice-brakes. Lock-fold attachment for	G. C. Keene	601,303	Mar. 29	3013	679	82	1873
Cornice for rolling shutters	J. G. Wilson	596,929	Jan. 4	821	195	82	160
Cornice-pole	J. W. and G. L. Watson	601,453	Mar. 29	3265	738	82	1520
Cornish boiler	H. Thomassen and J. Krop	605,149	June 7	169	42	83	1383
Corpses. Means for preserving	P. E. Hommell	614,108	Nov. 15	1545	354	85	955
Corrugated can. Vertically	J. C. Milligan	616,246	Dec. 20	1925	446	85	1820
Corset	J. C. Andrews	613,105	Oct. 25	2671	631	85	558
Corset	O. M. Chesney	598,361	Feb. 1	504	121	82	697
Corset	W. B. H. Dowse	607,023	July 12	695	151	84	157
Corset	J. A. Garneau	603,843	May 10	1095	245	83	829
Corset	T. S. Gilbert	611,116	Sept. 20	1760	403	84	1815
Corset	E. E. Howe	609,434	Aug. 23	2355	555	84	1162
Corset	D. Kops	610,063	Aug. 30	3487	808	84	1394
Corset	M. Lyons	615,029	Nov. 29	3267	750	85	1310
Corset	M. C. Mayer	606,169	June 21	2098	482	83	1786
Corset	C. D. Sapiro	609,591	Aug. 23	2647	619	84	1215
Corset	J. Siegel	616,150	Dec. 20	1729	401	85	1779
Corset	M. Stonebridge	614,631	Nov. 22	2521	574	85	1149
Corset	L. S. Walker	601,722	Apr. 5	194	38	83	38
Corset and fastening therefor	J. M. Steinhardt	616,503	Dec. 27	2415	559	85	1937
Corset attachment	E. Young	611,163	Sept. 20	1843	425	84	1831
Corset. Bustle	D. Kops	611,068	Sept. 20	1654	378	84	1795
Corset-buttoner	M. Perez	598,743	Feb. 8	1159	278	82	839
Corset-clamp	P. J. Menahan	597,685	Jan. 18	2115	495	82	444
Corset-clasp	J. A. Fitzgerald	610,480	Sept. 6	632	142	84	1560
Corset-clasp	W. W. Lasker	597,584	Jan. 18	1943	452	82	413
Corset-cover	I. N. Fooks	614,650	Nov. 22	2549	581	85	1155
Corset-fastening	W. B. H. Dowse	607,022	July 12	694	150	84	157
Corset-fitting attachment	E. Pearl	609,044	Aug. 16	1641	391	84	1005
Corset-retainer and stocking-supporter. Combined	N. M. Lennon	606,064	June 21	1904	438	83	1749
Corset-shield	M. L. Perrottet	605,299	June 7	464	104	83	1440
Corset-steel	M. E. McCloskey Playter	601,734	Apr. 5	218	43	83	42
Corset-steel reinforce	R. M. Oursler	600,551	Mar. 15	1714	392	82	1586
Corset-stiffener	W. Kerkenbusch	599,042	Feb. 15	1666	394	82	955
Corset-waist	G. A. Schneebeli	607,639	July 19	2047	425	84	434
Corsets, &c. Stay and lacing for	W. R. Mestler	601,446	Mar. 29	3255	736	82	1918
Corundum-cleaning machine	W. M. Hoffman	600,003	Mar. 1	592	136	82	1325
Cot	R. F. Crooks	598,698	Feb. 8	1088	262	82	826
Cot	G. B. Meadows	614,566	Nov. 22	2389	546	85	1127
Cot. Folding	C. F. Moore	606,355	June 28	2470	573	83	1878
Cot, hammock, and stretcher. Combined	C. V. Richey	615,907	Dec. 13	1235	289	85	1666
Cot or bedstead. Folding	E. H. Rimmelin	607,607	July 19	1986	412	84	421
Cot. Swinging	J. H. Benning	600,116	Mar. 1	898	206	82	1390
Cotton-chopper	A. Hillermann and C. Heinen	615,175	Nov. 29	3538	814	85	1362
Cotton-chopper	F. McCullough	603,963	May 10	1297	296	83	869
Cotton-chopper	C. Zimmer	609,382	Aug. 16	2256	534	84	1124
Cotton chopper and cultivator	A. Abramson	616,388	Dec. 20	2180	509	85	1870
Cotton chopper and cultivator	J. J. Holland	605,426	June 7	703	157	83	1488
Cotton cleaner and condenser. Lint	H. W. Southworth	597,751	Jan. 25	2227	518	82	484
Cotton cleaner. Seed	E. Hart	613,993	Nov. 8	1350	307, 308	85	895
Cotton-cleaning and mattress-stuffing machine	C. W. White	599,049	Feb. 15	1674	396	82	956
Cotton-cleaning mechanism. Seed	M. Swenson	599,575	Feb. 22	2642	619	82	1161
Cotton-collecting apparatus	C. J. Luce	603,697	May 10	831	184	83	778
Cotton distributor and cleaner. Seed	F. Walla	610,667	Sept. 13	948	220	84	1640
Cotton distributor and feeder. Seed	C. M. Simington	601,174	Mar. 22	2746	631	82	1794
Cotton elevator and distributor. Automatic	H. J. Wheeler	610,293	Sept. 6	294	64	84	1499
Cotton elevator, cleaner, and feeder	J. W. Seifert	604,426	May 24	2213	495	83	1100
Cotton fabrics. Apparatus for applying finishing substances to	C. H. Jacob	605,434	June 7	713	159, 160	83	1490
Cotton for ginning and baling. Apparatus for cleaning and preparing	C. Van Orden	599,272	Feb. 15	2034	482	82	1022
Cotton from gins. Apparatus for conveying lint	J. R. Fordyce	611,360	Sept. 27	2235	516, 517	84	1924
Cotton-gin	W. H. Baskin	616,761	Dec. 27	2884	668	85	2027
Cotton-gin	T. B. Lee	600,287	Mar. 8	1238	281, 282	82	1476
Cotton-gin	M. Swenson	608,729	Aug. 9	1001	229, 230	84	871
Cotton-gin. Multiple	T. F. Hutchinson	616,466	Dec. 27	2327	542, 543	85	1920



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cotton-gin. Roller	F. L. Montgomery	597,999	Jan. 25	2662	621 622	82	566
Cotton-gin-roller covering	E. L. Peterson	615,103	Nov. 29	3412	782	85	1336
Cotton-handling machine. Pneumatic	J. T. Fuller	604,037	May 17	1477	331	83	937
Cotton-opener	J. O'Connell	602,265	Apr. 12	1173	258	83	236
Cotton-picker	C. Duvall	613,028	Oct. 25	2541	604 605	85	532
Cotton-picking machine	A. A. Hamerschlag and T. H. Price	602,076	Apr. 12	844	183 184	83	171
Cotton-press	W. E. Anderson	604,012	May 17	1433	321 322	83	929
Cotton-press	F. L. Dyer	603,784	May 10	974	217	83	806
Cotton-press	F. L. Dyer	604,028	May 17	1464	328	83	935
Cotton-press	F. L. Dyer	604,029	May 17	1467	329	83	936
Cotton-press	J. W. Graves	608,667	Aug. 9	899	205 206	84	852
Cotton-press	J. W. Graves	608,668	Aug. 9	903	206 207	84	853
Cotton-press	J. W. Graves	608,669	Aug. 9	906	207 208	84	854
Cotton-press	J. W. Graves	608,982	Aug. 9	1495	354 355	84	963
Cotton-press	C. E. Mallett	607,063	July 12	796	173 174	84	173
Cotton-press	W. R. Mason	616,341	Dec. 20	2091	487	85	1852
Cotton-press	M. Swenson	614,186	Nov. 15	1681	387	85	991
Cotton-thinner	R. J. Gatling	603,271	May 3	50	13	83	610
Couch. Convertible	J. Geddes	606,133	June 21	2034	466	83	1774
Couch or lounge	A. L. Pace and J. P. Carpenter	600,018	Mar. 1	627	142 143	82	1333
Couch-seat	J. B. Gardiner	605,095	June 7	50	16	83	1362
Couches. Spring-leg for	E. M. Hulse	599,333	Feb. 22	2170	515	82	1069
Counter	J. F. McNutt	601,879	Apr. 5	500	103	83	94
Counter-battery	W. Meyer	609,994	Aug. 30	3377	784	84	1372
Counter-cutting machine	D. L. Chandler	606,375	June 28	2501	581 582	83	1884
Counter-irritation instrument	W. H. Lockerby	599,714	Mar. 1	68	15	82	1229
Counter. Score	H. De Wallace	608,586	Aug. 9	748	172	84	824
Counter-seat	J. P. Prentiss	597,739	Jan. 25	2204	514	82	479
Countersinker	C. Dumaw, Jr	605,407	June 7	675	150	83	1482
Countersinking machine. Dovetail	G. A. Huben	599,655	Feb. 22	2806	652	82	1195
Counting attachment for rotary cutters	C. H. Remington	609,296	Aug. 16	2119	502	84	1096
Counting-machine	W. C. Porter	596,665	Jan. 4	365	81	82	72
Coupling:							
See Air-brake coupling.	Pitman-coupling.						
Air and steam brake coupling.	Pole-coupling.						
Bicycle-coupling.	Rope-coupling.						
Car-coupling.	Safety-coupling.						
Car and air-brake coupling.	Self-locking coupling.						
Carriage-coupling.	Shaft-coupling.						
Electric coupling.	Shaft or pole coupling.						
Engine-coupling.	Shaft or tongue coupling.						
Hammock-support coupling.	Stovepipe-coupling.						
Harness-strap coupling.	Stovepipe or other coupling.						
Hose-coupling.	Thill-coupling.						
Insulated pipe-coupling.	Thill or pole coupling.						
Locomotive-tender coupling.	Thill or tongue coupling.						
Pipe-coupling.	Tire-coupling.						
Pipe and hose coupling.	Trip-coupling.						
Pipe flange coupling.	Tube-coupling.						
Pipe or tube coupling.	Valve-coupling.						
Yoke-coupling.	Vehicle-coupling.						
Vehicle reach-coupling.	Wagon-coupling.						
Whiffletree coupling.							
Yoke-coupling.							
Coupling	T. C. Edwards	596,490	Jan. 4	42	10	82	11
Coupling	F. R. Emmitt	609,738	Aug. 23	2911	681 682	84	1267
Coupling	E. Hayes	600,988	Mar. 22	2439	557	82	1735
Coupling	W. N. Long	609,283	Aug. 16	2100	497	84	1092
Coupling	F. Rhind	604,790	May 31	2871	656	83	1241
Coupling-closure	J. Muhr	605,323	June 7	503	112	83	1448
Coupling-pins. Mechanism for supporting	G. K. Hamfeldt	615,168	Nov. 29	3526	810 811	85	1360
Coupling-releasing mechanism	U. G. Detwiler	603,830	May 10	1088	243	83	827
Coupling-unlocking device	A. A. Pope	613,715	Nov. 8	871	202 203	85	803
Course-indicator. Great-circle	S. R. Kirby	615,857	Dec. 13	1152	269	85	1651
Cover and cutting-tool	M. Falk	616,301	Dec. 20	2025	471	85	1841
Cover for chambers, commodes, &c	P. H. Deis	608,032	July 26	2808	597	84	599
Cover for crocks, &c	W. Gribben and H. W. Smith	604,040	May 17	1481	332	83	998
Cover for vessels or receptacles	W. Ginalske	615,483	Dec. 6	495	116	85	1508
Cover or binder for magazines, &c	W. Jeschke	602,452	Apr. 19	1495	341	83	314
Cover. Removable	R. L. Akins	609,071	Aug. 16	1684	401	84	1013
Cow kicker. Anti	W. Vandorn	616,374	Dec. 20	2158	502	85	1866
Cow-tail holder	E. J. and L. M. Trapp	611,156	Sept. 20	1830	422	84	1828
Cows from kicking. Device for preventing	C. A. Eidsmoe	606,481	June 28	2690	620	83	1922
Crab scrape bag	L. C. Dize	614,706	Nov. 22	2654	604 605	85	1174
Cradle	R. Bird	609,654	Aug. 23	2786	649	84	1242
Cradle	W. G. Patton	616,351	Dec. 20	2114	492	85	1858



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec	Dr'g	Vol.	Page.
Cradle.....	A. Weinstein.....	598,607	Feb. 8	922	222	82	796
Cradle and child's carriage. Combined motor.....	C. F. Nilson.....	604,498	May 24	2351	534	83	1123
Cradle or similar rocker. Rocking.....	J. Allred.....	603,002	Apr. 26	2452	558	83	510
Cradle. Self-rocking.....	R. D. King.....	611,174	Sept. 20	1861	429	84	1834
Cradle. Self-rocking.....	F. B. Millard.....	597,168	Jan. 11	1244	292	82	258
Cranberry-picker.....	W. M. Kendrick.....	600,204	Mar. 8	1097	249	82	1449
Crane.....	J. W. Guernsey.....	612,413	Oct. 18	1456	351 352	85	304
Crane.....	H. Sawyer.....	608,227	Aug. 2	105	27	84	675
Crane.....	A. Thomlinson.....	615,924	Dec. 13	1276	298	85	1673
Crane. Overhead traveling.....	W. H. Morgan.....	602,765	Apr. 19	2023	459	83	413
Crane. Portable.....	J. E. Walsh.....	600,757	Mar. 15	2059	471	82	1651
Cranes. Apparatus for producing traversing motion of overhead traveling.....	J. G. and E. G. Pievehen.....	608,191	Aug. 2	44	10, 11	84	663
Cranes. Motive fluid-supply device for traveling.....	C. E. Maris.....	598,429	Feb. 1	627	154	82	722
Crank and shaft. Combination.....	P. L. Hussey.....	612,499	Oct. 18	1595	381	85	330
Crank-arms to crank-shafts. Means for attaching.....	T. H. Hoyt and J. Gillet.....	603,692	May 10	821	181	83	777
Crank-fastening.....	T. A. Hearson.....	609,433	Aug. 23	2354	555	84	1162
Crank-hanger.....	P. Brennan.....	616,073	Dec. 20	1559	364	85	1746
Crank mechanism.....	R. Grisson.....	601,563	Mar. 29	3440	781	82	1957
Crank-motion.....	P. Goldmann.....	615,158	Nov. 29	3505	806	85	1355
Crank-pedal.....	C. H. Metz and T. Curley.....	604,919	May 31	3091	710	83	1283
Crank-power.....	J. C. Potts.....	600,169	Mar. 8	1046	235 236	82	1439
Crate.....	J. M. Alderfer.....	600,821	Mar. 15	2155	492	82	1669
Crate.....	J. C. Dozier.....	609,879	Aug. 30	3156	737	84	1329
Crate.....	J. F. East.....	597,608	Jan. 18	1986	462	82	421
Crate.....	J. Heagerty.....	596,706	Jan. 4	450	101	82	87
Crate.....	G. H. Owens.....	604,076	May 17	1561	349 350	83	953
Crate.....	E. S. Shellhouse.....	612,680	Oct. 18	1930	457	85	394
Crate and box for cans.....	G. J. Record.....	601,326	Mar. 29	3052	688	82	1880
Crate and stand for demijohns or carboys. Tilting.....	G. Doherty.....	614,091	Nov. 15	1516	347	85	950
Crate. Collapsible.....	J. Cunningham.....	611,836	Oct. 4	427	102	85	85
Crate. Collapsible.....	J. H. Fowler.....	596,745	Jan. 4	516	118	82	100
Crate. Collapsible.....	G. H. Grove.....	601,650	Apr. 5	46	9	83	10
Crate. Collapsible egg.....	M. F. Peterfish.....	602,627	Apr. 19	1790	408	83	368
Crate. Collapsible folding.....	A. E. Anderson.....	616,445	Dec. 27	2282	531 532	85	1911
Crate. Collapsible shipping.....	W. O. Parker.....	602,357	Apr. 12	1328	295	83	267
Crate. Combined safety locking, tilting, and shipping.....	F. A. Emerick and H. Craley.....	614,205	Nov. 15	1713	393	85	988
Crate corner.....	M. C. Ryan.....	602,409	Apr. 12	1417	320	83	285
Crate. Egg.....	O. P. Crim.....	612,828	Oct. 25	2212	524	85	468
Crate fastener. Egg.....	G. E. Marble.....	598,796	Feb. 8	1237	299	82	854
Crate. Folding.....	J. S. Andrews.....	600,822	Mar. 15	2156	492	82	1669
Crate. Folding.....	E. A. Armstrong and W. N. Willard.....	600,762	Mar. 15	2068	474	82	1653
Crate. Folding.....	F. Moll, C. Tolly, and E. Sims.....	600,589	Mar. 15	1778	406 407	82	1597
Crate. Folding.....	J. P. Murphey.....	607,121	July 12	916	198	84	195
Crate. Folding.....	Z. B. Taylor.....	616,162	Dec. 20	1761	407 408	85	1787
Crate. Folding.....	W. E. Vanande.....	612,287	Oct. 11	1242	298	85	250
Crate. Folding.....	W. A. Whitaker.....	596,561	Jan. 4	174	39	82	35
Crate. Folding bicycle.....	M. E. Dunbar.....	603,443	May 3	347	78	83	666
Crate. Folding egg.....	J. A. Haskett.....	606,140	June 21	2048	469	83	1776
Crate. Folding egg.....	D. Reid.....	602,472	Apr. 19	1530	348	83	321
Crate. Folding egg.....	E. S. Yohe and I. W. Parsons.....	599,979	Mar. 1	557	128	82	1318
Crate for bottles, demijohns, &c.....	F. A. Emerick.....	614,204	Nov. 15	1711	392	85	988
Crate or box. Egg.....	F. H. Champlin.....	607,423	July 19	1484	315	84	320
Crate or case. Shipping.....	E. A. Wolfe and P. E. Hart.....	601,695	Apr. 5	127	25	83	27
Crate or coop. Foldable.....	J. O. Moss.....	616,550	Dec. 27	2495	577	85	1952
Crate. Safety bottle.....	G. C. Chappell.....	613,441	Nov. 1	417	95	85	695
Crate. Shipping.....	N. P. Barclay and C. M. Dayton.....	611,228	Sept. 27	1979	457	84	1877
Crate. Shipping.....	T. F. McBride.....	598,431	Feb. 1	629	155	82	723
Crate. Shipping.....	J. A. Reeder.....	607,574	July 19	1926	399	84	410
Crate. Shipping.....	O. Rose.....	611,281	Sept. 27	2084	480	84	1896
Crate. Shipping.....	G. C. Runkle.....	616,146	Dec. 20	1724	399 400	85	1777
Crate. Shipping.....	R. L. Templeman.....	603,388	May 3	244	55	83	647
Crates. Box for shipping.....	S. H. Rout.....	612,141	Oct. 11	973	236	85	200
Crates. Registering device for poultry.....	N. B. and D. Updike.....	611,720	Oct. 4	231	56	85	47
Cravat.....	C. W. T. Davies.....	615,435	Dec. 6	406	97	85	1492
Crayon or pencil holder.....	E. A. Shields.....	615,581	Dec. 6	677	156	85	1544
Cream from milk. Apparatus for separating.....	C. L. and F. G. Lee.....	605,252	June 7	373	84	83	1422
Cream-saver.....	W. A. King.....	616,192	Dec. 20	1815	419	85	1797
Cream-separator.....	J. E. Phillips.....	609,461	Aug. 23	2414	566	84	1172
Cream-separator.....	J. W. Thayer.....	608,311	Aug. 2	250	57	84	704
Cream separator. Centrifugal.....	C. Hohnsbehn.....	596,508	Jan. 4	79	18	82	17
Creamer.....	F. E. Sargent.....	608,482	Aug. 2	559	124	84	766
Creamer. Centrifugal.....	G. Daseking.....	600,684	Mar. 15	1938	441	82	1627
Creamer. Centrifugal.....	F. G. Jones.....	610,058	Aug. 30	3478	807	84	1392
Creaming can.....	J. A. Rector.....	611,275	Sept. 27	2075	477	84	1895
Creel frame.....	J. P. Cronin.....	613,760	Nov. 8	966	221	85	821
Crib. Folding.....	R. P. Ashwell.....	609,491	Aug. 23	2480	579	84	1184
Crib. Folding.....	R. H. Buchanan.....	609,496	Aug. 23	2489	581	84	1186
Cribbage-board.....	W. G. Ross and J. J. Reid.....	614,028	Nov. 8	1400	321	85	906
Crimping machine.....	G. Molla.....	613,069	Oct. 25	2616	619	85	547
Crochet or lace holder.....	W. O. Hill.....	606,215	June 23	2186	503	83	1822
Crossover. Emergency.....	F. R. Coates and O. M. Shepard.....	609,660	Aug. 23	2795	651	84	1244
Cross-tie.....	O. Oleson.....	601,101	Mar. 22	2622	598	82	1771
Cross-tie and rail-fastening. Metallic.....	A. B. Allen.....	607,906	July 26	2566	544	84	550
Cross-tie. Metallic.....	W. F. Penner.....	606,577	June 28	2868	660	83	1958
Crozing or grooving tool for barrels, &c.....	E. Frueh.....	611,408	Sept. 27	2334	538	84	1942
Crucible-furnace. Self-heating.....	R. Baumann.....	608,747	Aug. 9	1035	237	84	878



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Crusher:							
See Cane-crusher.	Rock-crusher.						
Clod-crusher.	Rock and ore crusher.						
Coal-crusher.							
Crusher	A. Jordan	604,762	May 31	2826	646	83	1232
Crusher and pulverizer	A. and L. E. Bandeen	607,418	July 19	1469	311	84	317
Crushing and pulverizing mill	F. G. Johnson	615,278	Dec. 6	107	28, 29	85	1434
Crushing-machine	T. L. and T. J. Sturtevant	607,575	July 19	1928	399 400	84	411
Crushing-machine. Roller	W. J. Dyer	610,802	Sept. 13	1196	275	84	1690
Crushing-mill. Portable	H. L. Jessen	602,221	Apr. 12	1103	242	83	222
Crushing-mill. Roller	J. F. Webb	615,375	Dec. 6	295	68	85	1470
Crushing-mill stamp-stem	C. Gracey	616,311	Dec. 20	2035	474	85	1843
Crushing or amalgamating mill	H. Banfield	614,074	Nov. 15	1479	339	85	943
Crushing-roll	A. Pesant	606,234	June 28	2235	513	83	1831
Crutch	R. Schwarting	616,738	Dec. 27	2853	661	85	2021
Crutch-tip	O. J. Mason	612,428	Oct. 18	1479	357	85	308
Crystals. Process of and apparatus for obtaining	J. Bock	616,821	Dec. 27	2983	695	85	2047
Cue-rack	J. Dockstader	615,821	Dec. 13	1098	257	85	1641
Cuff	C. A. Chidsey	604,877	May 31	3016	692	83	1269
Cuff	J. A. Brogan	611,351	Sept. 27	2211	511	84	1919
Cuff	J. F. Fellows	611,241	Sept. 27	1997	460	84	1880
Cuff-fastener	C. G. King	597,679	Jan. 18	2105	493	82	442
Cuff-holder	H. B. Fisher	598,917	Feb. 15	1442	345	82	910
Cuff-holder	J. F. Harrison	613,816	Nov. 8	1067	242	85	840
Cuff-holder	C. V. Richards	614,026	Nov. 8	1397	320	85	905
Cuff-links. Detachable fastener for	J. M. Parkinson	599,353	Feb. 22	2211	524	82	1077
Culinary apparatus	L. Fehr	601,245	Mar. 29	2883	657	82	1848
Culinary apparatus	J. M. West	600,818	Mar. 15	2150	491	82	1668
Culinary beater	W. Spruin and J. Barnett	599,268	Feb. 15	2028	481	82	1021
Culinary vessel	A. C. Hertz	616,573	Dec. 27	2530	586	85	1958
Culinary vessel	A. W. Obermann	611,705	Oct. 4	202	47, 48	85	42
Cultivating and soil-stirring device	C. W. Davis	609,611	Aug. 23	2692	628 629 630	84	1224
Cultivating machine. Corn-	W. Evert	597,817	Jan. 25	2351	549	82	506
Cultivating the soil. Apparatus for	G. K. Spitzenberg	614,512	Nov. 22	2304	528	85	1110
Cultivation. Apparatus for steam	R. H. Fowler and T. Benstead	608,514	Aug. 2	610	136 137	84	777
Cultivator	S. M. Adams	600,275	Mar. 8	1223	278	82	1473
Cultivator	J. G. Alexander	601,226	Mar. 29	2849	651	82	1841
Cultivator	G. C. Avery	611,551	Sept. 27	2590	597	84	1901
Cultivator	J. G. W. and A. K. Bailey	615,126	Nov. 29	3450	791	85	1344
Cultivator	W. Beam	599,093	Feb. 15	1737	412	82	968
Cultivator	F. H. and T. C. Bornman	598,849	Feb. 8	1317	319	82	870
Cultivator	J. W. Brown	615,210	Nov. 29	3634	835	85	1381
Cultivator	S. C. Cobb	610,030	Aug. 30	3436	796	84	1383
Cultivator	C. W. Davis	609,609	Aug. 23	2681	626 627	84	1221
Cultivator	H. E. Dodson	608,402	Aug. 2	422	93	84	740
Cultivator	E. Doré	612,964	Oct. 25	2447	583	85	513
Cultivator	I. Fix	600,415	Mar. 8	1438	329	82	1514
Cultivator	O. O. Fjeld	612,093	Oct. 11	898	217 218	85	186
Cultivator	J. S. Ford	610,176	Sept. 6	46	11	84	1450
Cultivator	L. W. Grauerholz	615,160	Nov. 29	3508	806	85	1356
Cultivator	J. B. Greer	598,420	Feb. 1	616	151	82	719
Cultivator	J. A. Gregory	616,837	Dec. 27	3008	701	85	2053
Cultivator	A. J. Harrington and E. S. Warnock	614,469	Nov. 22	2237	513	85	1099
Cultivator	F. A. Head and T. L. Regester	611,036	Sept. 20	1600	367	84	1784
Cultivator	D. N. Hesler	598,422	Feb. 1	618	152	82	720
Cultivator	J. T. Horn	600,422	Mar. 8	1451	331	82	1516
Cultivator	G. Lewis	610,546	Sept. 13	755	172	84	1599
Cultivator	P. E. Little	604,992	May 31	3198	736	83	1305
Cultivator	D. B. Miles	604,773	May 31	2844	650	83	1235
Cultivator	D. M. Motherwell	601,713	Apr. 5	178	35	83	35
Cultivator	D. M. Motherwell	602,663	Apr. 19	1866	424	83	383
Cultivator	D. M. Motherwell	604,172	May 17	1736	391	83	988
Cultivator	D. M. Motherwell	608,411	Aug. 2	439	96, 97	84	743
Cultivator	D. M. Motherwell	610,073	Aug. 30	3502	811	84	1396
Cultivator	G. W. Noble	611,644	Oct. 4	91	22	85	20
Cultivator	H. Otenhouse	608,790	Aug. 9	1103	255	84	890
Cultivator	E. A. Ovenshire	598,057	Jan. 25	2753	642	82	584
Cultivator	J. H. Owens	611,437	Sept. 27	2390	548	84	1951
Cultivator	C. F. Pogue	599,401	Feb. 22	4314	546	82	1098
Cultivator	F. A. Rice	613,470	Nov. 1	456	105	85	703
Cultivator	C. Russell	596,912	Jan. 4	790	186	82	154
Cultivator	W. H. Sayer	612,277	Oct. 11	1216	291	85	245
Cultivator	J. D. Schofield	610,148	Aug. 30	3613	839 840	84	1420
Cultivator	N. O. Starks	602,779	Apr. 19	2049	464	83	419
Cultivator	N. O. Starks	604,130	May 17	1660	372 373	83	972
Cultivator	W. M. Stevenson	614,671	Nov. 22	2591	588	85	1162
Cultivator	C. B. Way	613,341	Nov. 1	213	48	85	657
Cultivator	P. F. Wells	601,295	Mar. 29	2997	677	82	1871
Cultivator	E. E. Whipple	607,632	July 19	2036	422 423	84	431
Cultivator	E. E. Whipple	609,064	Aug. 16	1674	398	84	1012
Cultivator and draft-equalizer	W. F. Natschke	616,345	Dec. 20	2102	489 490	85	1855
Cultivator and harrow	N. P. Cook and W. A. Whitfield	599,165	Feb. 15	1868	442	82	990
Cultivator and harrow. Combined	J. A. Webber	601,743	Apr. 5	238	47	83	46
Cultivator and planter	C. B. Webster	598,039	Jan. 25	2723	636	82	578
Cultivator and planter. Combined	A. H. Green	607,364	July 12	1360	290	84	280



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cultivator and soil-stirring implement .....	C. W. Davis .....	609,610	Aug. 23	2687	{ 627 628	{ 84	1223
Cultivator appliance. Wheel- .....	W. A. Douglas .....	606,835	July 5	378	80	84	75
Cultivator attachment .....	C. Rodgers .....	600,175	Mar. 8	1052	237	82	1440
Cultivator attachment .....	C. C. Warren .....	611,463	Sept. 27	2435	560	84	1961
Cultivator. Combination corn and cotton .....	W. A. Slay .....	612,876	Oct. 25	2314	550	85	486
Cultivator. Cotton- .....	J. E. Barron .....	611,192	Sept. 20	1887	436	84	1840
Cultivator. Disk .....	G. K. Brenner .....	603,167	Apr. 26	2726	620	83	563
Cultivator. Disk .....	A. L. Brock .....	608,830	Aug. 9	1213	{ 283 284	{ 84	909
Cultivator. Disk .....	J. L. Scott .....	615,576	Dec. 6	669	154	85	1543
Cultivator. Double-row .....	P. Jarvis .....	611,321	Sept. 27	2155	498	84	1909
Cultivator fertilizer attachment .....	W. Eggert, Jr .....	609,502	Aug. 23	2496	584	84	1187
Cultivator fertilizer-distributor and planter attachment .....	J. B. Whitaker .....	603,802	May 10	1012	226	83	814
Cultivator-frame .....	M. and C. Zöllner .....	615,775	Dec. 13	1025	240	85	1626
Cultivator. Garden- .....	A. Fiscus .....	602,285	Apr. 12	1214	267	83	244
Cultivator. Garden- .....	G. W. Rose .....	614,027	Nov. 8	1398	{ 320 321	{ 85	905
Cultivator. Hand- .....	G. L. Roby .....	611,649	Oct. 4	102	25	85	22
Cultivator. Hand- .....	G. L. Roby .....	611,651	Oct. 4	104	26	85	23
Cultivator leveler attachment .....	H. G. Kountz .....	615,284	Dec. 6	118	32	85	1436
Cultivator or plow. Hillside .....	M. C. Dethlefs .....	606,001	June 21	1777	{ 407 408	{ 83	1726
Cultivator, planter, and fertilizer-distributor. Com- bined .....	C. R. Reid .....	612,460	Oct. 18	1529	{ 367 368	{ 85	318
Cultivator planter attachment .....	S. Brock .....	614,437	Nov. 22	2168	499	85	1086
Cultivator planter attachment. Wheel- .....	J. M. Homesley .....	613,995	Nov. 8	1352	308	85	896
Cultivator. Plow- .....	R. R. Jones .....	609,886	Aug. 30	3172	742	84	1332
Cultivator pulverizing attachment .....	G. G. Gilbertson .....	604,313	May 17	2000	448	83	1039
Cultivator. Riding .....	C. E. White .....	601,330	Mar. 29	3059	{ 689 690	{ 82	1881
Cultivator-scraper .....	A. C. Butler .....	611,195	Sept. 20	1890	436	84	1840
Cultivator-shanks. Device for holding shovels on- to .....	V. A. Gleason .....	601,561	Mar. 29	3436	780	82	1957
Cultivator-shield .....	T. W. King .....	596,660	Jan. 4	358	79	82	71
Cultivator-shovel .....	G. T. Crobarger .....	604,205	May 17	1800	405	83	1000
Cultivator. Straddle-row .....	J. M. Rexroad .....	612,214	Oct. 11	1096	{ 263 264	{ 85	224
Cultivator. Straddle-row .....	J. D. Schofield .....	600,210	Mar. 8	1106	252	82	1450
Cultivator. Sulky- .....	S. N. Bistline .....	611,554	Sept. 27	2596	599	84	1992
Cultivator. Thill- .....	C. Hinman .....	601,469	Mar. 29	3289	743	82	1925
Cultivator-tooth seat. Adjustable .....	J. D. Schofield .....	605,140	June 7	134	34	83	1377
Cultivator weed-cutter attachment .....	P. W. Corcoran .....	602,430	Apr. 19	1454	329	83	307
Cultivator. Wheel- .....	H. C. Young .....	598,461	Feb. 1	673	165	82	730
Cultivator. Wheel- .....	H. C. Young .....	598,462	Feb. 1	674	165	82	730
Cultivator. Wheeled .....	C. L. King .....	614,727	Nov. 22	2694	614	85	1182
Culture apparatus .....	S. Mereshkowsky .....	614,121	Nov. 15	1572	{ 359 360	{ 85	960
Cup:							
See Lubrication-cup. Oil-cup. Milk-cup. Soap-cup.							
Cup-lubricator .....	J. R. Holmes .....	602,160	Apr. 12	1002	220	83	202
Cup or pail .....	J. W. Scoles .....	610,285	Sept. 6	277	60	84	1495
Cupboard. Window- .....	B. Ives .....	597,718	Jan. 25	2173	508	82	472
Cupola .....	T. P. Byram .....	607,501	July 19	1794	373	84	388
Curb and culvert-cover. Sidewalk- .....	G. P. Gross .....	603,561	May 3	584	130	83	714
Curd-agitator .....	G. D. Pohl .....	597,859	Jan. 25	2424	565	82	521
Curling or crimping iron support .....	J. H. Paige .....	605,807	June 14	1379	316	83	1634
Current asynchronous machine. Alternating- .....	M. Hutin and M. Leblanc .....	613,204	Oct. 25	2839	{ 670 671	{ 85	592
Current-collecting device .....	L. Gutmann .....	599,781	Mar. 1	184	46	82	1250
Current generator. Alternating- .....	C. S. Bradley .....	615,952	Dec. 13	1337	313	85	1685
Current-indicator .....	T. W. Varley .....	606,369	June 28	2488	578	83	1882
Current induction-motor. Alternating- .....	C. S. Bradley .....	608,249	Aug. 2	141	35	84	682
Current induction-motor. Alternating- .....	C. P. Steinmetz .....	602,920	Apr. 26	2307	526	83	482
Current induction-motor. Alternating- .....	C. P. Steinmetz .....	602,921	Apr. 26	2311	526	83	483
Current meter. Alternate- .....	C. P. Feldmann .....	602,557	Apr. 19	1668	379	83	346
Current meter. Alternating- .....	G. Hummel .....	600,616	Mar. 15	1815	416	82	1604
Current meter. Direct- .....	G. A. Scheffer .....	599,302	Feb. 15	2094	496	82	1033
Current-motor .....	W. W. Douglass .....	612,091	Oct. 11	893	{ 216 217	{ 85	185
Current-motor .....	H. C. Keeler .....	608,131	July 26	2951	{ 633 634	{ 84	628
Current-motor .....	A. E. Schlieder .....	607,959	July 26	2653	564	84	566
Current motor. Alternating- .....	C. S. Bradley .....	610,025	Aug. 30	3428	794	84	1382
Current motor. Alternating- .....	A. Heyland .....	598,092	Feb. 1	35	9	82	610
Current motor. Alternating- .....	W. Langdon-Davies .....	601,023	Mar. 22	2502	569	82	1747
Current motor. Alternating- .....	W. Stanley .....	599,810	Mar. 1	256	57	82	1261
Current motor and operating same. Alternating- .....	C. S. Bradley .....	614,076	Nov. 15	1483	340	85	944
Current-motor system and operating same. Alter- nating- .....	M. Hutin and M. Leblanc .....	613,203	Oct. 25	2833	{ 669 670	{ 85	591
Current motors. Controlling alternating- .....	C. S. Bradley .....	615,953	Dec. 13	1338	313	85	1685
Current motors. Means for controlling non-syn- chronous alternating- .....	B. G. Lamme .....	609,990	Aug. 30	3372	783	84	1371
Current motors. Starting resistance for alternat- ing- .....	E. L. K. F. Kahlenberg .....	614,394	Nov. 15	2084	480	85	1056
Current regulator. Direct- .....	F. E. Ramsay .....	610,413	Sept. 6	518	113	84	1538
Current transformer. Polyphase- .....	C. Kurda .....	600,228	Mar. 8	1134	{ 258 259	{ 82	1456
Currents. Apparatus for adjusting phases of alter- nating .....	J. H. F. Görges .....	611,902	Oct. 4	536	131	85	107
Currents. Changing period and phase of alternat- ing .....	C. S. Bradley .....	615,954	Dec. 13	1340	313	85	1686
Currents. Converter for monophase .....	A. Blondel and G. Sautter .....	596,567	Jan. 4	187	42	82	38



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Currents into direct currents. Transformation of alternating	A. Müller	599,780	Mar. 1	196	49	82	1252
Currents. Method of and apparatus for generating alternating	M. Hutin and M. Leblanc	606,761	July 5	235	50	84	48
Currycomb	J. D. Brainard	610,891	Sept. 20	1349	309	84	1737
Currycomb	J. Carden	607,733	July 19	2199	464	84	462
Currycomb	G. Halm and G. Bodine	612,843	Oct. 25	2252	538	85	474
Currycomb	W. E. Phillips	609,240	Aug. 16	2016	478	84	1076
Currycomb	W. A. Townes	606,849	July 5	403	86	84	80
Currying implement	J. G. Dougherty	600,194	Mar. 8	1085	245	82	1446
Curtain	E. H. Duchemin	597,402	Jan. 18	1633	379 380	82	351
Curtain and window-shade holder. Combination	T. McCormick	602,091	Apr. 12	868	189	83	176
Curtain-bracket. Adjustable	T. H. Eulass	606,962	July 5	563	124	84	111
Curtain-fastener	J. F. Powell	597,511	Jan. 18	1829	423	82	390
Curtain-fixture	A. Assorati	610,732	Sept. 13	1059	243	84	1663
Curtain-fixture	J. B. Bullis	606,442	June 28	2630	605	83	1911
Curtain-fixture	A. C. Fischer	604,656	May 24	2624	600	83	1175
Curtain-fixture	G. H. Forsyth	612,606	Oct. 18	1801	426 427	85	370
Curtain-fixture	H. L. Green	604,881	May 31	3023	694	83	1270
Curtain-fixture	J. R. Hartman and M. L. Eldridge	600,721	Mar. 15	2001	455	82	1639
Curtain-fixture	A. S. Lord	606,468	June 28	2669	615	83	1918
Curtain-fixture	R. R. McClellan	596,904	Jan. 4	776	183	82	151
Curtain-fixture	F. Succie	616,274	Dec. 20	1973	459	85	1830
Curtain-fixture	W. J. Walters and W. W. Rohrer	603,615	May 3	688	154	83	734
Curtain-fixture. Window-	W. W. Phillips	611,141	Sept. 20	1804	415	84	1824
Curtain. Folding	R. Andlauer	612,985	Oct. 25	2477	591	85	520
Curtain-folding machine	J. Heselwood	606,341	June 28	2440	565 566	83	1873
Curtain for vestibules of cars, &c.	R. W. Morgan	607,872	July 26	2502	531	84	537
Curtain-hanger	R. Alexander	615,124	Nov. 29	3448	791	85	1344
Curtain-hanger	H. F. Bogel	609,179	Aug. 16	1888	449	84	1048
Curtain-hanger	J. J. Brooks	609,180	Aug. 16	1889	449	84	1049
Curtain-hanger	L. H. Broome	599,116	Feb. 15	1784	425	82	976
Curtain-hanger	C. A. Oliver	608,070	July 26	2860	611	84	610
Curtain-holdback	F. W. Kelsey	609,965	Aug. 30	3320	772	84	1361
Curtain-holder	U. S. Parish and F. A. Rudolph	598,533	Feb. 8	797	191	82	771
Curtain-holder	U. S. Parish and F. A. Rudolph	607,702	July 19	2159	454	84	454
Curtain-holder	E. F. Wilkinson	605,036	May 31	3276	752	83	1319
Curtain-operator	J. Acker, J. McCoskry, and A. Molis	600,940	Mar. 22	2362	536	82	1721
Curtain-pole	A. M. Christiansen	603,053	Apr. 26	2526	574	83	524
Curtain-pole	A. E. Bowers	608,101	July 26	2908	622	84	619
Curtain-pole	J. B. Elker and P. J. Jacobs	601,372	Mar. 29	3122	705	82	1893
Curtain-pole	A. F. Henderson	601,832	Apr. 5	394	83	83	74
Curtain-pole	W. Ostendorf	614,748	Nov. 22	2726	622	85	1189
Curtain-pole adjuster	C. N. Barker	614,282	Nov. 15	1873	432	85	1016
Curtain-pole adjuster	G. Loos	607,117	July 12	908	197	84	194
Curtain-pole adjuster and support. Combined	J. Anderson	613,185	Oct. 25	2796	659	85	584
Curtain-pole and shade bracket	J. Powell	615,898	Dec. 13	1220	286	85	1663
Curtain-pole bracket	J. Boland	603,870	May 10	1146	258	83	839
Curtain-pole holder	C. O. Foedisch and E. E. Lang	612,238	Oct. 11	1140	273	85	233
Curtain-pole holder	M. H. Marcus	601,024	Mar. 22	2503	569	82	1747
Curtain-pole ring	J. E. Miller	605,967	June 21	1719	394	83	1716
Curtain-pole support. Adjustable	O. E. Wagener	598,036	Jan. 25	2720	635	82	577
Curtain poles, rods, &c. Support for	J. Kroder and H. Reubel	600,006	Mar. 1	595	137	82	1326
Curtain-rack. Extension	F. W. Baehn	600,682	Mar. 15	1934	440	82	1626
Curtain-ring	J. Berbecker	615,339	Dec. 6	205	50	85	1453
Curtain-ring	A. R. Bishop	599,762	Mar. 1	156	38	82	1245
Curtain-ring	J. M. Willbur	613,543	Nov. 1	586	135	85	727
Curtain ring and holder	P. Casey, Jr	610,342	Sept. 6	385	82	84	1514
Curtain-rod	J. M. Willbur	613,542	Nov. 1	585	135	85	727
Curtain-rod bracket	J. Jones	606,152	June 21	2064	474	83	1779
Curtain rod. Sash-	G. H. Atkins	597,551	Jan. 18	1887	438	82	402
Curtain-roller	J. W. Morpeth	597,730	Jan. 25	2194	511	82	477
Curtain-roller attachment	M. L. Kullberg	596,815	Jan. 4	635	146	82	123
Curtain-roller fixture	A. Caesar	603,255	May 3	22	6	83	604
Curtain-stretcher	R. Hoffheins	603,690	May 10	816	180	83	776
Curtain-stretcher	M. R. Lare and J. S. Young	602,459	Apr. 19	1508	344	83	316
Curtain-stretcher	E. B. Leary	600,205	Mar. 8	1098	250	82	1449
Curtain-stretcher	J. J. Oliver	600,017	Mar. 1	625	142	82	1332
Curtain-stretcher. Lace-	J. C. Whipple	610,294	Sept. 6	297	64	84	1499
Curtain-tassel attachment	H. T. Pycroft	603,540	May 3	554	122	83	707
Curtains or screens. Means for raising or lowering door or like	W. Brecknell	615,605	Dec. 6	715	165	85	1553
Cushion:							
See Billiard-table cushion.	Rocker-cushion.						
ion.	Slate-frame cushion.						
Pneumatic cushion.							
Cushion-cleaning machine	G. N. Dow and H. Stern	603,828	May 10	1071	239	83	824
Cuspidor	J. and T. Buckley	600,354	Mar. 8	1344	308	82	1496
Cuspidor	H. C. McRae	603,199	Apr. 26	2780	634	83	573
Cuspidor	S. Smyth	612,578	Oct. 18	1739	412	85	357
Cuspidor	H. J. Springer	615,111	Nov. 29	3424	785 786	85	1338
Cuspidor and attachment	A. M. McQuarrie	610,556	Sept. 13	775	176	84	1603
Cuspidor-bowls. Supporting attachment for	G. E. Johnson	611,218	Sept. 20	1947	449	84	1850
Cuspidor. Car-	F. H. Manning and J. P. Bouchet	606,871	July 5	440	94	84	87
Cuspidor-carrier	C. C. Corlew	613,973	Nov. 8	1313	299	85	888
Cuspidor-cleaner	J. F. Nolan	605,006	May 31	3223	742	83	1309
Cuspidor for cars, &c	C. F. Cuttingham	606,647	July 5	20	4	84	6
Cuspidor. Sanitary	J. A. W. Walker	607,365	July 12	1257	268	84	260
Cuspidor-tongs	G. Prouty	600,930	Mar. 22	2347	533	82	1718
Cut-off and strainer for cisterns. Automatic	A. A. Klar	609,439	Aug. 23	2363	557	84	1163
Cut-off. Cistern	J. McCoy	603,388	May 3	167	38, 39	83	634



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cut-off for cisterns .....	S. N. Judd .....	612,165	Oct. 11	1019	245	85	209
Cut-off for water-spouts. Automatic .....	W. A. Maddin .....	612,252	Oct. 11	1179	283	85	238
Cut-off for water-spouts or other conduits .....	H. Eppe .....	608,765	Aug. 9	1064	244	84	883
Cut-off machine .....	F. Challoner .....	603,498	May 3	471	105	83	691
Cut-out .....	A. R. McNeill .....	600,593	Mar. 15	1782	408	82	1598
Cut-out. Automatic .....	H. F. Blackwell, Jr .....	601,432	Mar. 29	3329	753	82	1934
Cut-out for magneto-generators. Automatic .....	W. J. Bowen and C. A. Federer .....	610,023	Aug. 30	3426	793 794	84	1381
Cut-out. Automatic leak or ground .....	W. L. Pratt .....	613,046	Oct. 25	2571	610	85	538
Cut-out. Automatic resetting fusible .....	J. D. Holmes and W. L. Heath .....	604,616	May 24	2559	584	83	1163
Cut-out. Fusible .....	J. Jones, Jr .....	598,940	Feb. 15	1483	354	82	917
Cut-out. Fusible .....	E. A. Lowe .....	598,106	Feb. 1	64	15	82	615
Cut-out. Fusible .....	F. Schwedtmann .....	601,286	Mar. 29	2979	673	82	1867
Cut-out. Magnetic .....	L. Andrews .....	614,686	Nov. 22	2619	595	85	1167
Cut-out. Time-limit .....	H. H. Cutler .....	603,594	May 3	634	141 142	83	725
Cutlery-handle .....	J. N. Stanley .....	612,619	Oct. 18	1829	434	85	375
Cutlery-scourer .....	J. G. Kerst .....	598,789	Feb. 8	1228	297	82	853
Cutter:							
See Asphalt-cutter. Meat or vegetable cutter.							
Axle-cutter. Metal-cutter.							
Band-cutter. Milling-cutter.							
Bark-cutter. Noodle-cutter.							
Bolt-cutter. Paper-cutter.							
Bone-cutter. Picture-matting cutter.							
Buttonhole-cutter. Pipe cutter.							
Cane-cutter. Pipe or tube cutter.							
Cigar-cutter. Potato-cutter.							
Cigar-tip cutter. Root or sod cutter.							
Cord-cutter. Rotary cutter.							
Corn-cutter. Shaping-cutter.							
Dough-cutter. Sod-cutter.							
Feed-cutter. Stalk-cutter.							
Flue-cutter. Thread-cutter.							
Fodder-cutter. Threshing machine							
Fruit or flower stem band-cutter.							
cutter. Tobacco-cutter.							
Gear cutter. Tube-cutter.							
Glass cutter. Twine-cutter.							
Hair-cutter. Wad cutter.							
Hog-nose cutter. Weed-cutter.							
Hog snout cutter. Wire-cutter.							
Meat-cutter. Wrapper-cutter.							
Cutter .....	C. H. Churchill .....	616,825	Dec. 27	2991	697	85	2049
Cutter .....	C. K. Hostetter .....	615,988	Dec. 13	1401	328	85	1699
Cutter .....	L. Mäcke .....	605,733	June 14	1223	283	83	1605
Cutter .....	J. W. Morrison and J. E. Tracy .....	614,407	Nov. 15	2106	484	85	1060
Cutter-bar .....	A. J. Anthony .....	615,233	Dec. 6	2	1	85	1411
Cutter-bar .....	C. E. Frye .....	604,311	May 17	1997	448	83	1038
Cutter-bit. Adjustable .....	T. S. Ferguson .....	598,142	Feb. 1	116	28	82	624
Cutter, connector, and pliers. Combination .....	C. P. Toward .....	603,349	May 3	183	42	83	637
Cutter forming machine .....	O. L. Noble .....	598,002	Jan. 25	2669	623	82	568
Cutter guide .....	E. J. Miller .....	597,013	Jan. 11	972	230	82	205
Cutter-head .....	G. R. Boyd .....	601,932	Apr. 5	585	122	83	111
Cutter head .....	J. W. Schleicher .....	608,272	Aug. 2	177	42, 43	84	690
Cutter head .....	S. J. Shimer .....	603,976	May 10	1316	302	83	872
Cutter head .....	S. J. Shimer .....	607,709	July 19	2168	456	84	455
Cutter head .....	S. J. Shimer .....	614,771	Nov. 22	2760	630 631	85	1196
Cutter-head .....	H. M. Wilcox .....	604,707	May 24	2725	623	83	1194
Cutter head and cutter .....	F. E. Dalzell .....	598,364	Feb. 1	510	123	82	698
Cutting and delivery mechanism .....	L. C. Crowell .....	608,582	Aug. 9	737	169 170	84	822
Cutting and printing mechanism .....	W. H. Butler .....	609,007	Aug. 16	1561	371 372	84	991
Cutting and trimming machine gage .....	H. Graven .....	609,199	Aug. 16	1920	457	84	1055
Cutting apparatus .....	A. Palm .....	604,413	May 24	2187	490	83	1094
Cutting-blocks. Manufacturing .....	F. E. Lang .....	601,969	Apr. 5	673	-----	83	127
Cutting-machine .....	D. Brooks .....	601,868	Apr. 5	482	99	83	90
Cutting-machine .....	M. E. Card .....	616,823	Dec. 27	2956	696	85	2018
Cutting-machine .....	J. H. Taylor .....	601,719	Apr. 5	188	36, 37	83	37
Cutting-machine. Rotary .....	D. S. Clark .....	612,704	Oct. 18	1973	468 469	85	402
Cutting-off apparatus .....	J. B. Renshaw .....	610,330	Sept. 6	363	77, 78	84	1510
Cutting-off mechanism .....	F. B. Shuster .....	601,593	Mar. 29	3483	794	82	1966
Cutting-tool .....	F. E. Merriman .....	605,582	June 14	951	221	83	1556
Cyanids and ammonia. Making .....	T. F. Colin .....	598,195	Feb. 1	216	50	82	643
Cyanids and ammonia. Process of and apparatus for making .....	T. B. Fogarty .....	598,918	Feb. 15	1442	346	82	910
Cyanids. Apparatus for making .....	T. B. Fogarty .....	615,266	Dec. 6	86	23, 24	85	1430
Cyanids from furnace-gases. Apparatus for recovering .....	G. Craig .....	600,137	Mar. 8	991	221	82	1428
Cyanids from molasses-lyes. Making .....	H. Reichardt and J. Bueb .....	607,881	July 26	2518	534	84	540
Cyanids. Making .....	H. S. Blackmore .....	605,694	June 14	1168	-----	83	1595
Cyanids. Making .....	H. R. Vidal .....	596,641	Jan 4	323	-----	82	63
Cycle .....	S. E. French .....	597,843	Jan. 25	2396	558	82	516
Cycle .....	A. Hänsel .....	599,705	Mar 1	54	12	82	1227
Cycle .....	J. A. Wronski .....	606,323	June 28	2400	556	83	1866
Cycle adjustments. Apparatus for determining .....	C. T. Crowden .....	600,408	Mar. 8	1430	327	82	1512
Cycle and speed-tester. Combined .....	J. L. Males .....	600,229	Mar. 8	1135	259	82	1456
Cycle-canopy .....	L. D. Goodwin .....	597,845	Jan. 25	2400	558 559	82	516
Cycle chain-wheel .....	L. J. Wentzel .....	614,045	Nov. 8	1426	327	85	911
Cycle. Circle .....	E. I. Brannan .....	605,629	June 14	1052	212	83	1572
Cycle drive-wheel. Motor .....	C. E. Roberts .....	609,834	Aug. 30	3086	720	84	1315



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cycle driving apparatus .....	E. B. Killen .....	609,151	Aug. 16	1838	436 437	84	1041
Cycle driving-back .....	E. B. Killen .....	615,715	Dec. 13	908	211	85	1604
Cycle driving-gear .....	V. Wisniewski .....	616,386	Dec. 20	2178	508	85	1870
Cycle driving-gear. Chainless .....	J. A. N. and C. B. H. Rasmussen .....	616,559	Dec. 27	2510	581	85	1955
Cycle driving mechanism .....	J. Dredge .....	597,963	Jan. 25	2394	607	82	553
Cycle driving mechanism .....	G. G. M. Hardingham .....	616,534	Dec. 27	2468	571	85	1946
Cycle driving mechanism .....	J. T. Pedersen .....	613,393	Nov. 1	321	74	85	678
Cycle-frames. Means for making .....	F. A. Ellis .....	604,490	May 24	2344	532	83	1122
Cycle gear-case .....	W. H. and B. H. Jones .....	613,152	Oct. 25	2740	646	85	572
Cycle hand driving-gear .....	W. Taylor .....	605,559	June 14	906	211 212	83	1548
Cycle handle-bar .....	D. Gardner and E. B. Hartley .....	601,792	Apr. 5	327	66	83	62
Cycle handle-bar .....	F. S. Guy .....	604,981	May 31	3181	733	83	1301
Cycle handle-bar .....	J. F. Sargeant .....	603,542	May 3	556	122	83	708
Cycle handle-bar .....	H. G. Shepard .....	605,752	June 14	1257	290	83	1612
Cycle-handle-bar fastening attachment .....	E. H. Chappius .....	604,876	May 31	3014	692	83	1268
Cycle holder and lock. Combined .....	F. H. Richards .....	610,722	Sept. 13	1043	240	84	1660
Cycle-holder. Coin controlled .....	O. Schoeller .....	614,897	Nov. 29	3002	688	85	1258
Cycle-hubs. Apparatus for manufacturing .....	H. W. L. M. Bourke .....	616,764	Dec. 27	2889	670	85	2028
Cycle-lock .....	B. Dethlefsen and B. Feddersen .....	616,775	Dec. 27	2907	675	85	2031
Cycle-lock .....	C. Sangster .....	608,080	July 26	2872	614	84	612
Cycle mud-guard .....	H. Kiddier .....	614,007	Nov. 8	1372	313 314	85	900
Cycle or like framings. Machinery for making joints between parts of .....	C. Harvey .....	609,343	Aug. 16	2199	519 520	84	1112
Cycle or like wheel .....	W. Fraser .....	612,323	Oct. 11	1299	314	85	260
Cycle or other carriage .....	T. Sloper .....	614,183	Nov. 15	1669	384 385	85	979
Cycle package-holder .....	C. S. Coolidge .....	599,119	Feb. 15	1787	426	82	976
Cycle parts. Housing for screw-threaded .....	C. P. Birner .....	611,194	Sept. 20	1889	436	84	1840
Cycle-pedal .....	W. A. Lloyd and H. Keeling .....	604,251	May 17	1878	421	83	1014
Cycle-pedal and toe-clip therefor .....	C. d'Albert .....	600,251	Mar. 8	1178	267	82	1463
Cycle-pedal. Folding .....	W. J. Tanner .....	599,978	Mar. 1	556	128	82	1318
Cycle-race registering apparatus .....	A. L. Baird .....	610,639	Sept. 13	911	209	84	1632
Cycle-racing or exercising machine .....	G. J. Bones and L. H. Hart .....	613,962	Nov. 8	1296	294 295	85	884
Cycle running-gear. Motor .....	R. Gaertner .....	610,177	Sept. 6	46	11	84	1450
Cycle-saddle .....	C. F. Batt .....	615,129	Nov. 29	3454	792	85	1345
Cycle-saddle .....	J. B. Brooks .....	600,402	Mar. 8	1419	324 325	82	1510
Cycle-saddle .....	J. B. Brooks .....	606,160	June 21	2079	478 479	83	1782
Cycle-saddle .....	W. Clifford .....	603,943	May 10	1269	288	83	863
Cycle-saddle .....	D. M. B. H. Cochrane .....	610,429	Sept. 6	543	119	84	1542
Cycle-saddle .....	R. W. Jamieson .....	608,682	Aug. 9	926	213	84	858
Cycle-saddle .....	T. J. Kirkpatrick .....	603,789	May 10	987	221	83	809
Cycle-saddle .....	A. Pillatt .....	600,799	Mar. 15	2125	486	82	1663
Cycle speed-gearing .....	S. L. Smith .....	609,170	Aug. 16	1873	446	84	1046
Cycle sprocket attachment .....	W. H. Binns .....	610,152	Aug. 30	3620	841	84	1422
Cycle-stand .....	G. T. Chapman .....	614,086	Nov. 15	1508	345	85	948
Cycle time, speed, and distance indicating mechanism .....	T. F. Gaynor and W. A. Washburne .....	598,598	Feb. 8	906	218	82	793
Cycle umbrella-holder .....	A. T. Woodward .....	604,674	May 24	2658	609	83	1182
Cycle. Water .....	E. O. Windquist and E. Olsson .....	612,920	Oct. 25	2375	566	85	498
Cycle-wheel .....	W. J. R. Watson .....	603,160	Apr. 26	2717	618	83	562
Cycles, &c. Apparatus for reducing vibration in .....	F. Beauchamp .....	615,521	Dec. 6	570	130	85	1522
Cycles with adjustable gearing. Driving mechanism for .....	F. H. Vagt .....	611,210	Sept. 20	1918	443	84	1845
Cyclist's brace and back-support .....	W. C. Humphrey .....	604,677	May 24	2662	610	83	1183
Cyclist's pouch .....	P. W. Deacon and A. Timpe .....	605,308	June 7	478	107	83	1443
Cyclist's riding-record .....	H. S. Brodie .....	602,053	Apr. 12	803	174	83	163
Cyclometer .....	E. G. Dorchester .....	599,320	Feb. 22	2144	509 510	82	1065
Cyclometer and time-recorder for vehicles. Combined .....	F. Street .....	600,811	Mar. 15	2141	489	82	1666
Cyclone-vault .....	D. H. Hanlon .....	603,948	May 10	1276	290	83	865
Cylinder-heads. Device for removing .....	G. W. Bissett .....	597,136	Jan. 11	1191	280	82	248
Cylinder-lock .....	C. O. Noack .....	608,069	July 26	2859	611	84	610
Cylinder-lock and key .....	Mouat, Jr. .....	598,469	Feb. 1	682	167	82	732
Cylinder or tank head .....	J. T. Morse .....	612,050	Oct. 11	821	201	85	171
Dadoing and tenoning machine .....	A. Kohler .....	613,156	Oct. 25	2745	647	85	573
Dam for repairing breaks in levees .....	W. H. Schneider .....	616,690	Dec. 27	2768	644	85	2003
Dam. gate, or weir. Automatic .....	W. L. Marshall .....	596,755	Jan. 4	533	122 123	82	103
Dam. Water .....	J. Whitehead .....	596,644	Jan. 4	325	70	82	64
Dampening-machine .....	E. W. Buell .....	600,191	Mar. 8	1078	244	82	1445
Damper .....	C. M. and T. M. Johnson .....	613,151	Oct. 25	2739	646	85	572
Damper-controller and automatic indicator .....	C. S. Hood .....	602,450	Apr. 19	1491	340 341	83	313
Damper-fastener for stoves or stovepipes .....	J. H. Benson and L. Greenwald .....	609,135	Aug. 16	1813	431	84	1086
Damper for registers. Automatic .....	S. B. Jungkurth .....	596,709	Jan. 4	452	102	82	88
Damper-governor .....	C. Kummer and L. Bertrand .....	600,966	Mar. 22	2399	547	82	1729
Damper. Grate .....	F. W. Keifel, Jr., and J. Zipp .....	599,335	Feb. 22	2173	516	82	1070
Damper handle. Stove .....	J. J. Oyaas .....	602,644	Apr. 19	1824	416	83	375
Damper operating mechanism. Chimney .....	F. M. Clotworthy .....	611,057	Sept. 20	1640	375	84	1792
Damper-regulator .....	L. D. Collins .....	613,005	Oct. 25	2511	598	85	526
Damper-regulator .....	E. K. Hutchison .....	608,966	Aug. 9	1460	345 346	84	956
Damper-regulator .....	G. F. Patterson .....	600,843	Mar. 15	2196	502	82	1677
Damper-regulator. Automatic .....	C. F. Wood .....	607,900	July 26	2548	540	84	546
Damper. Stove .....	W. J. Keep and W. V. Robinson .....	600,080	Mar. 1	824	190	82	1375
Damper. Ventilating .....	R. L. Underwood .....	607,669	July 19	2104	439	84	443
Dampers, &c. Electrically-operated regulator for .....	G. F. Richardson .....	616,358	Dec. 20	2130	496	85	1861
Dashboard. Tilting .....	G. H. and G. H. Hutton, Jr .....	612,204	Oct. 11	1080	258	85	221
Dashboard. Tilting .....	G. H. and G. H. Hutton, Jr .....	612,205	Oct. 11	1081	259	85	221



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Dead-centers. Mechanism for overcoming .....	W. H. Johnson .....	612,345	Oct. 11	1335	322 323	85	267
Deaf to hear. Appliance for enabling the .....	R. B. G. Gardner .....	608,255	Aug. 2	149	37	84	684
Decanting or drawing off wines or other liquids. Apparatus for .....	G. Gray .....	601,077	Mar. 22	2583	589	82	1763
Decoctions and infusions. Apparatus for making .....	W. B. Spencer .....	598,445	Feb. 1	648	160	82	726
Decomposing solid substances. Process of and apparatus for .....	W. S. Romme .....	606,981	July 5	598	131	84	119
Decorticating apparatus .....	J. M. MacDonald .....	597,993	Jan. 25	2653	620	82	564
Dehorner .....	B. A. Bullock .....	601,996	Apr. 5	711	151	83	134
Dehorning clipper .....	J. and C. E. Arms .....	610,669	Sept. 13	954	220	84	1641
Delivery apparatus. Coin-controlled .....	A. C. Hammond, Jr., and F. Weegmann .....	614,103	Nov. 15	1533	352	85	953
Delivery machine Single .....	A. E. Hughes .....	614,109	Nov. 15	1547	354 355	85	955
Delivery-sheet holder .....	J. W. Grothier .....	607,034	July 12	720	154	84	161
Demagnetizing device .....	H. A. Storrs .....	599,304	Feb. 15	2097	497	82	1034
Demijohn .....	G. Beccaro .....	608,824	Aug. 9	1205	281	84	907
Demijohn .....	I. M. Schellinger .....	604,089	May 17	1586	355	83	958
Demijohn safety attachment .....	J. Lenormand .....	607,935	July 26	2612	555	84	558
Dental appliance .....	J. Weiss .....	598,235	Feb. 1	289	65	82	657
Dental articulator .....	J. W. Moffitt .....	613,772	Nov. 8	983	225	85	824
Dental base-plate .....	W. R. Evans .....	606,198	June 28	2151	493	83	1816
Dental bridgework .....	C. A. Davis and E. L. Townsend .....	605,403	June 7	668	148	83	1481
Dental chair .....	M. C. Merker .....	605,255	June 7	376	85, 86	83	1422
Dental chair .....	F. Ritter .....	605,974	June 21	1728	397 398	83	1718
Dental chair .....	N. M. Rose .....	596,667	Jan. 4	369	82	82	73
Dental-chair-bracket attachment .....	J. A. W. Lundborg .....	613,842	Nov. 8	1101	251	85	846
Dental-chair cuspidor .....	F. G. McCollum .....	603,280	May 3	64	16	83	613
Dental-chair head rest .....	A. W. Browne .....	612,660	Oct. 18	1901	450 451	85	388
Dental cuspidor .....	G. Booth .....	597,384	Jan. 18	1602	372	82	346
Dental disk-mandrel .....	J. E. Keefe .....	604,355	May 17	2083	467	83	1054
Dental engine .....	C. Brown .....	614,829	Nov. 29	2864	659	85	1232
Dental engine .....	M. H. Hopfer .....	612,902	Oct. 25	2351	560	85	493
Dental engine .....	A. E. Macdonald .....	612,590	Oct. 18	1756	416	85	360
Dental engine .....	A. J. McDonald .....	604,836	May 31	2940	672	83	1254
Dental engine .....	A. J. McDonald .....	604,837	May 31	2942	672 673	83	1254
Dental engine .....	L. T. E. Methot .....	600,924	Mar. 22	2336	531	82	1716
Dental engine .....	J. D. Smith .....	598,295	Feb. 1	404	95	82	678
Dental engine .....	J. D. Wilkens .....	610,214	Sept. 6	111	25	84	1462
Dental-engine controller. Electric .....	J. J. Coachman .....	603,524	May 3	528	116 117	83	702
Dental-engine handpiece .....	A. W. Browne .....	606,755	July 5	224	48	84	46
Dental-engine handpiece .....	J. W. Gilbert .....	601,395	Mar. 29	3165	715	82	1901
Dental fountain-cuspidor .....	W. N. Avery .....	612,655	Oct. 18	1892	448	85	386
Dental grindstones. Wetter and wiper for .....	O. E. Braun .....	597,235	Jan. 11	1346	315	82	277
Dental-handpiece angle attachment .....	H. Case and E. D. Shaw .....	600,243	Mar. 8	1159	264	82	1461
Dental-handpiece tool-holder .....	C. P. Fritz .....	610,483	Sept. 6	639	143	84	1561
Dental impression material .....	L. L. White .....	603,803	May 10	1014	226	83	815
Dental instrument .....	W. O. Talbot .....	607,295	July 12	1242	265	84	256
Dental jaw-brace .....	R. L. Halperin .....	606,781	July 5	282	58	84	56
Dental matrix retainer .....	J. W. Ivory .....	606,460	June 28	2659	612	82	1916
Dental-matrix retainer .....	J. M. Strout .....	601,178	Mar. 22	2755	633	82	1796
Dental-matrix retainer .....	J. M. Strout .....	613,947	Nov. 8	1275	289	85	880
Dental mouth mirror .....	C. Harnden .....	606,456	June 28	2653	610	83	1915
Dental plate .....	J. S. Naulder .....	615,404	Dec. 6	357	85	85	1482
Dental plate .....	J. S. Naulder .....	615,405	Dec. 6	356	86	85	1482
Dental-plate-swaging apparatus .....	J. H. Gartrell .....	605,223	June 7	310	71	83	1410
Dental pliers .....	E. H. Angle .....	610,540	Sept. 13	1255	289	84	1702
Dental plugger .....	F. S. Avil .....	605,171	June 7	202	51	83	1389
Dental plugger .....	A. Bush .....	608,150	July 26	2983	640	84	634
Dental plugger .....	W. V. Elliott .....	614,376	Nov. 15	2046	472	85	1049
Dental plugger .....	W. E. Hanson .....	608,984	Aug. 9	1500	355	84	964
Dental plugger .....	F. L. Marshall .....	597,469	Jan. 18	1761	408	82	376
Dental plugger .....	J. W. Tenny and R. T. McCracken .....	611,531	Sept. 27	2549	588	84	1983
Dental rubber-dam clamp Adjustable .....	A. S. Cooper .....	615,808	Dec. 13	1074	252	85	1636
Dental saw handpiece and frame .....	J. F. Snedaker .....	615,316	Dec. 6	164	43	85	1445
Dental separator .....	C. G. Capwell .....	600,257	Mar. 8	1188	269	82	1465
Dental-spittoon .....	F. Hurlbut. (Reissue) .....	11,696	Sept 27	2685	620 621	84	2008
Dental tool .....	L. E. Hendrickson and C. H. Read .....	610,987	Sept. 20	1523	350	84	1769
Dental tool .....	J. H. Jackson .....	614,723	Nov. 22	2689	613	85	1181
Dentist's arm-support .....	L. P. J. V. Kjoer .....	602,084	Apr. 12	853	186	83	173
Denture. Artificial .....	E. L. Chaffin .....	601,703	Apr. 5	136	27	83	29
Deodorizing and purifying petroleum-oil .....	J. Bragg .....	604,515	May 24	2382	.....	83	1128
Depilatory .....	A. H. Stone .....	599,812	Mar. 1	259	.....	82	1262
Derailer. Automatic .....	G. C. Sharpe .....	599,362	Feb. 22	2232	530	82	1082
Derailing device .....	D. Anderson and D. Bevan .....	611,548	Sept. 27	2587	596	84	1990
Derrick .....	E. R. Shnable .....	600,093	Mar. 1	856	197	82	1382
Derrick. Crane .....	F. V. Fuller .....	596,868	Jan. 4	723	169	82	141
Derrick. Farm-yard .....	C. A. and O. J. Bantz .....	614,075	Nov. 15	1481	340	85	943
Derrick for raising or lowering telegraph poles .....	M. T. Gordon .....	608,193	Aug. 2	48	12	84	664
Derrick. Stiff-leg or guy .....	E. F. Terry .....	614,518	Nov. 22	2310	529	85	1111
Desk .....	W. H. Baker .....	603,162	Apr. 26	2720	618	83	562
Desk .....	C. Fasoldt .....	610,439	Sept. 6	559	123	84	1545
Desk and seat. Combined .....	A. D. Linn .....	615,867	Dec. 13	1167	272	85	1653
Desk and seat. Combined school .....	J. B. Burfoot .....	605,268	June 7	407	92	83	1429
Desk attachment .....	W. H. Carrier .....	606,514	June 28	2736	632	83	1932
Desk attachment .....	W. W. Murray .....	607,187	July 12	1037	224	84	217
Desk attachment .....	G. E. Wells .....	613,403	Nov. 1	348	80	85	682
Desk attachment for chairs, &c .....	J. Tremearne .....	599,069	Feb. 15	1704	404	82	961
Desk attachment. School .....	W. Hummell .....	596,511	Jan. 4	85	20	82	19
Desk clamp. School .....	A. D. Linn .....	598,674	Feb. 8	1044	251	82	817



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Desk. Combination-----	G. W. Crocker, Jr. ....	612,486	Oct. 18	1579	377	85	328
Desk. Drawing-----	F. Oswald .....	616,347	Dec. 20	2105	490 491	85	1856
Desk file holding drawer-----	W. Horrocks .....	613,631	Nov. 1	730	170	85	756
Desk lid hinge and support. Combined-----	F. W. Tobey .....	597,309	Jan. 11	1458	342	82	300
Desk. Movable-top writing-----	J. M. Schunck and A. L. Zender .....	606,090	June 21	1957	450	83	1760
Desk or table attachment for furniture-----	E. Hughes .....	604,008	May 10	1426	319	83	898
Desk pads. &c. Corner-fastening for-----	J. W. Winget .....	616,385	Dec. 20	2177	508	85	1870
Desk. School-----	A. H. Kennedy .....	601,876	Apr. 5	495	102	83	93
Desk. School-----	T. J. Thorp .....	598,685	Feb. 8	1068	257 258	82	822
Desk Writing-----	H. Heine .....	602,326	Apr. 12	1278	282 283	83	258
Desulfurizing apparatus-----	A. de Figanière .....	612,717	Oct. 18	1996	473	85	406
Detecting, notifying, or preventing theft. Device for-----	G. H. Morris .....	616,129	Dec. 20	1678	391	85	1769
Detergent composition and making same-----	J. W. Sallade .....	607,663	July 19	2097		84	442
Detector. See Time-detector.							
Diamond cutting and polishing. Dop for-----	H. Cooper .....	609,141	Aug. 16	1821	432	84	1037
Diamond grinding and polishing machine-----	L. H. Stern and T. W. G. Cook .....	605,193	June 7	242	58	83	1397
Diamond-polishing machine-----	A. Wauters .....	616,377	Dec. 20	2163	504	85	1867
Diamond-polishing tool-----	J. W. Lyon .....	615,083	Nov. 29	3376	774	85	1329
Diaphragm-chamber-----	A. Roesch .....	602,108	Apr. 12	898	195	83	182
Dice-box-----	A. J. Welander .....	602,672	Apr. 19	1883	428	83	386
Die: See Forming-die. Screw-cutting die. Plumber's screw-threading die. Shovel-forming die. Tile-die.							
Die for rolled forgings-----	F. H. Hathorn .....	603,637	May 10	730	163	83	758
Die-press carrier-----	E. Tyden .....	616,213	Dec. 20	1845	427	85	1803
Die-stock-----	W. H. Sweitzer .....	603,930	May 10	1250	284	83	859
Die-stock bushing-----	G. P. Bard .....	606,774	July 5	268	56	84	54
Dies. Blank for making-----	A. J. Bradley .....	610,024	Aug. 30	3427	794	84	1382
Diffusion-battery-----	J. Périchon .....	615,893	Dec. 13	1211	283 284	85	1662
Digester-----	J. Prisley .....	611,393	Sept. 27	2307	532	84	1937
Digester and protecting same-----	J. L. Coker, Jr. ....	609,733	Aug. 23	2904	680	84	1266
Digger: See Potato-digger.							
Digging machine. Beet-----	L. Pike .....	601,904	Apr. 5	542	112	83	102
Digging or cultivating implement. Land-----	T. A. and S. C. Darby .....	605,086	June 7	30	9, 10	83	1358
Dilator. Thermal-----	J. R. Hamilton .....	612,724	Oct. 18	2008	477	85	408
Dilator. Vaginal-----	A. F. Holland .....	605,547	June 14	880	206	83	1543
Dining-table. Self-leveling marine-----	J. H. Laskey .....	604,831	May 31	2933	671	83	1253
Dipper-----	R. S. Dimmock .....	600,715	Mar. 15	1990	453	82	1637
Dipper-----	D. W. Harper .....	609,431	Aug. 23	2352	555	84	1161
Direct-acting engine-----	A. Ball .....	603,358	May 3	194	44	83	639
Direct-acting engine-----	W. J. Lewis .....	598,154	Feb. 1	134	31	82	628
Direct-acting engine-----	J. P. Simmons .....	613,805	Nov. 8	1047	238	85	836
Direct-acting engine-----	J. P. Simmons .....	613,806	Nov. 8	1048	238	85	837
Directory and bulletin. School-room-----	J. S. McClung .....	598,384	Feb. 1	536	131	82	704
Directory. Office and building-----	J. A. Brown .....	596,959	Jan. 4	880	207	82	171
Dirt roller and pulverizer. Combined-----	L. Chambers .....	605,160	June 7	187	47	83	1386
Discharge-openings of receptacles. Closing device for-----	L. Hirt .....	612,627	Oct. 18	1840	436	85	377
Diseases. Device for treating rectal-----	F. M. Korb .....	601,345	Mar. 29	3083	696	82	1886
Dish-cleaner-----	M. D. Colbath .....	597,957	Jan. 25	2587	604	82	552
Dish-cleaner-----	M. D. Colbath .....	611,607	Oct. 4	23	6	85	7
Dish-cleaner-----	C. Fellows .....	601,508	Mar. 29	3357	761	82	1940
Dish-cleaner-----	W. E. Leonard and C. O. Hescox ..	607,515	July 19	1819	378 379	84	391
Dish-cleaner-----	W. I. McCausland .....	598,432	Feb. 1	630	155	82	723
Dish-cleaner-----	R. R. Parry and E. Evans .....	604,634	May 24	2588	590 591	83	1168
Dish-cleaner-----	R. G. Ping .....	601,275	Mar. 29	2961	670	82	1863
Dish-cleaner-----	A. Ricketts .....	603,153	Apr. 26	2709	616	83	560
Dish-cleaner-----	R. F. Rightmire .....	607,134	July 12	938	204	84	199
Dish-cleaner-----	E. Shaw .....	603,580	May 3	608	135	83	719
Dish-cleaner-----	I. D. Smead .....	605,929	June 21	1637	376	83	1702
Dish-cleaner-----	E. E. Sparr .....	600,182	Mar. 8	1063	240	82	1442
Dish. Crushed-fruit-----	G. Bohner .....	599,651	Feb. 22	2795	650	82	1193
Dish-drainer-----	M. L. Perrottet .....	605,336	June 7	524	117	83	1453
Dish-drainer-----	H. M. Tschopp .....	611,533	Sept. 27	2551	589	84	1983
Dish-draining apparatus-----	G. Bonham .....	614,827	Nov. 29	2861	658	85	1231
Dish-washer-----	H. H. Tuttle .....	616,372	Dec. 20	2150	500 501	85	1865
Dish-washer and churn. Combined-----	J. H. Whiting and D. Lillibridge ..	614,522	Nov. 22	2316	531	85	1112
Dishing machine. Plate-----	C. L. Huston .....	601,566	Mar. 29	3443	782	82	1958
Disinfectant-holder-----	D. N. Calkins .....	597,811	Jan. 25	2343	547	82	505
Disinfecting apparatus-----	F. Carman .....	597,894	Jan. 25	2475	578	82	530
Disinfecting apparatus-----	J. Evetts .....	604,562	May 24	2470	561	83	1145
Disinfecting apparatus-----	F. Gizzi .....	606,338	June 28	2436	564	83	1872
Disinfecting apparatus-----	P. Kirschen .....	615,858	Dec. 13	1154	269	85	1651
Disinfecting apparatus-----	W. A. La Fave .....	598,103	Feb. 1	58	14	82	614
Disinfecting apparatus-----	E. D. Lewis .....	598,053	Jan. 25	2748	641	82	583
Disinfecting apparatus-----	F. J. Mitchell .....	603,012	Apr. 26	2465	560	83	512
Disinfecting apparatus for water-closets, &c.-----	W. G. Ashburner .....	607,818	July 26	2384	506	84	516
Disks. Mechanism for controlling action of oscillating-----	J. Thomson .....	602,376	Apr. 12	1358	304	83	274
Dispensing-case-----	J. W. Hutchison and D. H. and L. Bumpus. }	614,000	Nov. 8	1361	309 310	85	898
Display box-----	G. W. Frohlich .....	605,248	June 7	355	81	83	1418
Display-box-----	A. M. Hance .....	604,190	May 17	1772	399	83	995
Display-box. Counter-----	C. E. Davis .....	611,063	Sept. 20	1648	377	84	1793
Display cabinet-----	F. E. Halden .....	606,714	July 5	144	30	84	30



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Display cabinet. Card.....	W. H. Wickers .....	604,221	May 17	1826	409	83	1005
Display-cabinet. Illuminated.....	F. A. Daly .....	616,826	Dec. 27	2991	697	85	2049
Display-card.....	J. E. Hills .....	615,702	Dec. 13	890	206	85	1601
Display-card.....	H. T. Smith .....	605,351	June 7	569	125	83	1460
Display-case.....	W. H. Gassaway .....	612,328	Oct. 11	1307	316	85	261
Display-case. Revolving.....	J. Mandel .....	615,032	Nov. 29	3281	755	85	1313
Display-cover for barrels, &c.....	C. P. Coy .....	600,574	Mar. 15	1752	400	82	1592
Display device.....	J. A. Love .....	609,823	Aug. 30	3070	716	84	1312
Display device for confectionery.....	W. E. and G. F. Schrafft .....	610,247	Sept. 6	192	43	84	1479
Display device. Sample.....	M. Steinthal .....	612,463	Oct. 18	1540	369	85	320
Display-fixtures for stores.....	E. T. Palmenberg .....	605,678	June 14	1140	265	83	1590
Display-frame.....	J. C. Palmer .....	602,099	Apr. 12	884	192	83	179
Display hat-top.....	E. Leger .....	604,988	May 31	3118	716	83	1289
Display-holder for shoestrings.....	J. K. Gaines .....	616,657	Dec. 27	2701	627	85	1990
Display-last. Pneumatic.....	W. J. Thill .....	605,239	June 7	335	77	83	1414
Display-machine.....	A. F. C. Lotz .....	603,109	Apr. 26	2633	598	83	544
Display package. Embroidery.....	A. M. Galland .....	613,366	Nov. 1	270	61	85	669
Display-rack.....	J. M. Beckwith .....	599,925	Mar. 1	472	106	82	1303
Display-rack.....	W. Best, Sr .....	610,163	Sept. 6	6	2	84	1444
Display-rack.....	E. S. Robbins .....	605,016	May 31	3240	745	83	1313
Display-rack.....	W. F. Scott .....	597,530	Jan. 18	1854	430	82	394
Display-rack.....	W. F. Scott .....	599,799	Mar. 1	211	52	82	1255
Display-rack.....	H. D. Wells .....	606,610	June 28	2922	677 678	83	1967
Display-rack and measurer.....	J. W. Morrison and J. E. Tracy .....	613,931	Nov. 8	1248	284	85	875
Display-rack. Washboard.....	L. R. Williams .....	614,195	Nov. 15	1695	389	85	983
Display-stand.....	W. M. Baker .....	605,622	June 14	1044	240	83	1571
Display-stand.....	G. H. Burnham .....	605,307	June 7	478	107	83	1443
Display-stand.....	H. Klein .....	614,479	Nov. 22	2251	515	85	1101
Display-stand.....	P. Miller .....	606,842	July 5	390	83	84	78
Display-stand.....	C. S. Stoner .....	313,609	Nov. 1	697	161	85	749
Display stand. Necktie.....	A. W. Graham .....	598,507	Feb. 8	752	181	82	762
Display-support.....	J. J. Slattery .....	600,599	Mar. 15	1793	410	82	1600
Displaying photographs, pictures, &c. Device for.....	B. S. Whitehead .....	607,104	July 12	885	191	84	190
Displaying pictures, &c. Device for.....	R. Sylvester .....	605,148	June 7	167	42	83	1382
Displaying pictures, advertisements, &c. Device for.....	R. Sylvester .....	606,173	June 21	2103	483	83	1787
Displaying price-cards. Apparatus for.....	J. S. Menagh .....	609,359	Aug. 16	2221	525	84	1117
Displaying stand. Hat.....	L. Wellock .....	607,310	July 12	1268	270	84	261
Distance traveled by cars, &c. Mechanism for indicating.....	J. H. Whiting .....	606,258	June 28	2289	529	83	1844
Distiller. Domestic water.....	J. E. Hicks .....	611,123	Sept. 20	1772	406	84	1818
Distilling apparatus.....	J. Stocker .....	614,776	Nov. 22	2770	633	85	1198
Distilling apparatus. Acid.....	E. Hart .....	603,508	May 3	496	109	83	697
Distilling apparatus. Fluid.....	J. A. Todd and H. G. Smith .....	616,277	Dec. 20	1978	460	85	1831
Distilling apparatus. Water.....	J. Stretch .....	604,550	May 24	2450	557	83	1140
Distilling extracts.....	J. W. Lathrop .....	606,789	July 5	295	61	84	59
Ditches. Self-clearing screen for.....	N. Lamb .....	597,241	Jan. 11	1356	317	82	279
Ditching-jack.....	H. Heer, Jr .....	597,849	Jan. 25	2406	560	82	518
Ditching-machine.....	J. H. Clark .....	606,987	July 5	607	132 133	84	120
Ditching-machine.....	J. G. Dillahay .....	603,557	May 3	580	128	83	713
Ditching-machine.....	J. W. Humphreys .....	607,688	July 19	2126	446	84	448
Ditching-machine.....	W. H. Scott .....	601,106	Mar. 22	2628	600	82	1772
Ditching-machine.....	W. Wilgus .....	616,382	Dec. 20	2172	506	85	1869
Dividers.....	F. H. De Tray .....	598,911	Feb. 15	1430	344	82	908
Dividers or compasses.....	F. Benes .....	613,814	Nov. 8	1065	242	85	839
Dividing-machine.....	N. M. Saati .....	613,425	Nov. 1	394	90	85	691
Diving apparatus.....	W. K. Crawford .....	616,409	Dec. 20	2220	518	85	1878
Diving apparatus.....	J. and G. Day .....	609,418	Aug. 23	2333	550 551	84	1157
Diving apparatus.....	W. R. Fasey .....	601,729	Apr. 5	204	40	83	40
Diving apparatus.....	E. F. W. Schoennauer .....	614,626	Nov. 22	2508	572 573	85	1147
Diving-armor.....	J. J. Devine .....	609,085	Aug. 16	1703	405 406	84	1017
Dock. Floating.....	L. E. Clark .....	601,554	Mar. 29	3427	778	82	1955
Dock. Floating.....	J. J. Cousins .....	601,431	Mar. 29	3225	727	82	1913
Dock. Pneumatic differential dry.....	C. N. Dutton .....	615,440	Dec. 6	416	100 101	85	1493
Domestic press.....	G. W. Pelton .....	608,268	Aug. 2	168	41	84	688
Doll.....	E. Verpillier and C. W. Graves .....	604,243	May 17	1865	418	83	1012
Doll-heads. Coloring.....	O. Zeh .....	603,216	Apr. 26	2802	—	83	577
Door.....	B. A. Stevens .....	615,318	Dec. 6	166	43	85	1445
Door and window-screen. Screen.....	L. F. Arno .....	609,723	Aug. 23	2891	676	84	1263
Door barricade-alarm.....	G. D. Winters .....	605,366	June 7	602	134	83	1466
Door-buffer.....	J. F. Förster .....	603,785	May 10	978	218	83	807
Door-catch.....	W. I. Ludlow .....	600,155	Mar. 8	1021	230	82	1434
Door-check.....	C. F. Hanington .....	601,890	Apr. 5	389	82	83	73
Door-check.....	J. Horsfield .....	615,707	Dec. 13	895	207	85	1601
Door-check.....	A. J. Johnston .....	597,881	Jan. 25	2457	573	82	527
Door-check.....	P. J. Lennart .....	608,462	Aug. 2	523	117	84	759
Door-check.....	P. J. Lennart .....	615,074	Nov. 29	3361	770 771	85	1327
Door-check.....	N. C. Merrill .....	615,034	Nov. 29	3285	756	85	1314
Door-check.....	J. T. Mumford .....	597,425	Jan. 18	1675	389	82	358
Door-check.....	F. H. Ogden .....	602,687	Apr. 19	1906	434 435	83	391
Door-check.....	F. H. Ogden .....	602,688	Apr. 19	1909	435	83	392
Door-check.....	F. Rock .....	598,664	Feb. 8	1027	248	82	814
Door-check.....	J. Scheibe .....	598,442	Feb. 1	642	158	82	725
Door-check.....	N. Shaw .....	609,214	Aug. 16	1958	464	84	1064
Door-check.....	G. W. Warner .....	614,909	Nov. 29	3024	692	85	1261
Door check and closer.....	F. T. Russell .....	598,010	Jan. 25	2682	625 626	82	570
Door-check. Pneumatic.....	W. K. Henry .....	597,715	Jan. 25	2168	507	82	472



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				Spec.	Dr'g.	Vol.	Page.
Door-check. Pneumatic	J. Horsfield	610,447	Sept. 6	571	126	84	1548
Door checks and closers. Lever connection for	C. O. Case	599,415	Feb. 22	2332	551	82	1102
Door-closer	C. Breed	604,716	May 31	2755	630	83	1219
Door-closer and check	J. P. Magney	598,379	Feb. 1	527	128	82	702
Door-closer and check. Combined	G. Ashley	605,836	June 21	1453	333	83	1667
Door-closer. Automatic electric	C. E. Scribner	599,800	Mar. 1	212	52	82	1255
Door dust and cold guard	G. Everson	603,480	May 3	431	96	83	684
Door-fastener	H. B. Butts	603,477	May 3	427	95	83	683
Door-fastener	H. B. Butts	604,852	May 31	2968	681	83	1259
Door-fastener	L. J. Gamble	610,624	Sept. 13	886	203	84	1628
Door-fastener	C. M. Perrier	612,528	Oct. 18	1639	391	85	339
Door-fastener	W. H. Plimpton	605,809	June 14	1381	317	83	1634
Door fastener. Sliding	J. R. Washburn	607,495	July 19	1787	371	84	386
Door fastening. Screen	E. J. Hagan	604,468	May 24	2300	523	83	1114
Door fixture. Sliding	C. R. Case	602,727	Apr. 19	1970	447	83	404
Door fixture. Sliding	C. R. Case	602,729	Apr. 19	1973	448	83	404
Door. Flexible	A. S. Spaulding	615,464	Dec. 6	463	108	85	1501
Door. Flush sliding	D. Manuel	609,893	Aug. 30	3183	746	84	1334
Door. Gable	A. McNish	605,899	June 21	1575	362	83	1690
Door-guard	J. B. Burton	603,620	May 10	698	156	83	752
Door-guard	J. F. Nagley	613,592	Nov. 1	667	154	85	743
Door guide and closer. Sliding	C. F. Agard	609,605	Aug. 23	2673	624	84	1220
Door-hanger	W. S. Boyer	610,598	Sept. 13	850	195	84	1620
Door-hanger	R. B. Browne	615,674	Dec. 13	843	195	85	1591
Door-hanger	G. C. Gardner	599,498	Feb. 22	2503	590	82	1134
Door-hanger	J. E. Hartman	606,659	July 5	40	10	84	10
Door-hanger	J. F. Hickey	598,372	Feb. 1	519	126	82	700
Door-hanger	P. Johnson	608,129	July 26	2949	632	84	627
Door-hanger	E. Y. Moore	610,409	Sept. 6	514	112	84	1537
Door-hanger	V. M. Moore	606,808	July 5	328	69	84	66
Door-hanger	D. Nickel	604,887	May 31	3030	696	83	1272
Door-hanger	K. Osel	615,492	Dec. 6	508	118	85	1510
Door-hanger	J. E. Owen, J. C. Gabel, Jr., and G. F. McKinney	606,077	June 21	1935	443	83	1754
Door-hanger	A. Rochwite	611,395	Sept. 27	2310	533	84	1937
Door-hanger ball-bearing roller	T. C. Prouty	613,602	Nov. 1	687	158	85	747
Door-hanger-rail joint	G. C. Gardner	596,493	Jan. 4	51	11	82	13
Door-hanger track	E. Gadbois	613,262	Nov. 1	63	15	85	629
Door-holder	G. Hall	610,399	Sept. 6	494	108	84	1534
Door-holder	H. B. Sargent	613,427	Nov. 1	396	91	85	692
Door holder and bolt	R. North	610,146	Aug. 30	3610	839	84	1420
Door holder and lock. Combined	W. H. Murray	607,122	July 12	917	199	84	196
Door-key	W. H. Daggett	598,560	Feb. 8	843	201	82	780
Door knocker and alarm	R. D. Coggeshall	602,573	Apr. 19	1694	385	83	350
Door-lock	O. Berry	612,086	Oct. 11	884	214	85	183
Door-lock	A. Fowler and P. N. Green	612,095	Oct. 11	901	218	85	187
Door-lock	J. Jackson	614,052	Nov. 8	1435	330	85	913
Door-lock	J. Ohring	615,571	Dec. 6	658	151	85	1540
Door-lock. Recording	E. L. Smith	597,917	Jan. 25	2512	588	82	537
Door lock. Sliding	P. G. Emery	605,816	June 14	1397	320	83	1637
Door lock. Sliding	J. Kaye	600,584	Mar. 15	1771	404	82	1595
Door lock. Sliding	E. McKean	596,757	Jan. 4	541	124	82	104
Door locking-bar	H. Boyles	596,956	Jan. 4	873	205	82	170
Door-mat	J. W. Snedeker	602,608	Apr. 19	1754	400	83	362
Door-mat	C. Spickermann	612,065	Oct. 11	846	206	85	176
Door-opener. Automatic	W. H. Frazier and C. M. Einfeldt	612,324	Oct. 11	1300	314	85	260
Door-operating appliance	H. Bennik	606,640	July 5	5	1,2	84	4
Door-operating mechanism	A. Dittmar	603,895	May 10	1191	269	83	848
Door or transom stop	H. C. Chaplin	597,895	Jan. 25	2477	578	82	531
Door or window securer	C. S. Hamilton	596,501	Jan. 4	62	14	82	15
Door or window screen	J. H. Koons	607,882	July 12	1403	299	84	288
Door, partition, &c. Metal	W. R. Kinnear	603,106	Apr. 26	2628	597	83	543
Door raising or lowering device. Cellar	F. J. Clinkinbeard	597,457	Jan. 18	1740	402	82	372
Door roller attachment. Sliding	D. W. Tower	597,310	Jan. 11	1459	342	82	300
Door-saddle	R. Wilson	600,984	Mar. 22	2433	556	82	1734
Door. Scuttle	E. Burger	598,975	Feb. 15	1553	369	82	931
Door-securer	E. H. Roth	616,144	Dec. 20	1721	399	85	1777
Door-securer	R. D. Williams	598,405	Feb. 1	567	138	82	711
Door-spring	J. M. Gillihan	611,997	Oct. 4	707	170	85	138
Door-spring	O. Voigtlander	611,024	Sept. 20	1584	363	84	1781
Door spring and check	H. Porter	602,645	Apr. 19	1825	416	83	375
Door spring and check. Combined	A. and C. Scheid	611,285	Sept. 27	2095	482	84	1899
Door-stop	G. Bortman and R. Munkwitz	610,886	Sept. 20	1342	307	84	1736
Door-stop	O. C. Conerly	613,356	Nov. 1	248	56	85	665
Doors and holding same. Machine for lifting	R. Müller	604,833	May 31	2936	671	83	1253
Doors, &c. Check for	J. L. Zesiger. (Reissue)	11,684	July 26	3017	649	84	639
Doors, &c. Clamping device for supporting	O. M. Smith	611,340	Sept. 27	2189	506	84	1916
Doors. Corner-joint for screen	T. H. Ayres and O. D. Elbel	612,452	Oct. 18	1517	365	85	316
Doors. Double sliding	A. G. Bierbach	599,490	Feb. 22	2493	586	82	1132
Double-action jack	E. T. Trefethen	613,949	Nov. 8	1277	290	85	880
Double or compound fork	E. M. Bradley	606,372	June 28	2495	580	83	1883
Doubletree	J. Finley	604,916	May 31	3088	709	83	1283
Doubletree	J. W. Shepperd	602,478	Apr. 19	1538	349	83	322
Doubling and twisting machine stop mechanism	A. M. Price	604,500	May 24	2358	535	83	1124
Doubling-shears	F. Donner	604,374	May 24	2123	477	83	1082
Doubling-shears	F. Donner	606,054	June 21	1884	434	83	1745
Doubling silk or other threads. Machine for	J. A. Keyes	600,726	Mar. 15	2008	457	82	1641
Douche. Stomach	W. H. Armstrong	598,407	Feb. 1	570	139	82	711
Dough-cutter	C. J. Poll	607,076	July 12	825	180	84	179
Dough-cutting machine	H. Weichert	598,404	Feb. 1	565	137	82	710
Dough for bread-making, &c. Machine for dividing	C. E. and J. E. Pointon	597,089	Jan. 11	1117	263	82	234
Dough-molding apparatus	C. Dobson	614,423	Nov. 15	2146	494	85	1068



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Doughnut or fried-cake turner	J. Korbel	616,420	Dec. 20	2239	522	85	1882
Dough or like material. Machine for molding	C. E. and J. E. Pointon	597,088	Jan. 11	1116	262	82	234
Dough working and molding apparatus	C. Dobson	614,797	Nov. 22	2804	643 644	85	1204
Dough working and shaping machine	W. S. and C. I. Corby	611,563	Sept. 27	2618	603 604	84	1996
Dovetailing-machine	E. L. Lindwall	610,272	Sept. 6	233	52	84	1487
Dovetailing-machine	T. J. Ryland	608,994	Aug. 9	1520	359 360 361	84	968
Dowel-machine rod-guide	R. Harris	607,037	July 12	725	156	84	162
Dowel-making machine	O. H. Ordway	603,965	May 10	1300	297	83	869
Dowel-pin-pointing machine	C. F. Stewart	608,924	Aug. 9	1395	329 330	84	944
Draft and buffer mechanism	P. Brown	598,765	Feb. 8	1189	286 287	82	845
Draft apparatus	C. E. Berry	610,793	Sept. 13	1178	272	84	1680
Draft appliance	N. Weston	614,280	Nov. 15	1871	432	85	1015
Draft attachment. Spring	R. J. McDaniel and S. V. Graves	616,684	Dec. 27	2753	639	85	2000
Draft-equalizer	W. M. Ferree	610,267	Sept. 6	225	51	84	1486
Draft-equalizer	G. F. Hillegas	601,795	Apr. 5	331	67	83	62
Draft-equalizer	G. S. Hoffman	608,776	Aug. 9	1079	248	84	886
Draft-equalizer	A. Lange	597,290	Jan. 11	1427	335	82	293
Draft-equalizer	C. A. Lee	614,399	Nov. 15	2093	482	85	1058
Draft-equalizer	W. Lindsey	603,959	May 10	1293	295	83	868
Draft-equalizer	M. Martin	604,902	May 31	3055	702	83	1277
Draft-equalizer	B. F. Russell	603,433	May 3	330	74	83	663
Draft-equalizer	H. Wunderlich	608,093	July 26	2894	620	84	617
Draft-evenner	F. Eggen	600,218	Mar. 8	1117	255	82	1453
Draft-gear	A. Diamantidi	604,735	May 31	2783	636	83	1224
Draft-regulator and ash-pit door. Combined	W. Wewers	615,599	Dec. 6	704	162 163	85	1551
Draft-regulator, damper, and ventilator. Combined	E. V. Coulston	613,835	Nov. 8	1091	248	85	844
Draft-rigging	J. Edwards, J. R. Davies, and J. Jarrett.	614,262	Nov. 15	1844	426	85	1010
Draft-rigging	G. G. Floyd	607,843	July 26	2441	518	84	526
Draft-rigging	D. Loomis	613,522	Nov. 1	557	126	85	721
Draft-rigging	W. M. Piper	609,701	Aug. 23	2861	669	84	1257
Draft-supply apparatus	W. H. Page	603,453	May 3	368	83	83	671
Drafting instrument	R. Ruffin	614,985	Nov. 29	3190	734	85	1296
Drafting system. Dress-	M. Goodhue	613,988	Nov. 8	1343	305 306	85	894
Drainable pipe for tanks	T. J. Murfin	605,295	June 7	457	102	83	1439
Drainage-trap	E. Martin	597,822	Jan. 25	2359	551	82	508
Draining-machine	J. Edmonds	599,442	Feb. 22	2400	563 564	82	1115
Drapery-holder for shelves, &c	F. C. Osmer	601,354	Mar. 29	3095	699	82	1889
Drapery-support	A. A. Gardner	612,199	Oct. 11	1069	256	85	219
Draw-bar stop	C. H. Emerson	609,737	Aug. 23	2910	681	84	1267
Draw-head, rigging, coupling, and latch device. Combined	H. E. Welsh	603,864	May 10	1137	256	83	837
Draw-timber clamp	F. H. Lange	613,377	Nov. 1	285	65	85	672
Drawer	W. S. Alter and E. W. Anchors	614,923	Nov. 29	3048	698	85	1267
Drawer	C. P. Whittle	599,753	Mar. 1	139	32	82	1242
Drawer attachment	F. M. Kandle	608,130	July 26	2950	633	84	628
Drawer-fastener	J. V. Hemstreet	599,236	Feb. 15	2082	493	82	1031
Drawer. Hardware	J. D. Warren	603,583	May 3	611	136	83	720
Drawers	J. A. Scriven	597,747	Jan. 25	2220	517	82	482
Drawers-supporter	T. S. James	610,989	Sept. 20	1525	350	84	1770
Drawers-supporter	H. H. Riggleman	602,958	Apr. 26	2380	543	83	497
Drawing apparatus	R. Richter	599,402	Feb. 22	2315	547	82	1099
Drawing arcs of circles. Instrument for	T. Clarkson	600,357	Mar. 8	1348	308 309	82	1496
Drawing-board	R. W. Lundy	611,697	Oct. 4	190	45	85	40
Drawing-boards. Parallel motion for	A. Aigner	607,814	July 26	2377	505	84	515
Drawing implement	A. Maurer	614,175	Nov. 15	1658	381	85	976
Drawing instrument	J. A. Bergstrom	605,692	June 14	1166	269	83	1595
Drawing-roller	G. H. Sachsenröder	616,735	Dec. 27	2850	660 661	85	2021
Drawing-roller shield or deflector	T. Wolstenholme	607,724	July 19	2184	461	84	459
Drawing-table	F. W. Beckman	615,130	Nov. 29	3455	792	85	1345
Drawings. Transferring	G. Itasse	611,687	Oct. 4	167	40	85	36
Dray swing-seat	J. W. Wilson	614,596	Nov. 22	2449	558	85	1136
Dredge for mining for and saving gold, tin, or other metals. Combination-	S. Crow	612,706	Oct. 18	1979	470	85	403
Dredge for mining purposes. Hydraulic	G. F. Kibling	610,763	Sept. 13	1116	255	84	1674
Dredge. Hydraulic	L. W. Bates	604,015	May 17	1446	324	83	932
Dredge. Suction-	F. H. Heath	607,237	July 12	1139	243	84	236
Dredger. Pneumatic	T. R. Jones	609,350	Aug. 16	2209	523	84	1115
Dredging apparatus	P. H. Mackie	612,777	Oct. 18	2105	499 500	85	427
Dredging apparatus	A. McDougall	604,628	May 24	2579	588	83	1166
Dredging apparatus	J. R. Parker	601,524	Mar. 29	3383	766 767	82	1945
Dredging-bucket	J. Dembinski	611,357	Sept. 27	2226	514 515	84	1922
Dredging-drag	J. Edwards	611,614	Oct. 4	37	9	85	10
Dredging-machine	G. F. Kretz	616,675	Dec. 27	2738	636	85	1997
Dredging-machine	H. K. Reynolds	597,190	Jan. 11	1276	299	82	264
Dress-fastener	H. A. Francis	610,394	Sept. 6	487	106	84	1532
Dress-guard attachment	W. Shirley	606,492	June 28	2706	623	83	1926
Dress-raising device	L. A. Barbour	614,158	Nov. 15	1634	375	85	972
Dress. Riding-	M. E. Colegrove	598,980	Feb. 15	1559	370	82	932
Dress-shield	B. F. Sutton	606,251	June 28	2276	526	83	1841
Dress-shield attachment	F. H. Mitchell	603,773	May 10	957	214	83	802
Dress-shield extender	H. L. Rutter	599,533	Feb. 22	2558	600	82	1145



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dress-stiffener .....	M. T. Sellers .....	615,579	Dec. 6	675	155	85	1544
Dress-supporter .....	M. J. McLeod .....	597,428	Jan. 18	1678	390	82	359
Dress-waist .....	E. K. Warren .....	616,644	Dec. 27	2667	618	85	1984
Dress-weight .....	A. S. Waitzfelder .....	614,189	Nov. 15	1687	388	85	982
Dresser. Combination .....	E. L. Robertson .....	612,058	Oct. 11	830	203	85	172
Dressing-case, bureau, &c .....	W. A. V. Porter .....	600,742	Mar. 15	2037	465	82	1647
Drier:							
<i>See</i> Clothes-drier.      Rotary drier.							
Fruit-drier.          Steam-drier.							
Glove-drier.        Sugar-drier.							
Grain-drier.        Web-drier.							
Lumber-drier.      Wool-drier.							
Ore-drier.							
Drier .....	V. D. Anderson .....	610,516	Sept. 13	707	160	84	1591
Drier .....	K. S. Blanchard .....	596,470	Jan. 4	6	3	82	4
Drier .....	B. J. Hobson .....	612,341	Oct. 11	1327	320	85	266
Drier .....	A. S. Livengood .....	599,509	Feb. 22	2523	593	82	1138
Dry-house for lumber, &c .....	C. J. Bergström .....	603,837	May 10	1085	242	83	826
Dry-kiln .....	J. Guerrero and J. Ungemach .....	610,444	Sept. 6	565	124	84	1547
Dry-kiln .....	J. M. Sprout .....	610,100	Aug. 30	3540	821	84	1405
Dry separator for auriferous material .....	E. C. Sooy .....	598,963	Feb. 15	1528	364	82	926
Drying apparatus .....	T. A. Edison .....	605,475	June 14	771	177	83	1522
Drying apparatus .....	A. J. Miller .....	605,736	June 14	1232	285	83	1607
Drying apparatus .....	W. B. Ruggles .....	603,208	Apr. 26	2791	637	83	575
Drying apparatus .....	B. B. Snyder and J. J. Seldner .....	603,612	May 3	685	153	83	733
Drying apparatus .....	E. Stauber .....	606,097	June 21	1967	452	83	1762
Drying-cylinder for textile machinery .....	J. Butterworth .....	614,083	Nov. 15	1499	343	85	947
Drying-frame for woolen garments. Folding .....	H. Bristol .....	605,383	June 7	625	140	83	1472
Drying-kiln .....	G. Delplace .....	613,361	Nov. 1	256	57, 58	85	666
Drying webs of cloth or paper. Machine for .....	F. A. Colby .....	612,944	Oct. 25	2412	575	85	506
Drill:							
<i>See</i> Boring-drill.      Ratchet-drill.							
Corn-drill.          Ridge-drill.							
Electric drill.      Rock-drill.							
Grain-drill.        Rock or like drill.							
Hand-drill.        Seed-drill.							
Hand-operated drill. Seed press-drill.							
Miner's drill.      Shoe-drill.							
Mining-drill.      Track-drill.							
Percussion-drill.    Twist-drill.							
Rail-drill.        Well drill.							
Railway-track drill.							
Drill .....	C. Columbus and C. R. Hesseltine .....	608,548	Aug. 2	666	151	84	787
Drill .....	T. W. Gray .....	612,329	Oct. 11	1307	316	85	262
Drill .....	E. Kuhne .....	616,118	Dec. 20	1660	388	85	1766
Drill and seed-planter .....	R. W. Watt .....	609,714	Aug. 23	2881	673	84	1261
Drill bit. Diamond- .....	G. Vollath .....	613,340	Nov. 1	212	48	85	657
Drill-brace .....	O. Granum .....	614,385	Nov. 15	2066	476	85	1053
Drill-rods. Device for removing broken .....	J. Hurst .....	604,327	May 17	2025	453	83	1043
Drills, &c. Machine for shaping or forging and sharpening rock .....	S. P. Quick .....	606,390	June 28	2527	586	83	1889
Drills. Means for manufacturing twist- .....	R. L. Barclay .....	603,462	May 3	395	88	83	677
Drilling and facing machine .....	W. B. Pearson .....	613,225	Oct. 25	2888	681	85	600
Drilling and tapping machine for door-knob spindles.	F. B. Shuster .....	602,272	Apr. 12	1183	260	83	238
Drilling-machine .....	J. L. Jones .....	611,173	Sept. 20	1858	428	84	1834
Drilling-machine .....	W. Van Wagoner .....	596,558	Jan. 4	169	39	82	34
Drilling-machine .....	J. A. Wilson .....	613,748	Nov. 8	948	217	85	817
Drilling-machine. Hand .....	B. F. Smith .....	610,773	Sept. 13	1142	262	84	1679
Drilling-machine. Percussive .....	P. J. Ogle .....	615,884	Dec. 13	1190	278	85	1658
Drilling-machine. Portable .....	J. F. Allen .....	607,816	July 26	2379	505	84	515
Drilling-machine support .....	W. E. Hotchkiss .....	612,946	Oct. 25	2417	576	85	507
Drilling-machines. Automatic feeding mechanism for .....	W. E. Hotchkiss .....	614,866	Nov. 29	2950	678	85	1247
Drilling-machines. Automatic stop for self-feed .....	A. P. Sibley .....	600,598	Mar. 15	1791	410	82	1599
Drilling-tool .....	W. H. Skinner .....	611,947	Oct. 4	614	149	85	120
Drink-register .....	E. H. Smith .....	607,092	July 12	865	187	84	186
Drinking-fountain .....	H. Hyde and J. Buckley .....	615,182	Nov. 29	3548	816	85	1364
Drinking-fountain. Poultry .....	J. C. F. Atsatt .....	596,732	Jan. 4	494	113	82	96
Drinking-tube .....	J. A. Clark .....	599,893	Mar. 1	420	92	82	1292
Drip-trough .....	J. M. Caragher .....	600,062	Mar. 1	798	183	82	1371
Drive-gate. Reversible .....	I. M. Smith .....	604,921	May 31	3093	711	83	1284
Driving mechanism .....	F. Bordessoul .....	614,693	Nov. 22	2633	599	85	1170
Driving mechanism .....	C. T. Hildebrandt .....	604,754	May 31	2814	643	83	1230
Drop-light .....	M. I. Vought .....	613,098	Oct. 25	2664	629	85	556
Drop-light-wire clip .....	C. Schuetz .....	601,860	Apr. 5	471	95	83	88
Drop-press .....	C. F. Wieland .....	607,579	July 19	1987	402	84	412
Dropper:							
<i>See</i> Corn or seed drop-      Medicine-dropper.							
per.                      Seed-dropper.							
Hill-dropper.							
Drum .....	E. Boulanger .....	614,694	Nov. 22	2635	599	85	1170
Drum .....	E. P. Zeidler .....	609,068	Aug. 16	1681	400	84	1013
Drum. Heating- .....	H. E. Harrington .....	616,320	Dec. 20	2051	477	85	1846
Drum. Heating- .....	L. W. Holland .....	609,935	Aug. 30	3253	760	84	1347
Drum. Heating- .....	C. M. Richardson .....	607,706	July 19	2164	455	84	454
Drum. Heating- .....	G. M. Ridenour .....	599,632	Feb. 22	2767	643	82	1187
Drum. Heating- .....	H. C. Stover .....	599,068	Feb. 15	1703	404	82	961
Drum. Heating- .....	C. B. Tourville .....	608,386	Aug. 2	389	86	84	732
Drum. Heating- .....	C. P. Vernier .....	608,935	Aug. 9	1415	333	84	947
Drum. Heating- .....	C. A. Zetterstrand .....	601,368	Mar. 29	3117	704	82	1892
Drum-wind elevator .....	A. B. Roney .....	603,599	May 3	645	144	83	727
Dumb-waiter .....	W. R. Fitchet .....	604,232	May 17	1840	412	83	1007
Dumb-waiter .....	W. Williams and P. McMorro .....	600,759	Mar. 15	2061	472	82	1651
Dumb-waiter brake .....	C. W. Hoffman .....	601,963	Apr. 5	664	140	83	125



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dumb-waiter shafts. Safety-door for.....	T. Grottke .....	598,369	Feb. 1	515	125	82	699
Dump for ore-buckets .....	H. Pepin .....	601,903	Apr. 5	540	111	83	102
Dumping-platform .....	S. F. Evans .....	602,255	Apr. 12	1156	254	83	233
Dumping-receptacle .....	E. J. Little .....	607,603	July 19	1981	411	84	421
Duplex engine .....	A. J. Caldwell .....	596,981	Jan. 11	921	217	82	196
Dust and dress guard .....	J. D. Parke and J. S. Lamb .....	599,192	Feb. 15	1907	218	82	997
Dust-collector .....	W. E. Allington .....	604,871	May 31	3008	451	83	1267
Dust-collector .....	E. R. Draver .....	608,587	Aug. 9	749	690	84	824
Dust-collector .....	O. M. Morse .....	614,210	Nov. 15	1728	691	85	991
Dust-collector .....	O. Porbeck .....	603,285	May 3	71	172	83	615
Dust-collector air-lock .....	L. Gold .....	613,266	Nov. 1	72	397	85	630
Dust-guard and axle-wiper .....	J. S. Patten .....	600,797	Mar. 15	2121	485	82	1662
Dust-pan .....	L. M. Black .....	603,003	Apr. 26	2454	558	83	510
Dust-pan .....	K. A. Clabaugh .....	604,301	May 17	1972	442	83	1033
Dust-pan .....	R. Grove .....	614,858	Nov. 29	2937	674	85	1245
Dust-pan .....	H. Kohlmyer .....	597,986	Jan. 25	2643	618	82	563
Dust-pan .....	S. W. Milligan .....	604,064	May 17	1535	345	83	948
Dust-pan .....	J. M. Oursler .....	606,809	July 5	329	69	84	66
Dust-pan .....	N. A. Rose and A. Pratt .....	598,116	Feb. 1	76	18	82	617
Dust-pan .....	H. Weir .....	607,309	July 12	1265	269	84	261
Dust-pan handle. Adjustable .....	H. Marsh .....	615,565	Dec. 6	650	149	85	1539
Dust receptacle or pouch .....	W. A. Bartholomew .....	608,635	Aug. 9	845	194	84	841
Dust, shavings, &c., from air. Apparatus for separating .....	A. W. Banister .....	600,300	Mar. 8	1257	287	82	1479
Duster .....	J. P. Willey .....	597,158	Jan. 11	1228	289	82	255
Dye and making it. Brown .....	E. Elsaesser .....	611,111	Sept. 20	1754	84	84	1814
Dye and making it. Indigo-blue .....	R. Demuth .....	614,538	Nov. 22	2338	85	85	1117
Dye and making it. Red acid .....	B. Deicke .....	610,345	Sept. 6	394	84	84	1516
Dye and making it. Violet azo .....	O. Ernst .....	610,349	Sept. 6	401	84	84	1517
Dye and making same. Black .....	G. Kalischer .....	610,541	Sept. 13	746	84	84	1598
Dye and making same. Black .....	R. Vidal, (Reissue) .....	11,659	Apr. 5	797	83	83	151
Dye and making same. Black disazo .....	M. Kahn and K. Heidenreich .....	605,103	June 7	64	83	83	1364
Dye and making same. Black trisazo .....	C. Ris and C. Simon .....	615,497	Dec. 6	539	85	85	1517
Dye and making same. Blue .....	B. Heymann .....	606,212	June 28	2180	83	83	1820
Dye and making same. Blue .....	M. Ulrich .....	611,664	Oct. 4	130	85	85	28
Dye and making same. Blue azin .....	P. Ott and T. Kroeber .....	606,295	June 28	2347	83	83	1855
Dye and making same. Blue-black .....	R. Bohn .....	609,327	Aug. 16	2171	84	84	1107
Dye and making same. Blue-black .....	E. Elsaesser .....	611,112	Sept. 20	1755	84	84	1814
Dye and making same. Blue tetrazo .....	J. Bammann .....	606,181	June 28	2120	83	83	1809
Dye and making same. Dark-blue tetrazo .....	J. Bammann .....	606,264	June 28	2300	83	83	1846
Dye and making same. Deep-blue .....	I. Rosenberg .....	613,642	Nov. 1	747	85	85	759
Dye and making same. Disazo .....	A. Israel and R. Kothe .....	614,391	Nov. 15	2079	85	85	1055
Dye and making same. Green .....	E. Bourcart .....	615,472	Dec. 6	481	85	85	1505
Dye and making same. Green .....	C. Hoffmann .....	615,485	Dec. 6	501	85	85	1508
Dye and making same. Green-blue soluble .....	H. Gutzkow .....	613,920	Nov. 8	1232	85	85	871
Dye and making same. Orange .....	M. Ulrich .....	611,663	Oct. 4	129	85	85	28
Dye and making same. Red .....	H. R. Vidal .....	609,598	Aug. 23	2659	84	84	1218
Dye and making same. Red rhodamin .....	C. Hoffmann .....	613,926	Nov. 8	1241	85	85	873
Dye and making same. Violet .....	H. Hassencamp .....	611,628	Oct. 4	60	85	85	14
Dye and making same. Yellow .....	C. Ris .....	613,911	Nov. 8	1216	85	85	868
Dye. Anthraquinone .....	R. E. Schmidt .....	605,568	June 14	925	83	83	1551
Dye. Basic disazo .....	A. Philips .....	610,367	Sept. 6	442	84	84	1523
Dye. Basic red disazo dye .....	E. König .....	602,637	Apr. 19	1814	83	83	373
Dye. Basic yellow disazo .....	E. König .....	602,638	Apr. 19	1814	83	83	373
Dye. Black .....	H. R. Vidal .....	601,365	Mar. 29	3111	82	82	1892
Dye. Black disazo wool .....	G. Steinike and F. Schmidt .....	603,093	Apr. 26	2609	83	83	539
Dye. Black polyazo .....	I. Rosenberg .....	613,645	Nov. 1	749	85	85	759
Dye. Black trisazo .....	K. Krekeler and A. Israel .....	602,856	Apr. 26	2198	83	83	462
Dye. Black trisazo .....	K. Krekeler, A. Israel, and A. Blank .....	602,857	Apr. 26	2200	83	83	462
Dye. Black trisazo .....	C. Ris .....	599,532	Feb. 22	2557	82	82	1145
Dye. Blue .....	F. Bender .....	606,436	June 28	2623	83	83	1910
Dye. Blue .....	P. Julius .....	609,352	Aug. 16	2212	84	84	1115
Dye. Blue anthraquinone .....	R. E. Schmidt and P. Tust .....	605,921	June 21	1624	83	83	1699
Dye. Blue azin .....	P. Ott and T. Kroeber .....	602,544	Apr. 19	1647	83	83	342
Dye. Blue azin .....	P. Ott and T. Kroeber .....	603,013	Apr. 26	2467	83	83	513
Dye. Blue azo .....	C. Rudolph .....	601,859	Apr. 5	471	83	83	88
Dye. Blue-black .....	F. Bender .....	606,438	June 28	2625	83	83	1910
Dye. Blue-black alizarin .....	R. E. Schmidt .....	599,425	Feb. 22	2358	82	82	1108
Dye. Blue-black azo .....	J. Bammann and M. Ulrich .....	608,999	Aug. 16	1551	84	84	989
Dye. Blue-black mixed trisazo .....	M. Böniger .....	601,033	Mar. 22	2518	82	82	1750
Dye. Blue-black trisazo .....	K. Krekeler and A. Blank .....	602,855	Apr. 26	2197	83	83	462
Dye. Bluish-red .....	M. Kahn and F. Runkel .....	603,009	Apr. 26	2462	83	83	512
Dye. Brown azo .....	M. Böniger .....	608,024	July 26	2794	84	84	597
Dye. Brown-black sulfur .....	H. R. Vidal .....	608,355	Aug. 2	338	84	84	723
Dye. Brown cotton .....	R. Demuth .....	611,610	Oct. 4	30	85	85	8
Dye. Brown disazo .....	E. König .....	602,641	Apr. 19	1816	83	83	373
Dye. Brown sulfur .....	R. Demuth .....	603,755	May 10	919	83	83	796
Dye. Brown sulfureted .....	A. Weinberg .....	596,559	Jan. 4	171	82	82	35
Dye. Brown trisazo .....	K. Krekeler and E. Martz .....	602,858	Apr. 26	2201	83	83	463
Dye. Brown trisazo .....	K. Krekeler and E. Martz .....	603,090	Apr. 26	2605	83	83	538
Dye. Brown trisazo .....	K. Krekeler, E. Martz, and A. Israel .....	603,648	May 10	747	83	83	762
Dye. Coppery-brown .....	E. König .....	602,639	Apr. 19	1815	83	83	373
Dye derived from anthraquinone. Green .....	R. E. Schmidt .....	599,426	Feb. 22	2360	82	82	1108
Dye derived from quinizarin. Green .....	R. E. Schmidt .....	599,427	Feb. 22	2362	82	82	1109
Dye. Diphenyl-naphthylmethane .....	O. Nastvogel .....	605,119	June 7	85	83	83	1363
Dye for wool. Blue .....	E. Elsaesser .....	607,408	July 12	1450	84	84	296
Dye from gallocyenin and making same. Blue .....	C. de La Harpe .....	616,622	Dec. 27	2615	85	85	1973
Dye from gallocyenin and making same. Blue .....	C. de La Harpe and C. Vaucher .....	613,578	Nov. 1	644	85	85	798
Dye. Gray trisazo .....	K. Krekeler, E. Martz, and A. Israel .....	603,646	May 10	744	83	83	761
Dye. Green alizarin .....	K. Thun .....	608,238	Aug. 2	120	84	84	678
Dye. Green disazo .....	F. Bender .....	606,459	June 28	2626	83	83	1910
Dye. Green-blue tetrazo .....	J. Bammann .....	611,597	Oct. 4	4	85	85	3



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Dye. Green trisazo	K. Krekeler and E. Martz	603,645	May 10	743	-----	83	761
Dye. Green trisazo	K. Krekeler, E. Martz, and A. Israel	603,647	May 10	746	-----	83	762
Dye. Greenish-blue mixed disazo	I. Rosenberg and F. Krecke	613,641	Nov. 1	746	-----	85	759
Dye. Greenish-blue polyazo	I. Rosenberg and K. Elbel	613,640	Nov. 1	745	-----	85	758
Dye. Indigo-blue cotton	R. Demuth	611,611	Oct. 4	31	-----	85	9
Dye. Orange-brown polyazo	I. Rosenberg and B. Helmert	613,643	Nov. 1	747	-----	85	759
Dye. Primary disazo blue-black	K. Elbel and I. Rosenberg	613,638	Nov. 1	743	-----	85	758
Dye. Primary disazo blue-black	K. Elbel and I. Rosenberg	613,639	Nov. 1	744	-----	85	758
Dye. Red-violet basic disazo	E. König	602,640	Apr. 19	1815	-----	83	373
Dye. Red-violet phthalein	J. Schmid and H. Rey	609,997	Aug. 30	3381	-----	84	1372
Dye. Reddish-brown polyazo	I. Rosenberg and B. Helmert	613,644	Nov. 1	748	-----	85	759
Dye. Substantive disazo	I. Rosenberg and F. Krecke	613,646	Nov. 1	750	-----	85	759
Dye. Sulfonated monobenzyl-phthalein	J. Schmid and H. Rey	609,998	Aug. 30	3383	-----	84	1373
Dye. Thiazin	H. R. Vidal	601,363	Mar. 29	3109	-----	82	1891
Dye. Triphenylmethane-blue	A. Steiner	603,016	Apr. 26	2471	-----	83	514
Dye. Violet	M. Kahn	602,540	Apr. 19	1641	-----	83	341
Dye. Violet azo	M. Kahn	603,008	Apr. 26	2461	-----	83	512
Dye. Yellow-brown cotton	R. Demuth	606,193	June 28	2142	-----	83	1814
Dyes from sulfanilic acid. Obtaining	H. R. Vidal	601,364	Mar. 29	3110	-----	82	1892
Dyes. Making violet	H. R. Vidal	608,354	Aug. 2	338	-----	84	723
Dyeing apparatus	E. Decock	611,428	Sept. 27	2373	545	84	1948
Dyeing apparatus	R. M. Hunter	614,868	Nov. 29	2953	678	85	1248
Dyeing apparatus	A. F. Melrose and H. B. Van Deusen	603,915	May 10	1223	277	83	854
Dyeing, &c. Apparatus for	C. Corron	607,834	July 26	2420	513	84	523
Dyeing, &c. Apparatus for	L. Hwass	597,716	Jan. 25	2170	514	82	472
Dyeing apparatus. Hank	C. A. Hunt, Jr.	612,343	Oct. 11	1330	321	85	266
Dyeing apparatus. Hat	J. W. Wigner	614,047	Nov. 8	1429	329	85	912
Dyeing hair or fur	T. C. Stearns	611,870	Oct. 4	486	-----	85	97
Dyeing mixed goods	H. N. F. Schaeffer. (Reissue)	11,647	Feb. 1	719	-----	82	739
Dyeing textile fibers, yarns, and fabrics	J. T. Reid and H. Thorp	612,274	Oct. 11	1211	-----	85	245
Dyeing with quinonoxim colors	H. Alt and E. Culmann	615,232	Dec. 6	1	-----	85	1411
Dyers' use. Oxidizing device for	O. Rothe	616,018	Dec. 13	1455	340	85	1709
Dyestuff. Black substantive cotton	M. H. Isler	597,983	Jan. 25	2636	-----	82	562
Dynamite-cartridges. Fulminate-cap for	W. P. Ferguson	609,963	Aug. 30	3317	772	84	1360
Dynamo. Alternating-current	W. B. Esson	598,657	Feb. 8	1015	245	82	812
Dynamo. Alternating-current	L. Gutmann	606,863	July 5	428	92	84	85
Dynamo. Alternating-current	M. Hutin and M. Leblanc	606,762	July 5	241	51	84	48
Dynamo and electric motor for driving vehicles	J. V. Sherrin	613,894	Nov. 8	1196	273	85	865
Dynamo driving mechanism	P. W. Alexander	604,511	May 24	2378	541	83	1128
Dynamo. Inductor	B. G. Lamme	599,942	Mar. 1	502	113	82	1308
Dynamo or motor	F. Schwedtmann	603,709	May 10	846	187	83	781
Dynamos. Automatic potential regulator for	A. A. and P. S. Tirrill	596,923	Jan. 4	811	192	82	158
Dynamos. Electric regulator for	W. H. Chapman	599,892	Mar. 1	414	92	82	1292
Dynamometer. Traction	E. A. Uehling	614,240	Nov. 15	1802	416	85	1002
Dynamometer. Transmission	S. W. Robinson	597,567	Jan. 18	1916	446	82	408
Ear. Vessel	A. Yates	607,390	July 12	1413	302	84	290
Earth. Apparatus for softening and excavating frozen	J. H. L. Tuck	612,919	Oct. 25	2374	565	85	497
Easel. Artist's	A. K. Cross	610,644	Sept. 13	917	210	84	1634
Easel-support for albums, &c.	W. A. Holman	599,902	Mar. 1	436	96	82	1296
Easy-chair	E. J. Smith	614,997	Nov. 29	3210	738	85	1300
Eaves-trough	B. F. Nye	603,611	May 3	684	153	83	733
Eaves-trough	H. Stripe	614,632	Nov. 22	2582	575	85	1149
Eaves-trough ends. Implement for forming	W. W. Warren	597,924	Jan. 25	2524	590	82	539
Eaves-trough hanger	J. W. Bell	616,446	Dec. 27	2285	533	85	1912
Eaves-trough hanger	C. Kroesing	605,882	June 21	1549	355	83	1685
Eaves-trough hanger and screen attachment	F. P. Dick	608,844	Aug. 9	1246	291	84	916
Eaves-troughs. Machine for folding slip-joints for	R. F. Fowler	601,774	Apr. 5	291	58	83	55
Eccentric	C. E. Anderson	598,836	Feb. 8	1296	314	82	866
Eccentric	H. B. McKee	598,253	Feb. 1	320	73	82	662
Eccentric. Ball-bearing	F. H. Heath	596,678	Jan. 4	388	88	82	77
Ecraseur	J. G. Moscrop	612,569	Oct. 18	1725	409	85	355
Edger and trimmer. Combined	J. Coleman	614,089	Nov. 15	1511	346	85	949
Edgers. Sectional feed-roll for gang-	C. E. Buek	606,886	July 5	459	98	84	90
Educational apparatus for teachers	M. M. Parr	600,234	Mar. 8	1143	261	82	1458
Educational appliance	A. W. Baldwin	610,577	Sept. 13	807	184	84	1610
Educational appliance	S. Kimble	602,222	Apr. 12	1105	243	83	222
Egg-beater	F. S. Bellanger	602,152	Apr. 12	983	215	83	197
Egg-beater	E. J. Scopes	599,661	Feb. 22	2816	654	82	1197
Egg-beater	E. Wishart	611,726	Oct. 4	244	59	85	50
Egg-boiler	T. and L. Holmes	607,930	July 26	2605	552	84	557
Egg breaking and measuring utensil	C. M. Hager	603,635	May 10	727	162	83	758
Egg-carrier	C. Goetz	605,418	June 7	695	154	83	1487
Egg-carton	R. J. Barkley	616,392	Dec. 20	2187	510	85	1872
Egg-case	A. J. Branham	612,395	Oct. 18	1418	342	85	297
Egg-case	T. F. W. Schmidt	601,449	Mar. 29	3258	737	82	1919
Egg-case filler	A. M. McLane and C. Hardgrave	597,525	Jan. 18	1849	429	82	393
Egg-case machine	J. H. Batchelder	616,520	Dec. 27	2444	565	85	1942
Egg-case. Metal	H. H. Knight	601,661	Apr. 5	67	13	83	14
Egg, fruit, &c., carrier	E. J. Vance and J. M. Leaver	598,755	Feb. 8	1176	282	82	842
Egg-holder	L. W. Woods	612,473	Oct. 18	1558	373	85	323
Egg or packing case	W. D. Mayfield	600,546	Mar. 15	1707	391	82	1584
Egg-poacher	G. W. Knapp	611,843	Oct. 4	438	105	85	87
Egg-poacher	E. Louden	601,755	Apr. 5	255	50	83	49
Egg-tester	T. S. Ferguson	598,141	Feb. 1	114	27	82	624
Egg-tester	W. H. Pierson	600,445	Mar. 8	1490	340	82	1522



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Egg-tester.....	L. L. Pletcher.....	614,842	Nov. 15	1983	458	85	1037
Egg-tester.....	G. W. Preston.....	615,899	Dec. 13	1221	286	85	1664
Egg-tester.....	I. S. Vedder.....	602,115	Apr. 12	910	198	83	184
Eggs. Cleaning and drying.....	J. A. Kunkel.....	604,621	May 24	2567	.....	88	1164
Eggs. Process of and composition for preserving.....	F. C. Smith.....	602,795	Apr. 19	2088	.....	83	425
Ejector.....	J. E. Melcher.....	601,521	Mar. 29	3379	765 766	82	1944
Ejector. High and low pressure.....	J. Horsley.....	600,077	Mar. 1	820	189	82	1374
Ejector. Sanitary.....	L. O. Lawrason.....	607,753	July 19	2233	472	84	468
Elastic-tired wheel.....	S. C. Davidson.....	615,059	Nov. 29	3333	765	85	1322
Elastic-tired wheel.....	D. A. McKnight.....	599,517	Feb. 22	2532	595	82	1140
Elbow. Sheet-metal.....	F. Dieckmann.....	597,056	Jan. 11	1053	247	82	222
Electric accumulator.....	F. Pescetto.....	614,339	Nov. 15	1978	.....	85	1036
Electric battery.....	O. T. Bugg, Jr.....	615,246	Dec. 6	24	6	85	1416
Electric battery.....	P. A. Emanuel.....	615,539	Dec. 6	605	138	85	1529
Electric battery.....	P. A. Emanuel.....	615,540	Dec. 6	609	139	85	1530
Electric battery.....	P. A. Emanuel.....	615,541	Dec. 6	614	139 140	85	1531
Electric battery.....	M. E. Fuld.....	612,326	Oct. 11	1303	315	85	261
Electric battery.....	V. Jeanty.....	611,012	Sept. 20	1563	360	84	1777
Electric battery.....	M. Maas.....	615,292	Dec. 6	130	34	85	1438
Electric battery.....	C. P. Shrewsbury and J. L. Dobell.....	599,405	Feb. 22	2319	547 548 549	82	1100
Electric battery for medical purposes.....	C. W. Moessner.....	598,948	Feb. 15	1500	358	82	921
Electric brake.....	H. P. Davis.....	606,917	July 5	500	110	84	99
Electric brake.....	E. W. G. C. Hoffmann.....	606,167	June 21	2094	481	83	1785
Electric brake.....	J. B. Linn.....	610,908	Sept. 20	1375	315	84	1742
Electric brake.....	E. B. Skinner.....	609,124	Aug. 16	1797	428	84	1032
Electric break and induction apparatus.....	T. B. Kinraide.....	607,177	July 12	1016	221	84	213
Electric break for induction-coils.....	T. B. Kinraide.....	607,176	July 12	1013	220	84	213
Electric cable.....	H. A. Reed.....	608,911	Aug. 9	1346	314	84	936
Electric cable.....	W. S. Smith and W. P. Granville.....	597,790	Jan. 25	2307	537 538	82	497
Electric cable.....	N. G. Warth.....	603,069	Apr. 26	2562	582	83	530
Electric cable. Armored.....	E. T. Greenfield.....	616,612	Dec. 27	2597	603	85	1970
Electric-cable conductor.....	S. D. Field.....	615,349	Dec. 6	238	56	85	1460
Electric cable for driving conveyances.....	A. Norman.....	607,070	July 12	812	178	84	176
Electric cable for propulsion of vehicles.....	A. Norman.....	596,907	Jan. 4	780	184	82	152
Electric-cable switch.....	A. Norman.....	612,670	Oct. 18	1918	454	85	391
Electric cables. Manufacturing.....	S. Z. de Ferranti.....	614,453	Nov. 22	2195	504	85	1091
Electric-circuit-closing device.....	G. Newman.....	600,969	Mar. 22	2404	548	82	1729
Electric-circuit controller.....	J. H. Bowley. (Reissue).....	11,689	Aug. 30	3635	845	84	1425
Electric-circuit controller.....	W. T. Budds.....	598,358	Feb. 1	492	118	82	695
Electric-circuit controller.....	N. Tesla.....	609,246	Aug. 16	2024	480	84	1078
Electric-circuit controller.....	N. Tesla.....	609,247	Aug. 16	2026	480	84	1079
Electric-circuit controller.....	N. Tesla.....	609,248	Aug. 16	2028	480	84	1079
Electric-circuit controller.....	N. Tesla.....	609,249	Aug. 16	2030	480	84	1079
Electric-circuit controller.....	N. Tesla.....	609,251	Aug. 16	2033	481	84	1080
Electric-circuit controller.....	N. Tesla.....	613,735	Nov. 8	921	211	85	812
Electric-circuit regulating-switch.....	H. P. Davis and G. Wright.....	637,617	July 19	2006	416 417	84	425
Electric-circuit shunt.....	O. B. Shallenberger.....	606,171	June 21	2100	482	83	1786
Electric-circuit switch.....	H. P. Davis and E. F. Harder.....	599,930	Mar. 1	480	108	82	1304
Electric-circuit switch.....	G. Wright.....	599,954	Mar. 1	520	118	82	1311
Electric-circuit switch. Automatic time.....	F. Richard.....	614,982	Nov. 29	3184	732	85	1295
Electric-circuit testing apparatus.....	E. and F. W. Heymann.....	598,517	Feb. 8	766	184 185	82	765
Electric circuits. Emergency fusible cut-out for.....	C. H. Long.....	612,286	Nov. 1	116	27	85	639
Electric circuits. Mechanism for controlling.....	G. H. Whittingham.....	614,914	Nov. 29	3032	694	85	1263
Electric circuits. Solenoid blow-out for dispersing arcs formed in breaking.....	S. H. Short.....	601,717	Apr. 5	184	36	83	37
Electric combination-lock.....	H. G. Carleton.....	608,320	Aug. 2	272	61,62	84	709
Electric condenser.....	C. S. Bradley.....	603,722	May 10	866	192	83	785
Electric-conductor bond.....	S. W. Huff.....	607,746	July 19	2220	469 470	84	466
Electric conductor. Flexible.....	A. Bournonville.....	600,058	Mar. 1	793	181	82	1369
Electric-conductor joint.....	H. S. Patten and W. Maver, Jr.....	608,412	Aug. 2	440	97	84	743
Electric-conductor tip.....	A. B. Blodgett.....	598,972	Feb. 15	1548	367	82	930
Electric conductors. Junction-box for.....	T. J. Close.....	598,498	Feb. 8	737	178	82	759
Electric conductors. Supporting-clip for overhead.....	W. A. Bartley.....	608,637	Aug. 9	848	195	84	842
Electric conductors. Underground conduit for.....	C. H. Sewall.....	603,745	May 10	904	201	83	792
Electric conduit. Subterranean.....	W. D. M. Howard.....	596,812	Jan. 4	629	145	82	121
Electric conduit. Underground.....	T. Connelly.....	607,018	July 12	689	149	84	156
Electric contact-box.....	J. N. Thomas.....	600,937	Mar. 22	2357	535	82	1720
Electric contact-box.....	J. N. Thomas and W. M. Brown.....	612,880	Oct. 25	2319	552	85	487
Electric contact device.....	J. L. Buchanan.....	599,891	Mar. 1	412	92	82	1291
Electric contact-shoe.....	W. M. Brown.....	602,495	Apr. 19	1560	355	83	327
Electric controller.....	J. D. Forrer.....	609,092	Aug. 16	1718	409	84	1020
Electric controller.....	M. W. Hanks.....	606,009	June 21	1801	414 415	83	1730
Electric controller.....	S. Harris.....	611,215	Sept. 20	1939	447	84	1849
Electric controller.....	F. A. Merrick.....	599,186	Feb. 15	1896	448	82	995
Electric-cord-adjusting device.....	F. N. Lawton.....	602,235	Apr. 12	1121	246	83	225
Electric coupling.....	J. F. McElroy.....	611,000	Sept. 20	1539	353 354	84	1773
Electric-current controller.....	J. J. Hogan.....	606,012	June 21	1805	416	83	1731
Electric-current controller.....	E. E. Werner.....	607,311	July 12	1267	270	84	262
Electric-current distribution.....	E. Thomson.....	602,963	Apr. 26	2387	544	83	498
Electric-current leveler.....	M. Hutin and M. Leblanc.....	613,205	Oct. 25	2844	671	85	592
Electric currents and voltage. Apparatus for reducing.....	A. F. Vetter.....	602,709	Apr. 19	1943	441	83	398
Electric currents. Automatic regulator for.....	J. D. C. Chateau.....	600,356	Mar. 8	1346	308	82	1496
Electric currents. Coin-controlled machine for automatically distributing.....	J. W. Dawson.....	598,655	Feb. 8	1010	244	82	811
Electric currents. Hinge-conductor for.....	F. E. Chandler.....	612,192	Oct. 11	1060	254	85	217



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric currents. Resistance and contact apparatus for	H. Lyon	610,406	Sept. 6	508	111	84	1536
Electric currents to agricultural machines. Means for supplying	H. Foerster	610,350	Sept. 6	402	85, 86	84	1517
Electric cut-out	H. A. Lewis	607,250	July 12	1162	248	84	239
Electric drill. Portable	E. Holmes	606,549	June 28	2820	649	83	1948
Electric drill. Reciprocating	H. Casler	608,175	Aug. 2	12	3	84	657
Electric elevator	H. Cochrane	605,598	June 14	980	226	83	1560
Electric elevator	R. Eickemeyer	609,015	Aug. 16	1573	374	84	993
Electric elevator	R. Eickemeyer	609,016	Aug. 16	1579	375 376 377	84	994
Electric elevator	H. Rowntree	599,015	Feb. 15	1620	384	82	944
Electric energy. Generating and distributing	C. M. Green	613,880	Nov. 8	1172	268	85	861
Electric energy. Generating and distributing	C. M. Green	613,881	Nov. 8	1175	269	85	861
Electric energy. Generating and distributing	C. M. Green	613,882	Nov. 8	1178	269	85	862
Electric furnace	C. S. Bradley	597,945	Jan. 25	2571	600 601	82	548
Electric furnace	L. Bresson	612,943	Oct. 25	2411	575	85	506
Electric furnace	G. G. Clark	602,815	Apr. 19	2125	480	83	432
Electric furnace	J. E. Hewes	598,318	Feb. 1	440	105	82	685
Electric furnace	W. S. Horry	597,880	Jan. 25	2455	573	82	527
Electric furnace	R. Pignotti, F. Lori, S. Regnoli, M. Besso, and M. Pantaleoni.	611,142	Sept. 20	1805	415	84	1824
Electric furnace	T. L. Willson	597,476	Jan. 18	1772	410 411	82	378
Electric furnace for manufacturing calcium carbide	C. L. Wilson, C. Muma, J. W. Unger, H. Schneekloth, A. P. Brosius, and J. C. Kuchel.	601,367	Mar. 29	3115	703	82	1892
Electric generator for cycles, &c	J. Moores and H. O. Farrell	616,343	Dec. 20	2093	488	85	1853
Electric generator. Static-induction	A. L. Bogart	597,137	Jan. 11	1192	280	82	248
Electric heater	E. E. Cruzen	598,303	Feb. 1	416	98	82	681
Electric heater	E. E. Gold	600,417	Mar. 8	1443	330	82	1515
Electric heater	E. E. Gold	604,384	May 24	2134	479	83	1084
Electric heater	R. J. Holland	600,285	Mar. 8	1236	281	82	1475
Electric heater	J. F. McElroy	598,638	Feb. 8	981	236 237	82	806
Electric heater	J. F. McElroy	598,640	Feb. 8	984	237	82	807
Electric heater	J. F. McElroy	601,585	Mar. 29	3473	791	82	1964
Electric heater	J. F. McElroy	608,343	Aug. 2	322	71	84	720
Electric heater	J. F. McElroy	610,999	Sept. 20	1538	353	84	1772
Electric heater	J. F. McElroy	616,800	Dec. 27	2953	689	85	2041
Electric heater or rheostat	R. V. Sill	606,769	July 5	261	55	84	53
Electric heaters. Composition of matter for	G. B. Fraley	606,921	July 5	510	---	84	101
Electric-light support. Incandescent	J. Whitaker	599,543	Feb. 22	2575	604	82	1148
Electric-light switch	F. L. Temple	606,746	July 5	210	45	84	43
Electric-lighting apparatus	D. M. Moore	604,685	May 24	2676	612 613	83	1185
Electric lighting. Phosphorescent	D. M. Moore	613,864	Nov. 8	1141	261 262	85	854
Electric-lighting system for vehicles	R. N. Chamberlain and A. S. Hubbard.	613,918	Nov. 8	1226	279 280	85	870
Electric-lighting systems. Interrupter for	D. M. Moore	604,681	May 24	2668	611	83	1184
Electric-line switch	A. B. Du Pont	607,638	July 19	2045	425	84	434
Electric line-wires. Clamping-buckle for	A. H. Weikman	601,454	Mar. 29	3267	738	82	1921
Electric lock	H. G. Carleton	608,321	Aug. 2	277	62, 63	84	710
Electric-lock combination mechanism	H. G. Carleton	608,322	Aug. 2	282	63	84	712
Electric locomotion	H. Van Hoevenbergh	609,851	Aug. 30	3108	724 725	84	1319
Electric luminous alphabet and board for same	D. M. Moore	602,953	Apr. 26	2373	541	83	496
Electric machine. Alternating-current dynamo	S. Z. de Ferranti	615,265	Dec. 6	83	22, 23	85	1429
Electric machine. Alternating-current dynamo	M. Leblanc	613,209	Oct. 25	2855	673 674	85	594
Electric-machine brush-holder. Dynamo	G. L. Pratt	614,025	Nov. 8	1394	320	85	905
Electric machine. Dynamo	R. S. Dobbie	606,407	June 28	2560	593	83	1895
Electric machine. Dynamo	A. G. Eigner	607,737	July 19	2207	466	84	463
Electric machine. Dynamo	J. E. Fuller	615,351	Dec. 6	241	57	85	1461
Electric machine. Dynamo	W. M. Mordey	615,731	Dec. 13	939	218 219	85	1609
Electric machine. Dynamo	W. M. Mordey	615,732	Dec. 13	941	219	85	1610
Electric machine. Dynamo	W. B. Sayers	607,593	July 19	1965	407 408	84	418
Electric machine. Dynamo	J. Sohlman	597,090	Jan. 11	1119	264	82	234
Electric machine or motor. Dynamo	S. G. Brown	613,116	Oct. 25	2685	635	85	561
Electric machine or electromotor. Dynamo	E. Cantono	614,608	Nov. 22	2476	565	85	1140
Electric-machine safety device. Dynamo	E. M. Hewlett	610,904	Sept. 20	1371	314	84	1741
Electric machines. Current-collector for dynamo	G. W. Nell	600,088	Mar. 1	846	195	82	1380
Electric machines. Means for preventing stray magnetism in dynamo	J. F. Kelly	608,133	July 26	2954	634	84	628
Electric machines. Regulating dynamo	C. P. Steinmetz	608,309	Aug. 2	246	56	84	704
Electric machinery. Construction of dynamo	A. Soames	598,540	Feb. 8	809	193 194 721 722 723	82	773
Electric machinery. Dynamo	J. S. Lewis and F. J. Howitt	614,964	Nov. 29	3143	285 386	85	1288
Electric machinery. Regulation of dynamo	F. A. Johnson	597,418	Jan. 18	1659	385 386	82	355
Electric machinery. Regulation of dynamo	F. A. Johnson	597,419	Jan. 18	1662	386	82	356
Electric meter	T. Duncan	604,459	May 24	2275	510 511	83	1111
Electric meter	T. Duncan	604,460	May 24	2280	512 513	83	1111
Electric meter	T. Duncan	604,461	May 24	2282	513 514	83	1112
Electric meter	T. Duncan	604,462	May 24	2285	514 515	83	1112



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Electric meter	T. Duncan	604,463	May 24	2287	516 517 517	83	1112
Electric meter	T. Duncan	604,464	May 24	2290	518 519	83	1113
Electric meter	T. Duncan	604,465	May 24	2293	519 520	83	1113
Electric meter	T. Duncan	604,466	May 24	2296	521 522	83	1114
Electric meter	T. Duncan	605,665	June 14	1116	257 258	83	1585
Electric meter	T. Duncan	605,862	June 21	1510	346 347	83	1677
Electric meter	T. Duncan	605,949	June 21	1678	384 385	83	1709
Electric meter	S. Evershed	611,809	Oct. 4	373	90	85	75
Electric meter	L. Gutmann	614,225	Nov. 15	1756	404	85	995
Electric meter	C. D. Haskins	610,899	Sept. 20	1365	312	84	1740
Electric meter	G. Kapp	597,985	Jan. 25	2639	616 617	82	562
Electric meter	W. D. Marks	607,185	July 12	1032	223	84	216
Electric meter	W. D. Marks and G. R. Green	612,426	Oct. 18	1473	356 357	85	307
Electric meter	C. Raab	599,046	Feb. 15	1670	395	82	955
Electric meter	C. D. Raab	598,208	Feb. 1	246	55	82	649
Electric meter	C. D. Raab	598,209	Feb. 1	249	55	82	649
Electric meter	W. Stanley and F. Darlington	606,795	July 5	302	63	84	60
Electric meter and motor	H. P. Davis and F. Conrad	608,842	Aug. 9	1238	288 289	84	914
Electric-meter case	W. D. Marks	612,427	Oct. 18	1477	357	85	308
Electric-meter driving-gear	G. A. Le Fevre	599,508	Feb. 22	2522	593	82	1138
Electric meter or indicator	W. D. Marks	612,781	Oct. 18	2116	503	85	429
Electric-metering system	H. C. Wirt	602,925	Apr. 26	2324	528	83	486
Electric motor	F. E. Briner	605,850	June 21	1486	340	83	1672
Electric motor	W. S. Johnson and H. Winkenwerder	607,247	July 12	1157	247	84	239
Electric motor	E. McNerney	599,913	Mar. 1	455	101	82	1299
Electric motor	O. H. and A. F. Pieper	599,791	Mar. 1	200	49, 50	82	1253
Electric motor	W. H. Powell	608,711	Aug. 9	976	224	84	867
Electric motor	J. L. Thoma	616,035	Dec. 13	1489	348	85	1717
Electric motor	J. G. Truman	606,605	June 28	2916	675	83	1966
Electric motor. Alternating-current	R. H. Hassler	606,056	June 21	1886	434 435	83	1746
Electric motor. Alternating-current	A. S. Frazer	613,135	Oct. 25	2714	641 642	85	567
Electric motor and controlling same	C. W. Kennedy	616,673	Dec. 27	2730	634 635	85	1995
Electric-motor controller	F. E. Case	610,895	Sept. 20	1360	311	84	1739
Electric-motor controller	C. S. Cook	597,265	Jan. 11	1393	326 829	82	286
Electric-motor controller	H. P. Davis	610,124	Aug. 30	3581	830 831	84	1414
Electric-motor controller	H. P. Davis	611,465	Sept. 27	2437	561 562	84	1961
Electric-motor controller	E. W. G. C. Hoffmann	598,991	Feb. 15	1579	375	82	937
Electric-motor-controlling apparatus	A. J. Stopher	602,781	Apr. 19	2052	465 466	83	419
Electric-motor controlling device	F. J. Russell	613,869	Nov. 8	1155	265	85	857
Electric-motor controlling mechanism	G. Gibbs, W. S. Johnson, and H. Winkenwerder.	605,953	June 21	1689	387	83	1711
Electric-motor controlling-switch	R. Hutchison	612,203	Oct. 11	1075	257 258	85	220
Electric motor. Direct-acting oscillating	J. H. Mason	598,946	Feb. 15	1498	357	82	920
Electric-motor mounting	E. B. W. Reichel and F. W. V. Stein	605,679	June 14	1142	265	83	1590
Electric motor. Non-synchronous	B. G. Lamme	599,940	Mar. 1	499	112 113	82	1308
Electric motor or dynamo	A. L. Riker	604,842	May 31	2952	675 676	83	1256
Electric-motor starting-box	J. D. Ihlder	596,515	Jan. 4	96	22	82	21
Electric-motor switch	F. E. Herdman	603,849	May 10	1103	247 248	83	830
Electric motors. Apparatus for starting and controlling	T. W. Kroman	610,712	Sept. 13	1028	237	84	1657
Electric motors. Automatic device for removing resistance in starting	G. H. Whittingham	602,413	Apr. 12	1423	322	83	286
Electric motors. Means for controlling operation of	J. D. Ihlder	612,629	Oct. 18	1842	437	85	377
Electric motors. Means for supporting	L. T. Pyott	611,273	Sept. 27	2070	477	84	1893
Electric motors. Method of and apparatus for regulating	B. Frankenfield and D. C. Jackson	599,932	Mar. 1	484	109 110	82	1305
Electric motors. Method of and means for controlling	S. H. Short	599,804	Mar. 1	222	53, 54	82	1257
Electric motors. Method of and means for controlling	S. H. Short	599,805	Mar. 1	229	54, 55	82	1258
Electric motors. Method of and means for controlling	S. H. Short	599,806	Mar. 1	237	55	82	1259
Electric motors. Method of and means for controlling and cutting out	T. von Zweigbergk	611,089	Sept. 20	1705	392	84	1805
Electric motors. Regulating speed of series	H. F. Parshall	597,018	Jan. 11	981	232	82	207
Electric motors. System of control of	E. R. Gill	609,274	Aug. 16	2078	494	84	1089
Electric regulator	W. H. Chapman	613,853	Nov. 8	1119	255	85	850
Electric regulator	J. A. Powers	607,551	July 19	1890	391	84	404
Electric regulator. Automatic	R. Skeen	608,721	Aug. 9	987	227 228	84	869
Electric resistance-conductor	H. G. O'Neill	599,351	Feb. 22	2207	524	82	1077
Electric resistance-conductor	H. G. O'Neill and H. B. Gale	599,352	Feb. 22	2209	524	82	1077



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Electric safety device.....	J. F. Kelly.....	615,186	Nov. 29	3554	817 818	85	1365
Electric selector system.....	T. C. Drake.....	605,309	June 7	479	108	83	1443
Electric snap-switch.....	A. F. Wood.....	606,884	July 5	457	98	84	90
Electric surface conductor. Intermittent.....	F. Burger.....	614,082	Nov. 15	1497	343	85	947
Electric switch.....	J. M. Andersen.....	598,553	Feb. 8	827	197	82	777
Electric switch.....	C. C. Badeau.....	605,067	June 7	1	1	83	1353
Electric switch.....	R. A. Baldwin.....	610,016	Aug. 30	3410	790	84	1378
Electric switch.....	G. Doyle.....	599,692	Mar. 1	27	7	82	1221
Electric switch.....	W. Ely.....	613,128	Oct. 25	2705	640	85	565
Electric switch.....	W. Ely.....	615,347	Dec. 6	235	56	85	1459
Electric switch.....	W. Ely and W. B. Bernardini.....	613,129	Oct. 25	2707	640	85	565
Electric switch.....	J. J. Flint.....	600,112	Mar. 1	888	204	82	1388
Electric switch.....	E. M. French.....	597,642	Jan. 18	2038	476	82	432
Electric switch.....	G. W. Hart.....	612,088	Oct. 11	797	196	85	167
Electric switch.....	W. S. Hill.....	596,506	Jan. 4	77	17	82	17
Electric switch.....	J. L. Hinds.....	597,979	Jan. 25	2629	614	82	560
Electric switch.....	R. L. L. Hundhausen.....	610,402	Sept. 6	503	110	84	1536
Electric switch.....	W. J. Kelly.....	616,110	Dec. 20	1637	383	85	1763
Electric switch.....	F. A. La Roche.....	613,688	Nov. 8	815	187	85	792
Electric switch.....	A. G. McPherson.....	602,767	Apr. 19	2025	460	83	414
Electric switch.....	J. R. Newell.....	598,001	Jan. 25	2667	622 623	82	567
Electric switch.....	O. S. Platt.....	601,276	Mar. 29	2963	670	82	1863
Electric switch. Automatic.....	F. C. Perkins and J. D. Killip.....	598,715	Feb. 8	1116	269	82	831
Electric switch for use with electrically-propelled vehicles or locomotives, &c.....	A. T. Snell and C. E. Grove.....	605,023	May 31	3252	747	83	1315
Electric switch. Quick-break.....	T. E. Drohan.....	600,523	Mar. 15	1665	379	82	1576
Electric switches and extinguishing sparks thereof. Means for operating.....	J. B. Knudsen.....	597,150	Jan. 11	1210	283	82	251
Electric system of distribution.....	J. N. Thomas.....	612,146	Oct. 11	979	237	85	201
Electric system of propulsion.....	W. M. Brown.....	599,162	Feb. 15	1863	441	82	989
Electric time-switch.....	G. F. Goodwyn.....	598,864	Feb. 8	1345	325	82	875
Electric time-switch.....	F. M. Schmidt, J. H. Gerry, and W. S. Barstow.....	611,822	Oct. 4	402	96, 97	85	80
Electric traction apparatus.....	R. Demeuse.....	612,234	Oct. 11	1133	271 272	85	232
Electric-traction system.....	M. Cattori.....	616,403	Dec. 20	2209	516	85	1876
Electric transformer.....	J. J. Bellman and C. T. Rittenhouse.....	605,194	June 7	246	58	83	1397
Electric transformer.....	J. F. Gates.....	597,180	Jan. 11	1261	295 296	82	262
Electric transformer.....	L. Gutmann.....	602,218	Apr. 12	1100	242	83	221
Electric-wire clamp.....	S. S. Leonard.....	609,888	Aug. 30	3176	744	84	1332
Electric-wire-holding appliance.....	H. A. McCoy.....	599,346	Feb. 22	2196	521	82	1074
Electric wires. Means for supporting.....	B. D. Smock.....	601,357	Mar. 29	3100	700	82	1889
Electric wires. Underground conduit for.....	A. L. Daniels.....	599,292	Feb. 15	2076	492	82	1030
Electrical apparatus.....	H. H. Eldred.....	602,596	Apr. 19	1736	395	83	358
Electrical apparatus.....	W. Stanley.....	603,515	May 3	508	110 111	83	699
Electrical apparatus. Circuit arrangement for.....	J. Miesler.....	607,760	July 19	2244	474	84	471
Electrical apparatus for schools.....	M. E. Crowell.....	603,875	May 10	1155	260 261	83	841
Electrical appliance for assisting anatomical organs.....	J. Doty.....	609,614	Aug. 23	2706	631	84	1226
Electrical battery.....	N. B. Stubblefield.....	600,457	Mar. 8	1520	348	82	1528
Electrical cables. Manufacturing.....	S. Z. de Ferranti.....	615,691	Dec. 13	874	202	85	1597
Electrical-circuit controller.....	R. Lundell.....	608,134	July 26	2955	634	84	629
Electrical-circuit controller.....	N. Tesla.....	609,245	Aug. 16	2021	479	84	1078
Electrical-circuit controller.....	N. Tesla.....	611,719	Oct. 4	228	56	85	47
Electrical communication. System for.....	A. T. Brown.....	606,620	June 28	2939	681 682	83	1971
Electrical conductor.....	L. C. Werner.....	598,260	Feb. 1	334	77	82	665
Electrical conductors. Terminal head for.....	C. H. Sewall and H. E. Proconier.....	598,328	Feb. 1	452	108	82	687
Electrical conductors. Underground conduit for.....	C. H. Sewall.....	614,995	Nov. 29	3205	737	85	1299
Electrical-conduit box.....	H. Krantz.....	609,356	Aug. 16	2216	524	84	1116
Electrical connection.....	W. E. Baker.....	615,420	Dec. 6	385	92	85	1488
Electrical connections. Forming.....	W. B. Cleveland.....	614,839	Nov. 29	2880	662	85	1234
Electrical connector.....	J. Pedriali.....	611,707	Oct. 4	204	48	85	42
Electrical connector.....	F. Schwedtmann.....	612,123	Oct. 11	949	229	85	196
Electrical converter.....	F. Schwedtmann.....	612,122	Oct. 11	948	229	85	195
Electrical converters. Automatic cut-out for.....	W. J. Greene.....	598,922	Feb. 15	1450	347 348	82	911
Electrical currents. Means for controlling voltage and volume of.....	H. Williams.....	610,509	Sept. 6	693	156	84	1572
Electrical distribution.....	C. P. Steinmetz.....	608,307	Aug. 2	239	55	84	702
Electrical distribution and regulation. System of.....	B. G. Lamme.....	606,015	June 21	1810	417	83	1732
Electrical-distribution system.....	W. L. Bliss.....	601,233	Mar. 29	2860	653	82	1843
Electrical-distribution system.....	B. G. Lamme.....	599,943	Mar. 1	504	114	82	1308
Electrical-distribution system.....	B. G. Lamme.....	607,621	July 19	2014	418	84	427
Electrical-distribution system.....	H. Linton.....	597,855	Jan. 25	2413	562 563	82	519
Electrical distribution system.....	C. F. Scott.....	611,151	Sept. 20	1822	419 420	84	1827
Electrical-distribution system.....	C. F. Scott and B. G. Lamme.....	606,589	June 28	2888	668	83	1961
Electrical-distribution system.....	C. P. Steinmetz.....	605,525	June 14	847	198	83	1536
Electrical-distribution system.....	C. P. Steinmetz.....	605,526	June 14	848	198 199	83	1536
Electrical-distribution system.....	C. P. Steinmetz.....	608,308	Aug. 2	244	56	84	703
Electrical energy. Transforming potential energy of carbon into.....	H. Blumenberg, Jr.....	599,094	Feb. 15	1738	412	82	968
Electrical hinge-contact.....	C. Baxter.....	615,209	Nov. 29	3633	834	85	1381
Electrical lighting device for kerosene or other burners.....	S. M. Meyer.....	604,626	May 24	2574	586 587	83	1165
Electrical machine brush.....	J. W. Dickey.....	610,705	Sept. 13	1016	235	84	1655
Electrical machine. Direct-current.....	B. G. Lamme.....	599,941	Mar. 1	501	113	82	1308
Electrical primary battery.....	J. B. Whittemore.....	599,411	Feb. 22	2327	.....	82	1101



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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electrical resistance.....	H. S. Chase.....	607,540	July 19	1865	387	84	400
Electrical resistance. Switch for varying.....	E. F. H. H. Lauckert.....	608,878	Aug. 9	1297	302	84	925
Electrical retort.....	H. Eldridge, D. J. Clark, and S. Blum.....	603,058	Apr. 26	2532	576	83	525
Electrical selector.....	L. W. Crofoot and F. E. Granger.....	602,895	Apr. 26	2252	513	83	472
Electrical switches. Means for use in operating.....	T. H. Parker.....	598,679	Feb. 8	1052	253	82	819
Electrical traction.....	W. Kingsland.....	609,188	Aug. 16	1899	452	84	1051
Electrical transmission of speech. Tension-regulator for.....	A. C. Cousens.....	609,877	Aug. 30	3151	736	84	1328
Electrical wireman's combined gage and calculator.....	H. Lutz.....	611,971	Oct. 4	651	158	85	127
Electrically-controlled switch.....	E. M. Hewlett.....	603,786	May 10	979	218	83	807
Electrically-heated roll.....	F. P. Snow.....	607,093	July 12	869	188	84	187
Electrically transmitting power. Method of and apparatus for.....	C. S. Bradley.....	615,673	Dec. 13	841	194	85	1590
Electricity. Apparatus for producing radiation of.....	C. H. Stearn and C. F. Topham.....	613,090	Oct. 25	2652	627	85	554
Electricity. Apparatus for supplying or measuring currents of.....	W. D. Watson and T. Humphreys.....	605,765	June 14	1278	295	83	1616
Electricity. Method of and apparatus for generating.....	W. L. Negbaur and J. J. Feely.....	607,125	July 12	922	296	84	197
Electrode. Battery.....	H. S. Lloyd.....	612,649	Oct. 18	1880	200	85	384
Electrode. Battery.....	H. E. Wilkinson.....	608,537	Aug. 2	649	146	84	783
Electrode for arc-lights.....	C. S. Dolley.....	606,127	June 21	2020	83	1771	
Electrode-plate for electric accumulators.....	P. F. Ribbe.....	607,078	July 12	829	181	84	180
Electrode support. Cataphoric.....	M. W. Hollingsworth.....	601,396	Mar. 29	3166	715	82	1902
Electrode. Therapeutic.....	J. S. Muir.....	600,290	Mar. 8	1242	282	82	1476
Electrodes. Box or case for secondary-battery.....	G. W. Harris and R. J. Holland.....	598,926	Feb. 15	1459	349	82	913
Electrodes for accumulators. Making soluble metal.....	J. Julien.....	600,693	Mar. 15	1954	82	1630	
Electrodeposition. Process of and apparatus for.....	E. L. Dessolle.....	602,212	Apr. 12	1089	239	83	219
Electrodynamic apparatus for operating clipping, brushing, or other mechanisms.....	W. P. Freeman.....	608,768	Aug. 9	1068	245	84	884
Electrolytic apparatus.....	J. G. A. Rhodin.....	608,300	Aug. 2	224	52	84	699
Electrolytic apparatus.....	F. A. Thum.....	614,633	Nov. 22	2522	575	85	1149
Electrolytic bath.....	P. Marino.....	607,646	July 19	2060	84	436	
Electrolytic purposes. Diaphragm for.....	W. G. Luxton.....	609,745	Aug. 23	2924	84	1269	
Electrolyzing sea-water. Process of and apparatus for.....	G. B. Baldo.....	612,009	Oct. 11	727	174	85	155
Electromagnet having rotating fields.....	W. Langdon-Davies.....	604,055	May 17	1511	340	83	944
Electromagnetic engine.....	P. B. Watson.....	611,850	Oct. 4	454	108	85	91
Electromagnetic motor.....	A. B. McMillan.....	607,451	July 19	1529	326	84	328
Electromechanical lock.....	H. G. Carleton.....	608,319	Aug. 2	267	61	84	708
Electromechanical striking mechanism.....	C. E. Beach and H. W. Doughty.....	615,057	Nov. 29	3327	764	85	1321
Electromedical apparatus.....	R. H. Wappler.....	609,639	Aug. 23	2763	644	84	1238
Electrometer.....	E. Weston.....	611,724	Oct. 4	239	57, 58	85	49
Electromotive force. Regulation of rotary-transformer direct-current.....	B. G. Lamme.....	606,560	June 28	2837	653	83	1952
Electromotor for electrically-propelled vehicles.....	A. Siemens.....	608,137	July 26	2961	635	84	630
Electroplating apparatus.....	H. R. Boissier.....	611,100	Sept. 20	1725	396	84	1809
Electroplating apparatus.....	J. E. and H. E. Hartley.....	615,699	Dec. 13	886	205	85	1599
Electroplating apparatus.....	L. Potthoff.....	603,286	May 3	73	19	83	615
Electroplating articles in bulk. Apparatus for.....	G. Langbein.....	610,907	Sept. 20	1375	315	84	1742
Electrostatic generating-machine.....	A. H. Hoyt.....	603,041	Apr. 26	2508	569	83	520
Electrotherapeutic apparatus.....	G. G. Duke.....	603,815	May 10	1036	231	83	819
Electrotype-plate-routing machine.....	J. H. Ferguson.....	608,550	Aug. 2	671	152	84	788
Electrotypes, stereotypes, &c. Machine for shaving.....	F. Wesel.....	609,643	Aug. 23	2768	645	84	1239
Elevated carrier.....	H. H. Drew.....	608,656	Aug. 9	880	202	84	848
Elevated carrier.....	E. C. Gipe.....	609,275	Aug. 16	2086	494	84	1090
Elevated carrier.....	C. H. Shipman.....	615,368	Dec. 6	275	63, 64	85	1466
Elevated carriers. Means for supporting ropes of.....	J. Temperley.....	615,370	Dec. 6	280	64, 65	85	1467
Elevating mechanism.....	O. C. Beatty.....	605,467	June 14	759	174	83	1519
Elevating, transporting, and discharging material. Apparatus for.....	O. Johnson.....	603,852	May 10	1111	250	83	833
Elevator: See Bucket elevator. Grain-elevator. Casing or tube elevator. Harvester-elevator. vator. Hay or grain elevator. Cotton-elevator. Hydraulic elevator. Drum-wind elevator. Invalid-elevator. tor. Mail and parcel elevator. Electric elevator. Parcel-elevator. Fluid-elevator. Pneumatic elevator. Fluid-pressure elevator. Safety-elevator. vator. Sucker-rod elevator. Freight and passenger elevator. Tanning-vat elevator. Water-elevator.	J. Barreaux.....	607,326	July 12	1293	276	84	267
Elevator.....	J. H. Clark.....	609,533	Aug. 23	2545	596	84	1196
Elevator.....	W. Cline.....	605,854	June 21	1498	343	83	1674
Elevator.....	B. F. Covell.....	599,768	Mar. 1	166	40	82	1247
Elevator.....	E. M. Fraser.....	610,481	Sept. 6	633	142	84	1560
Elevator.....	J. Hadfield.....	613,627	Nov. 1	724	169	85	755
Elevator.....	C. I. Hall.....	612,722	Oct. 18	2004	475	85	407
Elevator.....	R. W. Hare.....	596,589	Jan. 4	227	50	82	45
Elevator.....	H. J. Herren.....	610,901	Sept. 20	1367	313	84	1740
Elevator.....	G. Holly.....	615,619	Dec. 6	740	171	85	1558
Elevator.....	H. I. Lurye.....	615,080	Nov. 29	3372	773	85	1328
Elevator.....	G. P. Mansione.....	612,780	Oct. 18	2114	502	85	429
Elevator.....	C. H. Newhall.....	608,789	Aug. 9	1102	255	84	890



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Elevator.....	A. L. Plush and G. H. Noblit.....	605,910	June 21	1597	367	83	1695
Elevator.....	F. H. Richards.....	600,033	Mar. 1	689	368	82	1346
Elevator.....	J. H. Rowan.....	613,942	Nov. 8	1264	287	85	878
Elevator.....	R. C. Smith.....	601,909	Apr. 5	553	288	83	105
Elevator.....	E. A. Trapp.....	610,929	Sept. 20	1408	114	84	1749
Elevator.....	B. W. Tucker and W. S. Corwin.....	601,490	Mar. 29	3324	322	82	1933
Elevator.....	F. E. Turner.....	605,937	June 21	1651	752	83	1704
Elevator and carrier.....	H. W. Gaines.....	598,145	Feb. 1	122	379	82	626
Elevator and wagon-dump. Combination.....	F. Gahm.....	615,694	Dec. 13	879	28	85	1598
Elevator-brake.....	G. Brown.....	610,256	Sept. 6	207	203	84	1482
Elevator-bucket.....	B. W. Tucker and W. S. Corwin.....	598,829	Feb. 8	1284	46, 47	82	863
Elevator-car safety-brake.....	E. Collins.....	598,910	Feb. 15	1427	311	82	907
Elevator-car safety-brake. Automatic and emergency.....	W. C. D. Gillespie and W. B. Erb.....	601,340	Mar. 29	3073	343	82	1884
Elevator-cars. Cable attachment for.....	G. H. Reynolds.....	611,416	Sept. 27	2347	693	84	1944
Elevator compound brake. Electric.....	J. D. Ihlder.....	596,513	Jan. 4	91	541	82	20
Elevator control apparatus.....	A. Sundt.....	603,665	May 10	772	20, 21	83	767
Elevator-controller.....	F. S. Braid.....	605,471	June 14	765	171	83	1520
Elevator controlling device. Electric.....	N. P. Otis and R. C. Smith.....	610,197	Sept. 6	81	175	84	1456
Elevator controlling mechanism.....	H. B. Gale.....	598,505	Feb. 8	746	180	82	761
Elevator-door-opening apparatus.....	F. T. Ellithorpe.....	609,987	Aug. 30	3367	181	84	1370
Elevator door or gate actuating mechanism.....	J. Papineau and F. Hysert.....	613,468	Nov. 1	453	782	85	703
Elevator-doors. Automatic means for opening, closing, and locking.....	W. Chater.....	613,224	Oct. 25	2884	103	85	599
Elevator-doors. Electrical apparatus for operating.....	H. R. Smith.....	604,128	May 17	1653	104	83	970
Elevator-doors. Means for operating.....	F. T. Ellithorpe.....	606,003	June 21	1782	371	83	1727
Elevatorelectric control device.....	J. D. Ihlder.....	598,097	Feb. 1	48	408	82	612
Elevator electrical appliance.....	J. H. Roberts.....	615,365	Dec. 6	265	409	85	1465
Elevator for grain, &c.....	J. T. Budd.....	601,409	Mar. 29	3187	62	82	1905
Elevator for granular material.....	A. Marangos.....	607,255	July 12	1169	719	84	241
Elevator-gate.....	R. O. Belles and G. A. Hess.....	612,811	Oct. 25	2182	720	85	462
Elevator-gate.....	G. E. De Vore.....	613,878	Nov. 8	1169	259	85	860
Elevator-gate. Automatic.....	A. Turner.....	611,662	Oct. 4	126	268	81	27
Elevator-gearing.....	E. M. Fraser.....	616,096	Dec. 20	1617	31	85	1759
Elevator governor and safety attachment.....	J. W. Trammell.....	608,931	Aug. 9	1406	378	84	945
Elevator-guide lubricator.....	M. Abt.....	597,251	Jan. 11	1376	332	82	283
Elevator-hatchway cover.....	H. B. Murdock.....	599,857	Mar. 1	340	77, 78	82	1278
Elevator-hoist.....	T. Mason.....	599,618	Feb. 22	2722	636	82	1177
Elevator hoisting apparatus.....	W. C. Fletcher.....	598,415	Feb. 1	604	637	82	717
Elevator lock-stop.....	C. A. Ferguson.....	614,297	Nov. 15	1896	148	85	1020
Elevator-operating apparatus.....	C. I. Hall.....	605,044	May 31	3290	438	83	1322
Elevator or conveyor.....	F. F. Kanne.....	599,101	Feb. 15	1752	753	82	971
Elevator or hoist safety device.....	C. M. Dissosway.....	614,705	Nov. 22	2652	416	85	1174
Elevator-regulator.....	P. Gately.....	597,406	Jan. 18	1639	604	82	352
Elevator-regulator or power-generating attachment.....	F. Burger and H. M. Williams.....	607,827	July 26	2401	381	84	519
Elevator safety apparatus.....	J. C. Ilg.....	598,151	Feb. 1	129	510	82	627
Elevator safety appliance.....	C. D. Conner.....	599,523	Feb. 22	2544	30	82	1142
Elevator safety appliance.....	F. T. Ellithorpe.....	602,437	Apr. 19	1466	598	83	309
Elevator safety appliance.....	N. Hiss.....	612,545	Oct. 18	1670	333	85	345
Elevator safety appliance.....	W. P. Ward.....	612,599	Oct. 18	1773	397	85	363
Elevator safety attachment.....	G. E. and C. L. Cooke.....	610,642	Sept. 13	914	398	84	1633
Elevator safety attachment.....	D. W. Knight.....	603,644	May 10	742	419	83	761
Elevator safety attachment.....	W. C. Preston.....	611,332	Sept. 27	2174	210	84	1913
Elevator safety-brake.....	R. Brandt and A. Oertel.....	612,540	Oct. 18	1661	165	85	343
Elevator safety-brake.....	G. Hancock.....	604,247	May 17	1872	394	83	1013
Elevator safety-brake.....	G. Hancock.....	605,820	June 14	1401	395	83	1638
Elevator safety-brake.....	E. A. Swain.....	600,825	Mar. 15	2163	420	82	1670
Elevator safety-check.....	J. and R. W. Hurrell.....	602,944	Apr. 26	2357	321	83	493
Elevator safety device.....	H. Baum.....	604,557	May 24	2459	538	83	1142
Elevator safety device.....	F. M. Bell.....	604,360	May 24	2095	559	83	1076
Elevator safety device.....	F. M. Bell.....	604,361	May 24	2101	469	83	1077
Elevator safety device.....	W. E. Bennett.....	604,957	May 31	3142	471	83	1294
Elevator safety device.....	F. Blanding.....	613,791	Nov. 8	1015	472	85	830
Elevator safety device.....	R. Paroselli.....	606,489	June 28	2700	723	83	1924
Elevator safety device.....	A. L. Plush and G. H. Noblit.....	605,911	June 21	1599	622	83	1695
Elevator safety device.....	J. T. Taylor.....	601,535	Mar. 29	3400	368	82	1949
Elevator safety device. Electric.....	J. D. Ihlder.....	601,301	Mar. 29	3008	771	82	1873
Elevator safety-hatchway.....	R. G. Yonge.....	614,358	Nov. 15	2018	678	85	1044
Elevator safety mechanism.....	D. I. Prudden.....	607,271	July 12	1205	679	84	249
Elevator safety mechanism.....	J. T. Taylor.....	601,536	Mar. 29	3402	465	82	1950
Elevator safety-stop.....	E. X. Genoud.....	599,999	Mar. 1	586	257	82	1324
Elevator safety-stop. Automatic.....	R. T. Crane.....	606,857	July 5	419	258	84	83
Elevator safety stop or brake.....	W. G. McGee.....	608,297	Aug. 2	221	89, 90	84	699
Elevator-shaft safety-door.....	S. H. Keech.....	615,222	Nov. 29	3662	52	85	1386
Elevator stop mechanism. Automatic.....	T. W. Heermans.....	602,660	Apr. 19	1858	839	83	382
Elevators. Automatic stop for hydraulic.....	F. E. Herdman.....	602,448	Apr. 19	1488	840	83	312



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Elevators by three-button push systems. Electric operation of	J. D. Ihlder	616,190	Dec. 20	1811	419	85	1797
Elevators, &c. Controlling device for	H. B. Gale	598,416	Feb. 1	606	149	82	718
Elevators or lifts. Hoisting mechanism for	R. Lundell and G. T. Rennerfelt	611,693	Oct. 4	179	43	85	38
Embalming and cooling board	H. A. Tozer	616,691	Dec. 27	2770	644	85	2003
Embossing-machine	C. N. Leonard	602,560	Apr. 19	1671	380	83	346
Embossing machine. Wood-	A. Kohler	612,348	Oct. 11	1345	325	85	269
Embossing-roller	J. Hofmeier	615,703	Dec. 13	891	206	85	1601
Embroidering-machine	G. Baum	611,097	Sept. 20	1721	395	84	1808
Embroidering-machine	R. Eder and G. Stein	616,776	Dec. 27	2908	676	85	2032
Embroidering-machine	J. A. Groebli	607,848	July 26	2450	520	84	528
Embroidering-machine	R. Loeb	608,781	Aug. 9	1087	250 251	84	887
Embroidering-machine jacquard mechanism	J. A. Groebli	607,234	July 12	1133	242	84	234
Embroidering-machine jacquard mechanism	H. Hill	604,755	May 31	2816	643	83	1230
Embroidering-machine jacquard mechanism	H. Hill	611,011	Sept. 20	1561	359 360	84	1777
Embroidering-machine jacquard mechanism	R. Scott	610,248	Sept. 6	192	43	84	1479
Embroidering-machine work-feeding mechanism	H. Hill	603,953	May 10	1283	292 293	83	866
Embroidering-machines. Fabric-holding device for	T. D. Eisner	604,741	May 31	2793	639	83	1225
Embroidering-machines. Fabric-holding frame for	J. J. Niederer	605,902	June 21	1578	363	83	1691
Embroidery-frame	T. D. Eisner	604,742	May 31	2793	639	83	1226
Embroidery-frame	B. A. Greyer	598,201	Feb. 1	234	52	82	646
Embroidery-frame	N. C. Leonard	597,007	Jan. 11	965	228	82	204
Embroidery-holder	J. C. Orchard	601,523	Mar. 29	3382	766	82	1945
Embroidery-hoop	W. C. Maynard	610,658	Sept. 13	937	217	84	1638
Embroidery-ring	L. Gibbs	599,127	Feb. 15	1800	429	82	979
Emery or glass cloth or paper. Machine for making	R. J. Edwards	610,128	Aug. 30	3589	832	84	1415
Emery. Producing artificial	W. von Floryanowicz	601,246	Mar. 29	2884		82	1848
Emery-wheel-dressing tool	C. E. Roberts	602,106	Apr. 12	895	194	83	181
Emery-wheel protective cover	G. Benicke	608,417	Aug. 2	453	101	84	746
Enameled ware and ornamenting thereof	J. F. McGowan	596,942	Jan. 4	850		82	165
Enameled ware. Manufacture of	W. F. Niedringhaus	607,625	July 19	2022		84	429
Enameling. Method of and apparatus for	A. P. Otto	605,903	June 21	1579	363	83	1691
Enameling steel	F. G. Niedringhaus	607,624	July 19	2021		84	428
End-gate	I. Cruzan	601,433	Mar. 29	3231	729	82	1914
End-gate	E. E. Hanken	614,104	Nov. 15	1537	352	85	954
End-gate	W. H. Jump	602,853	Apr. 26	2194	498	83	461
End-gate	S. D. Metcalfe	602,138	Apr. 12	943	206	83	190
End-gate	O. C. Sanger	615,366	Dec. 6	272	63	85	1466
End-gate	D. Wilde	600,567	Mar. 15	1739	397	82	1589
End-gate fastener	W. W. Hendricks	601,320	Mar. 29	3045	686	82	1879
End-gate fastener	S. A. Robinson	616,588	Dec. 27	2552	590	85	1961
End-gate fastener	A. Schlapbach	610,332	Sept. 6	372	79	84	1511
End-gate fastening	J. S. Court	603,894	May 10	1190	269	83	847
End-gate fastening device	C. M. Davis	611,678	Oct. 4	150	37	85	32
End-gate for wagons. Dumping	W. S. Witter	610,572	Sept. 13	799	182	84	1608
End-gate lock	N. C. Murray	608,892	Aug. 9	1314	307	84	929
End-gate. Wagon	F. Selle	596,632	Jan. 4	310	67	82	61
End-gate. Wagon	W. L. Smith	600,898	Mar. 22	2294	523	82	1708
Endoscopic instrument	T. S. Pitt	605,652	June 14	1095	252	83	1581
Engine:							
See Air-engine.	Internal-combustion or						
Beating or washing engine.	detonating engine.						
Carding-engine.	Locomotive-engine.						
Chemical engine.	Motive engine.						
Compound engine.	Multiple energizer mo-						
Condensing-engine.	mentum-engine.						
Dental engine.	Oil or gas engine.						
Direct-acting engine.	Pumping-engine.						
Duplex engine.	Rag-engine.						
Electromagnetic engine.	Reciprocating engine.						
Explosion-engine.	Rock-drill engine.						
Explosive-engine.	Rotary engine.						
Fluid-pressure en-	Rotary steam-engine.						
gine.	Self-lubricating engine.						
Gas-engine.	Steam-engine.						
Gas or gasolene en-	Steam or other fluid-						
gine.	pressure engine.						
Gas or oil engine.	Surgical engine.						
Gas or oil motor en-	Thermal expansion-en-						
gine.	gine.						
Gasolene-engine.	Traction-engine.						
Hydraulic engine.	Vapor-engine.						
Internal-combustion engine.	Winding and hauling engine.						
Engine		611,853	Oct. 4	459	110	85	92
Engine	F. O. Ball	603,601	May 3	647	145	83	707
Engine	W. S. Beeman	598,851	Feb. 8	1320	319 320	82	871
Engine	W. B. Brown	598,852	Feb. 8	1324	320 321	82	871
Engine	F. J. F. Bruguiere	599,381	Feb. 22	2268	536 537	82	1089
Engine	J. P. Dorau	607,836	July 26	2423	514 515 516	84	523
Engine	D. L. Dresser	602,059	Apr. 12	810	175 176	83	165
Engine	J. Keller	603,788	May 10	984	220	83	808
Engine	J. Keller and C. H. Haeseler	607,859	July 26	2481	526 527	84	533
Engine	E. G. Newman	598,953	Feb. 15	1511	359 360	82	923



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Engine .....	F. W. Ofeldt .....	611,792	Oct. 4	345	83	85	69
Engine .....	J. Porritt .....	602,794	Apr. 19	2084	472	83	424
Engine .....	W. E. Prall .....	613,939	Nov. 8	1260	286	85	877
Engine .....	W. H. Scott .....	600,806	Mar. 15	2134	487	82	1665
Engine .....	H. Steven .....	604,643	May 24	2605	595	83	1171
Engine .....	G. E. Whitney .....	601,218	Mar. 22	2828	646 647	82	1810
Engine attachment. Gas-	J. H. Wiehl .....	608,944	Aug. 9	1427	336	84	949
Engine condensers. Cooling device for steam-	J. C. Dean .....	612,383	Oct. 11	1397	338	85	280
Engine-controlling device	A. P. Loper .....	604,253	May 17	1880	421	83	1015
Engine coupling. Traction-	J. Zieber .....	614,598	Nov. 22	2452	559	85	1136
Engine crank connection. Steam-	H. M. Newkirk and H. A. Schmidt	614,745	Nov. 22	2721	620	85	1188
Engine cut-off mechanism. Steam-	J. Stumpf .....	603,475	May 3	418	93	83	680
Engine-cylinders. Water-jacket for	W. F. Davis .....	605,405	June 7	670	149	83	1481
Engine for driving tramway-cars	E. F. Piers .....	606,081	June 21	1941	445 446	83	1756
Engine igniter. Explosive-	O. Owens .....	605,333	June 7	517	115 116	83	1451
Engine igniter. Gas-	R. B. Hain .....	607,992	July 26	2711	578	84	578
Engine-indicator. Continuous	T. Gray .....	615,161	Nov. 29	3510	807	85	1356
Engine indicator. Steam-	W. S. Andrews .....	613,003	Oct. 25	2507	597	85	526
Engine-muffler .....	G. L. Gardner .....	606,280	June 28	2321	537	83	1850
Engine muffler. Gas-	C. S. Bird .....	598,845	Feb. 8	1312	317	82	869
Engine reversing mechanism. Steam-	C. Nelson and J. E. Jones .....	598,433	Feb. 1	632	155	82	723
Engine speed-limit .....	J. R. Reynolds .....	606,877	July 5	447	96	84	88
Engine speed-regulator. Explosive-	C. H. P. de Von .....	614,755	Nov. 22	2754	624	85	1191
Engine-starting apparatus. Gas-	W. L. Crouch .....	596,742	Jan. 4	511	117	82	99
Engine-steering mechanism. Traction-	A. H. Reber .....	616,257	Dec. 20	1943	451	85	1823
Engine-stop .....	J. R. and F. P. Reynolds .....	599,014	Feb. 15	1617	383 384	82	944
Engine-stop. Automatic	J. H. Eastwood, C. E. Bibb, and F. McClintock.	604,142	May 17	1676	377	83	975
Engine tender. Traction-	E. G. Ferguson and J. P. Holmen .....	601,225	Mar. 22	2842	649 650	82	1812
Engine tender. Traction-	W. S. Kelley .....	611,635	Oct. 4	74	19	85	17
Engines. Automatic safety-stop for	J. K. Wright .....	602,385	Apr. 12	1375	308	83	277
Engines. Automatic stopping mechanism for	V. E. Hunter .....	597,198	Jan. 11	1289	301 302	82	267
Engines. Cooling means for explosive-	G. C. Bracklow .....	615,672	Dec. 13	840	195	85	1590
Engines. Device for increasing crank-throw of	G. M. Hugus .....	610,488	Sept. 6	646	144	84	1562
Engines. Electric igniter for explosive-	H. F. Probert .....	599,354	Feb. 22	2212	524	82	1077
Engines. Electric igniter for gas-	F. E. Culver .....	599,316	Feb. 22	2138	507	82	1064
Engines. Electric igniter for gas-	A. J. Tackle .....	606,312	June 28	2380	552	83	1862
Engines. Electric igniter for gas-	N. Tesla .....	609,250	Aug. 16	2032	481	84	1080
Engines. Electric ignition device for internal-combustion	L. W. Ravenéz .....	613,309	Nov. 1	149	34	85	646
Engines. Fire-extinguisher and blower for traction-	J. G. Baxter .....	611,598	Oct. 4	5	1	85	4
Engines. Igniter for hydrocarbureted-air	W. D. and S. Priestman and H. Richardson.	614,889	Nov. 29	2988	685	85	1255
Engines. Igniter or sparkers for gas, oil, or vapor.	F. W. Canfield .....	612,701	Oct. 18	1964	466 508	85	400
Engines. Igniting device for gas-	W. A. Bole and T. J. Hogan .....	611,348	Sept. 27	2202	509 510	84	1918
Engines. Igniting mechanism for explosive-	J. Lizotte .....	608,409	Aug. 2	436	96	84	743
Engines. Mixer and vaporizer for explosive-	G. W. Starr and J. H. Cogswell .....	611,341	Sept. 27	2190	506	84	1916
Engines. Power mechanism for traction-	C. B. Bostwick .....	607,014	July 12	682	148 149	84	155
Engines. Reversing mechanism for gas or other	B. W. Grist .....	599,779	Mar. 1	181	45	82	1250
Engines. Starting or reversing mechanism for steam-	G. Schuhmann .....	613,783	Nov. 8	998	228	85	827
Engraving and ruling machine	C. Schneider .....	615,755	Dec. 13	978	227 228 229	85	1617
Engraving-machine	N. Dedrick .....	614,845	Nov. 29	2894	666 667 668	85	1237
Engraving-machine	F. Mink .....	606,676	July 5	77	16	84	18
Engraving-machine and color-chart	L. C. G. Lesage .....	596,816	Jan. 4	636	146	82	123
Engravings. Producing	B. F. B. Fagg .....	597,277	Jan. 11	1410	331	82	290
Envelop .....	A. Butzer .....	598,359	Feb. 1	493	118	82	695
Envelop .....	P. E. Gillette .....	599,960	Mar. 1	528	120	82	1313
Envelop .....	M. L. Hinchman .....	598,290	Feb. 1	397	94	82	677
Envelop .....	J. A. Lefferts .....	606,349	June 28	2451	568	83	1875
Envelop .....	O. A. A. Moldal .....	601,583	Mar. 29	3470	790	82	1963
Envelop .....	C. P. Monfort .....	604,666	May 24	2644	606	83	1179
Envelop .....	C. A. Murray and R. Schultheiss .....	596,608	Jan. 4	266	59	82	53
Envelop .....	E. V. D. Rousseau .....	604,419	May 24	2195	492	83	1096
Envelop .....	D. A. Seligman .....	614,994	Nov. 29	3204	737	85	1299
Envelop .....	S. B. Sigesmond .....	602,411	Apr. 12	1419	321	83	286
Envelop .....	G. Southard .....	606,366	June 28	2484	577	83	1881
Envelop .....	D. W. Stier .....	614,516	Nov. 22	2308	529	85	1111
Envelop. Double	W. S. Carver .....	604,723	May 31	2765	632	83	1220
Envelop-fastener	G. E. Adams .....	615,056	Nov. 29	3325	764	85	1320
Envelop-fastener	W. Barnard .....	606,498	June 28	2715	629	83	1928
Envelop-fastening	C. L. Smith .....	610,099	Aug. 30	3539	820	84	1405
Envelop folding and sealing mechanism	J. A. Sherman .....	598,716	Feb. 8	1118	269 270 300	82	831
Envelop-machine	E. P. Waterhouse .....	615,931	Dec. 13	1291	301 302 303	85	1676
Envelop. Money-	A. Hansen .....	598,659	Feb. 8	1018	245	82	813
Envelop-opener	W. H. Fox .....	605,093	June 7	47	1	83	1362
Envelop-opener	C. W. Stevener .....	601,309	Mar. 29	3029	682	82	1876
Envelop-opener	W. Yates .....	606,261	June 28	2295	531	83	1845
Envelop or wrapper opener	F. E. Munn .....	599,724	Mar. 1	81	19	82	1232



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Envelop. Return-	J. M. Carter	604,722	May 31	2764	632	83	1220
Envelop. Reversible	E. A. Burlingame	608,752	Aug. 9	1041	239	84	879
Envelop. Safety-	U. S. G. Brobst	607,336	July 12	1315	281	84	271
Envelop. Safety-	F. C. Cuckson	608,583	Aug. 9	743	171	84	823
Envelop. Safety-	A. and W. Grupe	597,974	Jan. 25	2616	611	82	558
Envelop. Safety-	M. Kroell	614,728	Nov. 22	2696	614	85	1183
Envelop. Safety-	J. W. Riley	603,969	May 10	1308	300	83	870
Envelop safety device	A. H. Danner	598,859	Feb. 8	1337	323	82	874
Envelops. Machine for applying adhesive material to	C. N. Bintlcliffe	597,453	Jan. 18	1735	401	82	370
Eraser	W. A. Barr. (Reissue)	11,682	July 26	3014	648	84	639
Eraser	B. B. Goldsmith	605,163	June 7	189	48	83	1386
Eraser and manicure implement. Ink-	R. M. Pancoast	606,937	July 5	527	116	84	105
Evaporating apparatus	M. E. Brigham	614,926	Nov. 29	3057	703	85	1269
Evaporating apparatus	E. J. Duff	598,079	Feb. 1	15	4, 5	82	606
Evaporating apparatus	L. D. Hobson and H. E. Blair	616,187	Dec. 20	1806	418	85	1796
Evaporating apparatus	W. H. Underwood	603,543	May 3	557	123	83	708
Evaporating-pan	C. S. Bediant	615,131	Nov. 29	3456	793	85	1346
Evaporating-pan	W. E. Shoales	613,892	Nov. 8	1193	272	85	864
Evaporator	F. X. Black, L. P. Clawson, and J. A. Connelly.	614,607	Nov. 22	2475	565	85	1140
Evaporator	H. B. Schmidt	614,627	Nov. 22	2515	573	85	1148
Evaporator	H. B. Schulte	616,638	Dec. 27	2654	614	85	1981
Evaporator. Brine-	R. D. Miller	614,739	Nov. 22	2711	617	85	1186
Evener. Eight-horse	A. W. Knee and J. W. Robinson	611,492	Sept. 27	2488	574	84	1970
Evener. Two-horse	J. N. Wilson	609,065	Aug. 16	1677	399	84	1012
Excavating and back-filling apparatus for sewers, &c. Combined	D. I. Calhoun	597,312	Jan. 11	1463	343	82	301
Excavating and conveying. Cableway system and apparatus for	J. H. Lancaster	605,488	June 14	792	182	83	1525
Excavating apparatus	J. W. Adams	599,760	Mar. 1	154	37	82	1245
Excavating, conveying, and distributing clay upon ballast-kilns. Machine for	J. B. Faulkner	599,124	Feb. 15	1793	427	82	977
Excavating-machine	G. J. Miller	609,449	Aug. 23	2387	428	84	1168
Excavating-machine	W. Paulitschke	598,680	Feb. 8	1055	561	82	819
Excavating or dredging bucket	J. A. Mumford	598,292	Feb. 1	400	254	82	677
Excavating machinery	A. Cryer and E. C. Newby	602,309	Apr. 12	1251	255	83	252
Excavating-tool	H. Rakov	603,858	May 10	1126	276	83	895
Excavation extension-brace	J. K. Murphy	606,631	June 28	2961	253	83	895
Excavator	M. C. Guy	597,578	Jan. 13	1933	687	83	1975
Excavator	N. C. Wright	611,985	Oct. 4	674	450	82	411
Excavator. Dredging-	F. H. Heath	598,988	Feb. 15	1575	164	85	132
Excelsior-machine	W. H. Brown	610,893	Sept. 20	1355	373	82	936
Excelsior-machine. Rotary	J. Rollins	608,430	Aug. 2	474	374	84	1738
Excelsior. Manufacturing	J. M. Titus	615,416	Dec. 6	379	107	84	750
Exerciser. Electric muscular	E. Sandow	602,774	Apr. 19	2044	90	85	1486
Exercising apparatus	S. Sachs and H. Jaffe	605,747	June 14	1246	462	83	417
Exercising apparatus. Electrotherapeutic	A. Martin	600,230	Mar. 8	1137	288	83	1610
Exercising device	W. M. Marshall	610,716	Sept. 13	1034	259	82	1457
Exercising device	F. E. Spink	605,237	June 7	332	239	84	1658
Exercising-machine	B. A. McFadden	602,517	Apr. 19	1601	77	83	1414
Exercising-machine	E. Sandow	610,416	Sept. 6	524	367	83	335
Exhauster	N. P. Pratt	602,770	Apr. 19	2033	114	84	1539
Exhauster	J. M. Seymour, Jr	616,590	Dec. 27	2555	460	83	415
Exhibit-protector	H. J. Olney	596,824	Jan. 4	651	491	85	1962
Exhibiting case. Article-	J. J. Beshel	614,691	Nov. 22	2627	150	82	126
Exhibitor. Card-	I. Uschakoff	613,339	Nov. 1	211	598	85	1169
Exhibitor for series pictures	F. H. Morse	607,761	July 19	2246	48	85	637
Exhibitors. Support for picture-	R. Aizenman	598,261	Feb. 1	337	474	84	471
Expansion-bolt	J. F. Downes	612,316	Oct. 11	1285	77, 78	82	665
Explosion-engine	S. Rolfe	597,860	Jan. 25	2426	310	85	258
Explosive	T. Ievlev	598,096	Feb. 1	46	565	82	521
Explosive and making same	G. Beneké	608,316	Aug. 2	260	-----	82	612
Explosive and making same	E. A. G. Street	598,618	Feb. 8	938	-----	84	707
Explosive-engine	S. Bouton	606,504	June 28	2723	938	82	799
Explosive-engine	L. Halvorson	600,147	Mar. 8	1007	627	83	1929
Explosive-engine	C. E. Henriod	603,986	May 10	1331	628	82	1432
Explosive-engine	P. L. Hider	599,235	Feb. 15	1974	225	82	1432
Explosive-engine	G. A. Newman	602,707	Apr. 19	1941	226	83	398
Explosive-engine	J. A. Secor	602,477	Apr. 19	1537	440	83	398
Explosive-engine	E. D. Strong	597,921	Jan. 25	2519	441	83	322
Explosive-engine	A. Winton	598,832	Feb. 8	1289	349	82	538
Explosive-engine	A. Winton	600,819	Mar. 15	2151	312	82	864
Explosive-engine	A. Winton	610,465	Sept. 6	607	491	82	1668
Explosives. Making	J. E. Blomén	599,589	Feb. 22	2668	492	84	1555
Exposure-meter	J. G. Baker	616,760	Dec. 27	2883	136	82	1166
Extension banquet-table	F. H. Harding	614,468	Nov. 22	2235	668	85	2027
Extension-bolt	C. O. Case	598,194	Feb. 1	215	512	85	1099
Extension-chair	J. G. Bulkley	613,964	Nov. 8	1300	50	82	643
Extension-table	C. A. Curl	606,834	July 5	376	295	85	885
Extension-table	A. Eschner	603,078	Apr. 26	2578	296	84	75
Extension-table	M. E. Johnston	597,500	Jan. 18	1812	585	83	533
Extension-table	W. H. Klein	602,509	Apr. 19	1585	419	82	386



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Extension-table	C. Marker	604,939	May 31	3119	716	83	1289
Extension-table	F. P. Musser	613,589	Nov. 1	664	153	85	742
Extension-table	E. E. Pangburn	614,751	Nov. 22	2731	623	85	1190
Extension-table	C. Poupon	606,084	June 21	1945	447 448	83	1757
Extension-table	C. B. Smith	596,551	Jan. 4	157	35, 36	82	32
Extension table, seat, &c	G. Stephen	607,290	July 12	1233	263 264	84	254
Extractor:							
See Beeswax-extractor.	Rock or stump extractor.						
Cork-extractor.	Spike-extractor.						
Fruit-juice extractor.	Spike or nail extractor.						
Juice-extractor.	Staple-extractor.						
Nail-extractor.	Stump-extractor.						
Oil-extractor.	Stump or tree extractor.						
Exudation-cap	J. W. Tallmadge	599,372	Feb. 22	2246	533	82	1085
Eye and cheek protector	W. E. Belt and E. Bruckner	613,186	Oct. 25	2797	660	85	584
Eye protector or guard	E. G. Stevens	599,289	Feb. 15	2072	491	82	1029
Eye-shade	E. W. Philbrook	608,005	July 26	2755	585	84	589
Eye-shield	C. R. Sheldon	611,396	Sept. 27	2311	533	84	1938
Eyes. Machine for forming interlocking	F. W. and A. G. Hoefer	607,372	July 12	1382	294 295	84	284
Eyeglass-case	H. E. Bemis	608,640	Aug. 9	854	196	84	843
Eyeglass-case	C. E. White	602,025	Apr. 5	756	162	83	143
Eyeglass-frame	C. C. Davis	614,422	Nov. 15	2144	494	85	1067
Eyeglass nose-guard	G. W. Wells	604,448	May 24	2253	506	83	1106
Eyeglass or spectacle frame	I. Fox	614,165	Nov. 15	1645	378	85	974
Eyeglass-stud	J. H. Nason	608,214	Aug. 2	86	22	84	672
Eyeglasses	W. N. Blanchard	597,941	Jan. 25	2562	598	82	547
Eyeglasses	E. F. Braddock	604,928	May 31	3104	713	83	1286
Eyeglasses	T. M. Heard	598,928	Feb. 15	1462	349	82	913
Eyeglasses	J. F. Sumner	599,950	Mar. 1	513	116	82	1310
Eyelet	E. Kempshall	600,126	Mar. 1	969	214	82	1407
Eyelet	C. F. Kempshall	606,061	June 21	1899	437	83	1748
Eyelet	E. Kempshall	612,848	Oct. 25	2261	539	85	475
Eyelet	G. B. Miller	605,892	June 21	1566	360	83	1689
Eyelet-forming die	J. Pickles	596,788	Jan. 4	589	136	82	113
Eyelet-hole-finishing device	J. B. Moran	604,589	May 24	2516	572	83	1154
Eyelet-punching machine	T. A. Perrins	600,020	Mar. 1	629	143	82	1333
Eyeletting-machine	S. Field	603,023	Apr. 26	2480	563	83	515
Eyeletting-machine	S. Field	605,574	June 14	933	218	83	1553
Eyeletting-machine	S. Field	606,964	July 5	565	125	84	112
Eyeletting-machine	P. R. Glass	615,018	Nov. 29	3245	746	85	1306
Eyeletting machine. Shoe-	E. F. Selz	614,668	Nov. 22	2586	588	85	1161
Fabric:							
See Bandage fabric.	Plaited fabric.						
Bullet-proof fabric.	Plush fabric.						
Carpet fabric.	Shirred fabric.						
Fence fabric.	Tubular woven fabric.						
Knit fabric.	Waterproof fabric.						
Knit pile fabric.	Wire fabric.						
Knitted fabric.	Woven fabric.						
Pattern fabric.							
Fabric	O. A. Moses	605,567	June 14	923	216	83	1551
Fabric-cleaning machine	F. Burger	614,832	Nov. 29	2869	660	85	1232
Fabric-handling apparatus	H. K. Parry	615,890	Dec. 13	1205	282	85	1661
Fabric-turfing implement	M. F. Connett	606,707	July 5	129	28	84	28
Fabric-turfing machine	M. Cameron	614,084	Nov. 15	1500	343 344	85	947
Fabric-turfing machine	M. Cameron	614,085	Nov. 15	1503	344	85	948
Fabric-turning machine. Tubular-	R. Barrie	604,512	May 24	2379	541	83	1128
Fabrics. Apparatus for applying liquids to textile.	F. Girard	606,454	June 28	2651	610	83	1915
Fabrics. Machine for cutting ribbed	C. F. and H. F. Adams	616,280	Dec. 20	1983	461	85	1318
Fabrics or permeable materials with nitrocellulose compounds and product produced thereby. Coat-	F. G. Annison	602,797	Apr. 19	2091	-----	83	426
ing							
Fabrics. Producing white effects on	S. F. Carter	606,776	July 5	271	-----	84	54
Fabrics. Producing white effects on	S. F. Carter	606,777	July 5	272	-----	84	54
Face and neck protector	J. Weil	603,306	May 3	104	25	83	621
Face-protector for motormen	J. Bowen	600,709	Mar. 15	1980	450	82	1635
Fan and pump for propelling air, &c. Screw	C. A. Parsons	613,775	Nov. 8	988	225 226	85	825
Fan. Blowing-	J. Brolich	609,571	Aug. 23	2607	610	84	1208
Fan. Car-	H. B. Vaughan	600,814	Mar. 15	2146	490	82	1667
Fan. Educational or advertising	W. L. Hall	598,509	Feb. 8	753	182	82	762
Fan. Electric	D. L. and R. H. Bates	613,054	Oct. 25	2592	614 615	85	542
Fan. Electric	O. F. Conklin	596,483	Jan. 4	28	7	82	8
Fan. Motor-	F. Lenzner	616,712	Dec. 27	2806	650	85	2011
Fan. Ventilating-	M. Rolle	610,851	Sept. 13	1273	294	84	1706
Fan. Ventilating-	M. Rolle	610,852	Sept. 13	1274	294 295	84	1706
Fanning device	H. De Tangle	610,601	Sept. 13	853	195	84	1620
Fare-box	J. H. Coleman	608,107	July 26	2915	624	84	620
Fare box and register	F. B. Wagner	614,147	Nov. 15	1618	371	85	969
Fare indicating and registering apparatus for cabs, &c.	F. W. G. Bruhn	605,442	June 7	724	163	83	1492
Fare-receipt slip	F. S. Borton and C. F. Bates	603,826	May 10	1059	236	83	823
Fare-recorder	W. J. Fordney	605,247	June 7	353	80, 81	83	1418
Fare-recorder	J. F. Ohmer	597,560	Jan. 18	1899	442	82	404
Fare-register	E. Fuchs	602,700	Apr. 19	1928	458	83	395
Fare-register	J. A. Keyes	609,938	Aug. 30	3257	761	84	1348
Fare-register	A. E. Nielsen	600,127	Mar. 1	969	215	82	1407
Fare-register	J. F. Ohmer and H. Tyler	597,561	Jan. 18	1900	443 444	82	404



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fare-register.....	J. F. Ohmer and H. Tyler. (Reissue.)	11,681	July 19	2373	503 504 368	84	497
Fare-register.....	C. E. Pratt.....	605,912	June 21	1602	369 370	83	1695
Fare register and record.....	G. D. Shaft and H. Hays.....	603,861	May 10	1132	255	83	886
Fare-register-operating mechanism. Car	C. Bernstein.....	604,295	May 17	1961	439	83	1081
Farm-gate.....	M. Bruner.....	612,514	Oct. 18	1616	385	85	335
Farm-gate.....	A. F. Brya.....	602,892	Apr. 26	2248	512	83	472
Farm-gate.....	A. A. Downey.....	605,948	June 21	1677	384	83	1709
Farm-gate.....	G. Feldman.....	614,540	Nov. 22	2341	536	85	1118
Farm-gate.....	H. N. Fredericks.....	612,325	Oct. 11	1301	315	85	260
Farm-gate.....	B. J. Huckey.....	608,367	Aug. 2	353	77	84	726
Farm-gate.....	G. G. Kaiser.....	612,565	Oct. 18	1717	407	85	353
Farm-gate.....	T. C. Lippitt.....	606,467	June 28	2668	615	83	1918
Farm-gate.....	F. M. Lucas.....	606,724	July 5	160	35	84	33
Farm-gate.....	R. E. McClelland.....	606,177	June 21	2109	485	83	1788
Farm-gate.....	G. H. Mott.....	597,169	Jan. 11	1244	292	82	259
Farm-gate.....	J. W. Paulen.....	605,063	May 31	3321	762	83	1328
Farm-gate.....	J. A. Wallace.....	609,483	Aug. 23	2468	576	84	1182
Farm-gate. Swinging and sliding	J. Pratt.....	610,916	Sept. 20	1388	318	84	1744
Fastener.....	E. N. Parker.....	604,542	May 24	2433	553	83	1137
Fastener.....	P. A. Raymond.....	598,576	Feb. 8	873	209	82	786
Fastener.....	H. S. Richardson.....	598,959	Feb. 15	1519	362	82	925
Fastener.....	W. S. Richardson.....	604,637	May 24	2593	592	83	1169
Fastener.....	C. H. Tesch.....	601,289	Mar. 29	2985	674	82	1868
Fastener.....	C. V. Walter.....	608,495	Aug. 2	576	129	84	770
Fastener. Separable.....	G. E. Adams.....	613,874	Nov. 8	1164	267	85	859
Fastener. Separable.....	G. E. Adams.....	615,336	Dec. 6	201	50	85	1452
Fastener socket member. Separable.....	G. E. Adams.....	615,776	Dec. 13	1026	240	85	1626
Fastener stud member. Separable.....	G. E. Adams.....	616,758	Dec. 27	2880	667	85	2026
Fasteners. Stud member for separable	G. E. Adams.....	616,389	Dec. 20	2181	509	85	1871
Fastening device.....	A. Currier.....	601,998	Apr. 5	715	151	83	135
Fastening device.....	W. T. Messinger.....	604,408	May 24	2179	488	83	1092
Fastening device.....	C. S. Morris.....	607,447	July 19	1523	324	84	327
Fastening device.....	S. Patchett.....	605,510	June 14	825	192	83	1532
Fastening device.....	S. F. Paul.....	613,299	Nov. 1	134	32	85	643
Fastening device.....	C. F. Uhlmann.....	613,829	Nov. 8	1084	247	85	843
Fastenings. Machine for inserting metallic	L. A. Casgrain.....	611,990	Oct. 4	687	168	85	134
Fat. Process of and apparatus for extracting	E. Maertens.....	615,030	Nov. 29	3268	750	85	1310
Fats or oils into fatty acids and glycerin. Decomposing	E. Twitchell.....	601,603	Mar. 29	3499	82	82	1969
Faucet.....	R. Barrett.....	600,766	Mar. 15	2073	475	82	1654
Faucet.....	P. Boutilier.....	597,631	Jan. 18	2020	472	82	428
Faucet.....	C. W. Brackett.....	602,300	Apr. 12	1239	272	83	249
Faucet.....	M. S. Byrne, Jr.....	613,024	Oct. 25	2537	604	85	532
Faucet.....	A. B. Edmands.....	597,842	Jan. 25	2395	557	82	515
Faucet.....	F. F. Field.....	602,598	Apr. 19	1739	395	83	358
Faucet.....	G. A. Madison.....	598,795	Feb. 8	1236	299	82	854
Faucet.....	P. K. O'Lally.....	612,267	Oct. 11	1199	287	85	243
Faucet.....	P. K. O'Lally.....	612,268	Oct. 11	1200	288	85	243
Faucet.....	P. K. O'Lally.....	616,629	Dec. 27	2626	608	85	1975
Faucet.....	R. Rowe.....	599,256	Feb. 15	2011	477	82	1017
Faucet.....	E. U. Scoville.....	603,744	May 10	903	201	83	792
Faucet.....	R. Smith.....	596,634	Jan. 4	313	68	82	62
Faucet.....	W. R. Taylor.....	614,517	Nov. 22	2309	529	85	1111
Faucet.....	G. T. Wilson.....	615,939	Dec. 13	1315	306	85	1680
Faucet and pipe-cleaner. Liquid-distributing	J. F. Dredge and J. Doyle.....	603,465	May 3	399	89	83	678
Faucet. Automatic.....	J. Easker.....	605,540	June 14	868	203 204	83	1541
Faucet. Automatic gaging.....	H. E. Knottnerus.....	606,559	June 28	2835	653	83	1951
Faucet. Automatic pressure-equalizing beer-	C. R. Martin and L. A. Spinelli.....	609,554	Aug. 23	2576	603	84	1202
Faucet. Automatic pressure-equalizing beer-	F. W. Shields, L. A. Spinelli, and C. R. Martin.....	598,579	Feb. 8	876	210	82	787
Faucet. Beer-measuring.....	E. Boening.....	603,984	May 10	1328	304	83	874
Faucet. Filtering.....	W. Zoller.....	609,721	Aug. 23	2889	675	84	1262
Faucet for cans, &c. Vented.....	G. W. Banker.....	610,885	Sept. 20	1341	307	84	1735
Faucet for drawing beer, &c.....	J. W. Zimmerman.....	615,774	Dec. 13	1023	240	85	1626
Faucet for washbowls.....	W. C. Humphreys.....	615,852	Dec. 13	1147	267	85	1649
Faucet. Hot and cold water.....	G. A. Soderlund.....	601,718	Apr. 5	187	36	83	37
Faucet. Measuring.....	E. Boening.....	603,983	May 10	1326	304	83	874
Faucet. Measuring.....	E. Boening.....	612,658	Oct. 18	1897	449	85	387
Faucet. Measuring.....	L. H. Johnson.....	616,671	Dec. 27	2727	634	85	1995
Faucet. Measuring.....	C. F. Kellom.....	598,345	Feb. 1	474	113	82	691
Faucet. Self-closing.....	F. Burger and H. M. Williams.....	607,732	July 19	2198	464	84	462
Faucet. Self-closing.....	J. P. Farley.....	607,429	July 19	1494	317	84	322
Faucet. Water.....	T. J. Kiernan.....	612,947	Oct. 25	2418	576	85	507
Faucet. Water.....	J. C. Perry.....	606,025	June 21	1531	422	83	1735
Feed-bag support.....	T. Mulcahy.....	607,449	July 19	1526	325	84	328
Feed-box.....	H. L. Ferris.....	598,563	Feb. 8	846	202	82	781
Feed-box. Wagon-pole.....	C. Sample.....	607,280	July 12	1221	261	84	252
Feed-cutter.....	G. C. Hanger.....	612,925	Oct. 25	2387	568	85	501
Feed-cutter.....	L. L. Lamb.....	600,154	Mar. 8	1020	229	82	1434
Feed-cutter.....	A. Mattijetz.....	602,345	Apr. 12	1304	290 291	83	263
Feed-cutter.....	J. Schildhauer.....	611,335	Sept. 27	2178	503 504	84	1914
Feed-cutter.....	C. F. Search.....	604,127	May 17	1651	371	83	970
Feed-cutter and blower. Combined.....	D. M. Thom.....	608,014	July 26	2769	588	84	592
Feed device. Mechanical.....	E. W. Buell.....	607,212	July 12	1074	232	84	223
Feed for boilers. Water.....	A. B. Willoughby.....	601,693	Apr. 5	123	24	83	26
Feed mechanism.....	F. H. Richards.....	597,566	Jan. 18	1908	445 446	82	406
Feed-mill.....	J. M. Hess.....	615,173	Nov. 29	3534	812 813	85	1361
Feed-mill.....	J. S. Woodcock.....	612,940	Oct. 25	2407	573 574	85	505



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Feed-mixer.....	W. G. Pearson.....	603,537	May 3	550	121	83	706
Feed-regulator.....	O. Johnson and P. P. Holt.....	613,574	Nov. 1	638	148	85	737
Feed regulator. Boiler.....	C. B. Mitchell.....	610,913	Sept. 20	1383	317	84	1744
Feed-reservoir. Automatic.....	A. P. Chapin.....	609,755	Aug. 23	2910	687	84	1272
Feed-roll.....	M. M. Whipple, 2d.....	615,646	Dec. 6	793	183	85	1569
Feed-trough.....	J. G. Busch.....	596,804	Jan. 4	614	142	82	118
Feed-trough.....	N. R. Medaugh.....	599,572	Feb. 22	2638	618	82	1161
Feed-water and circulation. Heating.....	J. King.....	604,052	May 17	1505	338 339	83	943
Feed-water filter for steam-boilers.....	H. B. and J. S. Watson.....	611,667	Oct. 4	134	33	85	29
Feed-water heater.....	C. Applegate.....	615,517	Dec. 6	564	129	85	1521
Feed-water heater.....	C. J. Jackson.....	604,249	May 17	1874	420	83	1013
Feed-water heater.....	B. F. Kelley.....	600,480	Mar. 8	1558	358 359	82	1535
Feed-water heater and purifier.....	L. Baker.....	613,485	Nov. 1	502	113	85	711
Feed-water heater and purifier.....	C. E. Ferreira.....	615,830	Dec. 13	1110	260	85	1643
Feed-water heater and purifier.....	T. Gunning.....	599,983	Mar. 1	561	129	82	1319
Feed-water heater. Steam-boiler.....	J. Dickson.....	606,958	July 5	555	123	84	110
Feed-water heater. Steam-boiler.....	J. Dickson.....	609,929	Aug. 30	3237	758	84	1344
Feed-water heater. Sectional.....	J. E. Schlieper.....	607,960	July 26	2654	564 565 566	84	567
Feed-water-heating apparatus. Boiler.....	J. Thom.....	616,431	Dec. 20	2256	526 527	85	1886
Feed-water-purifying device.....	J. S. Calkins.....	608,250	Aug. 2	143	35	84	682
Feed-water regulator.....	L. Dery.....	606,195	June 28	2145	492	83	1814
Feed-water regulator and low-water alarm.....	E. P. Lynn.....	598,712	Feb. 8	1113	268	82	830
Feed-water regulator. Automatic electric.....	A. E. Maccoun and J. Noey.....	603,650	May 10	750	166	83	763
Feed-water regulator. Boiler.....	A. Blechynden.....	608,568	Aug. 9	710	161 162	84	816
Feed-water regulator. Boiler.....	A. G. Mumford.....	607,261	July 12	1178	252	84	242
Feed-water regulator for steam-boilers. Automatic.....	P. O. Hipp.....	609,544	Aug. 23	2562	600	84	1200
Feed-water regulator, gas cut-off, and alarm for boilers.....	J. W. Dearduff.....	598,499	Feb. 8	738	178	82	760
Feed-water supply. Engine.....	E. S. Hough.....	608,679	Aug. 9	922	212	84	857
Feeder and carrier. Cane.....	D. Webre and S. Haydel.....	611,878	Oct. 4	495	120	85	99
Feeder and waterer. Stock.....	H. J. Bolinski.....	609,728	Aug. 23	2897	677	84	1264
Feeder. Automatic boiler.....	G. Johnson and M. F. Smith.....	601,258	Mar. 29	2908	662	82	1852
Feeder. Automatic boiler.....	J. H. Sharp.....	607,286	July 12	1228	262	84	253
Feeder. Automatic steam-boiler.....	R. Downs and A. M. Johnston.....	607,509	July 19	1809	376	84	390
Feeder. Automatic stock.....	D. A. Askew.....	600,056	Mar. 1	790	180	82	1369
Feeder. Steam-boiler.....	J. Kirkwood.....	597,884	Jan. 25	2459	574	82	527
Feeder. Steam-boiler.....	J. A. Sumner.....	611,871	Oct. 4	486	117	85	97
Feeder. Steam-boiler.....	T. J. Whitney.....	613,404	Nov. 1	349	80	85	682
Feeder. Stock.....	J. C. Griffiths.....	599,935	Mar. 1	492	111	82	1306
Feeding apparatus. Boiler.....	J. R. Kelley.....	611,967	Oct. 4	641	157	85	125
Feeding device. Animal.....	G. W. Tallman.....	599,748	Mar. 1	127	29	82	1240
Feeding device. Automatic stock.....	J. Shepard.....	612,917	Oct. 25	2371	565	85	497
Feeding grain to horses. Device for.....	E. G. Morgan and F. H. Rose.....	600,980	Mar. 22	2423	554	82	1732
Feeding mechanism. Automatic.....	E. P. Holden.....	611,364	Sept. 27	2242	518	84	1925
Feeding-trough.....	A. A. Innis.....	608,863	Aug. 9	1275	297	84	921
Felt. Apparatus for forming hair.....	H. W. French.....	606,163	June 21	2084	479 480	83	1784
Fence.....	H. H. Brandes.....	605,849	June 21	1484	340	83	1672
Fence.....	F. Childers.....	605,393	June 7	641	143	83	1475
Fence.....	W. Duncan.....	598,625	Feb. 8	960	232	82	802
Fence.....	I. N. Feltenberger.....	606,527	June 28	2758	637	83	1937
Fence.....	T. B. Ferguson, Jr.....	603,628	May 10	713	159	83	755
Fence.....	C. H. Flanagan and E. Martin.....	607,410	July 12	1452	308	84	296
Fence.....	A. Flesher and J. L. Crisler.....	606,530	June 28	2790	644	83	1942
Fence.....	D. D. Frisbie.....	605,094	June 7	49	15, 16	83	1362
Fence.....	F. W. Gasper.....	607,431	July 19	1497	318	84	322
Fence.....	M. Gleason.....	614,300	Nov. 15	1901	439	85	1021
Fence.....	T. R. Greene.....	603,901	May 10	1202	271	83	850
Fence.....	G. B. Greer.....	602,217	Apr. 12	1099	241	83	221
Fence.....	H. H. Herod, Jr.....	600,722	Mar. 15	2002	456	82	1640
Fence.....	J. W. Holler.....	603,274	May 3	53	14	83	611
Fence.....	D. J. Jones.....	616,538	Dec. 27	2472	573	85	1947
Fence.....	J. M. Keith.....	613,449	Nov. 1	427	98	85	698
Fence.....	E. M. Kopka.....	597,583	Jan. 18	1942	451	82	413
Fence.....	C. Marsch.....	597,684	Jan. 18	2113	494	82	444
Fence.....	A. S. Robinson.....	609,369	Aug. 16	2236	529	84	1120
Fence.....	G. P. Smith.....	611,981	Oct. 4	669	162	85	131
Fence.....	M. Steffee.....	611,186	Sept. 20	1878	433	84	1838
Fence.....	Z. and J. C. Taylor.....	598,754	Feb. 8	1174	282	82	842
Fence.....	E. B. Willix.....	605,570	June 14	928	217	83	1552
Fence.....	H. Wyche.....	596,688	Jan. 4	410	92	82	81
Fence-building appliance. Wire.....	G. Kentch.....	608,608	Aug. 9	786	180	84	830
Fence-building appliance. Wire.....	J. T. T. Kisinger.....	610,489	Sept. 6	646	145	84	1562
Fence clamp. Wire.....	F. Johnson.....	606,461	June 28	2660	612	83	1917
Fence compensator. Wire.....	S. C. Bowen.....	606,506	June 28	2725	628	83	1930
Fence fabric. Mesh-wire.....	W. A. Kilmer.....	615,281	Dec. 6	113	31	85	1435
Fence. Farm.....	M. D. F. Russell and W. T. Fentress.....	616,734	Dec. 27	2849	660	85	2020
Fence-fastening device. Wire.....	H. H. Hemann.....	611,783	Oct. 4	330	79	85	67
Fence. Flood.....	S. F. Miller.....	607,568	July 19	1919	397	84	408
Fence-gate.....	J. G. Gunvaldson.....	612,456	Oct. 18	1522	366	85	317
Fence-gate. Wire.....	D. W. Aylworth.....	598,069	Feb. 1	1	1	82	603
Fence-gate. Wire.....	P. O. Gorman.....	608,328	Aug. 2	294	65	84	714
Fence implement. Wire.....	C. M. Lamb.....	601,473	Mar. 29	3294	745	82	1926
Fence. Iron.....	C. E. Guillaume.....	596,773	Jan. 4	565	130	82	108
Fence joint. Wire.....	J. Harris.....	615,651	Dec. 6	802	186	85	1571
Fence lock. Wire.....	L. W. Greene.....	611,362	Sept. 27	2239	517	84	1924
Fence-machine.....	M. Gleason.....	601,414	Mar. 29	3199	722	82	1908
Fence-machine.....	A. L. Kitselman.....	606,420	June 28	2593	598	83	1903
Fence-machine.....	W. F. Seargeant.....	611,800	Oct. 4	356	86	85	71
Fence-machine.....	J. H. Walker.....	610,006	Aug. 30	3395	787	84	1375



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Fence-machine attachment. Wire-----	E. F. Shellabarger-----	599,976	Mar. 1	553	127	82	1317
Fence-machine clamp-----	E. C. Mathews-----	604,999	May 31	3206	128	83	1306
Fence-machine cutting and holding attachment-----	E. C. Mathews-----	613,700	Nov. 8	839	192	85	797
Fence machine. Slat-and-wire-----	W. F. Seargeant-----	611,944	Oct. 4	607	148	85	119
Fence machine. Wire-----	J. W. Allen-----	597,931	Jan. 25	2534	149	82	541
Fence machine. Wire-----	R. Carter-----	606,120	June 21	2006	592	83	1770
Fence machine. Wire-----	H. L. Davis-----	609,535	Aug. 23	2548	460	84	1197
Fence machine. Wire-----	J. Dewitt and L. C. Jolly-----	610,126	Aug. 30	3586	596	84	1415
Fence machine. Wire-----	W. A. Kilmer-----	616,115	Dec. 20	1650	831	85	1764
Fence machine. Wire-----	P. M. Mishler-----	615,870	Dec. 13	1170	385	85	1654
Fence machine. Wire-----	O. A. Morrow-----	603,917	May 10	1227	386	83	855
Fence machine. Wire-----	C. F. Newkirk-----	609,456	Aug. 23	2407	278	84	1171
Fence machine. Wire-----	O. N. Owens-----	610,514	Sept. 6	701	279	84	1573
Fence machine. Wire-----	G. B. St. John-----	597,442	Jan. 18	1714	564	82	366
Fence machine. Wire-----	J. A. Watson-----	601,187	Mar. 22	2768	701	82	1798
Fence machine. Wire-----	W. E. Williams-----	610,216	Sept. 6	114	635	84	1462
Fence machine. Wire-and-picket-----	H. W. Jackson-----	598,785	Feb. 8	1221	26	82	851
Fence-making device-----	M. Mogenson-----	601,041	Mar. 22	2527	27	82	1752
Fence-making machine-----	A. E. Roberts-----	604,905	May 31	3066	28	83	1278
Fence-making machine-----	A. E. Roberts-----	604,906	May 31	3068	296	83	1279
Fence-making tool-----	D. J. Jones-----	606,821	July 5	846	705	84	69
Fence picket-forming machine. Wire-----	W. A. Kilmer-----	616,116	Dec. 20	1655	74	85	1765
Fence. Portable-----	W. J. Brock-----	603,938	May 10	1262	387	83	862
Fence. Portable-----	A. H. Cook-----	612,824	Oct. 25	2204	287	85	466
Fence. Portable-----	J. A. Young and E. R. Cable-----	615,943	Dec. 13	1322	523	85	1682
Fence. Portable wire-----	E. Brisbin-----	600,401	Mar. 8	1416	308	82	1509
Fence. Portable wire-----	J. W. Le Gore-----	616,544	Dec. 27	2485	324	85	1950
Fence. Portable wire-----	J. W. Le Gore-----	616,545	Dec. 27	2486	575	85	1950
Fence-post-----	W. Bowman-----	603,166	Apr. 26	2726	575	83	563
Fence-post-----	W. P. Carr-----	608,753	Aug. 9	1042	619	84	879
Fence-post-----	H. L. Curry-----	600,636	Mar. 15	1844	239	82	1610
Fence-post-----	G. A. Dieckmann-----	604,458	May 24	2273	422	83	1110
Fence-post-----	C. W. Fenton-----	600,577	Mar. 15	1759	510	82	1593
Fence-post-----	W. H. Frame-----	602,740	Apr. 19	1990	401	83	407
Fence-post-----	J. C. Frost-----	610,042	Aug. 30	3456	451	84	1387
Fence-post-----	C. Gros and J. F. Thomas-----	602,744	Apr. 19	1996	800	83	408
Fence-post-----	S. C. Horn-----	608,288	Aug. 2	208	452	84	696
Fence-post-----	L. E. Ketchum-----	606,558	June 28	2834	49	83	1951
Fence-post-----	W. H. Kimball-----	602,807	Apr. 19	2110	653	83	429
Fence-post-----	E. C. Mathews-----	609,205	Aug. 16	1931	476	84	1057
Fence-post-----	L. Matthews-----	607,258	July 12	1174	459	84	242
Fence-post-----	D. S. McMullen-----	612,052	Oct. 11	825	251	85	171
Fence-post-----	W. F. Milligan-----	609,829	Aug. 30	3079	202	84	1313
Fence-post-----	P. M. Mishler-----	601,448	Mar. 29	3257	718	82	1919
Fence-post-----	E. E. Murry-----	598,713	Feb. 8	1115	736	82	831
Fence-post-----	W. M. Myers-----	609,454	Aug. 23	2403	268	84	1170
Fence-post-----	C. C. Nearn-----	600,372	Mar. 8	1370	564	82	1500
Fence-post-----	A. J. Ogram-----	598,434	Feb. 1	633	313	82	723
Fence-post-----	R. Oliver-----	598,003	Jan. 25	2671	156	82	568
Fence-post-----	J. H. Pierson-----	603,454	May 3	369	623	83	672
Fence-post-----	J. Y. Propst-----	615,304	Dec. 6	146	83	85	1441
Fence-post-----	R. B. Robbins-----	615,316	Nov. 1	169	39	85	649
Fence-post-----	J. W. Rocknull-----	613,478	Nov. 1	495	111	85	709
Fence-post-----	A. Snell-----	615,583	Dec. 6	680	157	85	1545
Fence-post-----	J. H. Sparks-----	605,355	June 7	572	126	83	1461
Fence-post-----	R. R. Spooore-----	599,303	Feb. 15	2096	496	82	1033
Fence-post-----	W. E. Williams-----	607,314	July 12	1275	272	84	263
Fence-post anchor-----	H. G. Thomson-----	616,038	Dec. 13	1493	349	85	1717
Fence-post and brace therefor. Combined-----	F. L. Webb-----	614,151	Nov. 15	1624	373	85	970
Fence-post detachable tip-----	M. Blanchard-----	614,436	Nov. 22	2168	498	85	1086
Fence post-winder. Wire-----	L. Matthews-----	606,873	July 5	442	95	84	87
Fence repair-tool. Wire-----	J. H. Major-----	614,563	Nov. 22	2381	544	85	1124
Fence spacer-bar. Wire-----	G. H. Miller-----	603,772	May 10	956	214	83	802
Fence spacer. Wire-----	C. Baxter-----	606,182	June 28	2122	487	83	1809
Fence spacer. Wire-----	E. M. Crouch-----	614,163	Nov. 15	1643	377	85	973
Fence spacer. Wire-----	G. E. Sheldon-----	609,523	Aug. 23	2526	591	84	1193
Fence-stay-----	L. S. Mohler-----	604,065	May 17	1537	346	83	948
Fence-stay-----	C. R. Morrow-----	603,961	May 10	1295	295	83	868
Fence-stay-----	W. E. Royer-----	601,682	Apr. 5	106	21	83	23
Fence-stay and fastener-----	N. B. Leslie-----	611,639	Oct. 4	86	21	85	19
Fence-stay and lock. Wire-----	H. Kees-----	611,913	Oct. 4	554	135	85	110
Fence-stay-weaving device-----	C. Baxter and A. Schrader-----	606,266	June 28	2303	533	83	1847
Fence stay. Wire-----	W. C. Barrick-----	602,819	Apr. 26	2143	486	83	451
Fence stay. Wire-----	E. W. Cornell-----	615,965	Dec. 13	1359	318	85	1690
Fence stay. Wire-----	A. J. Munger-----	615,401	Dec. 6	353	84	85	1481
Fence stay. Wire-----	M. Neil and F. H. Bissell-----	601,671	Apr. 5	83	17	83	17
Fence. Stay-wire-----	C. E. Robinson-----	611,648	Oct. 4	101	25	85	22
Fence-stay-wire lock-----	C. E. Wintrade-----	603,804	May 10	1015	227	83	815
Fence-stay-wire-making machine-----	E. B. Wilux-----	598,170	Feb. 1	162	39	82	634
Fence stays. Machine for crimping wire-----	C. K. Wolf-----	604,647	May 24	2612	597	83	1173
Fence stays. Machine for making-----	E. W. Cornell-----	613,358	Nov. 1	252	56	85	666
Fence stays. Tool for attaching wire-----	R. B. Robbins-----	599,196	Feb. 15	1912	453	82	998
Fence strands. Implement for stretching wire-----	W. Neeb-----	606,070	June 21	1914	440	83	1751
Fence stretcher. Wire-----	E. C. Lott-----	598,526	Feb. 8	789	189	82	769
Fence stretcher. Wire-----	J. M. Trull-----	611,660	Oct. 4	117	29	85	26
Fence tightener. Wire-----	S. C. Bowen-----	606,505	June 23	2724	628	83	1929
Fence tightener. Wire-----	J. S. Gilliland-----	596,748	Jan. 4	521	119	82	101



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Fence-tightening tool. Wire-	L. J. Gilmour	604,746	May 31	2800	640	83	1227
Fence tool. Wire-	J. A. Beamisderfer	602,932	Apr. 26	2340	534	83	490
Fence tool. Wire-	A. and C. A. Church	598,907	Feb. 15	1424	342 343	82	906
Fence tool. Wire-	H. W. Denison	604,972	May 31	3164	728	83	1298
Fence. Transportable.	A. Mauser	615,728	Dec. 13	936	217	85	1609
Fence twister. Wire-	J. A. Shutz	598,162	Feb. 1	150	35	82	631
Fence-weaving device.	C. F. Farrar	596,864	Jan. 4	718	167	82	140
Fence-weaving machine	J. H. Cundiff	614,701	Nov. 22	2644	602	85	1172
Fence-weaving machine. Wire-	M. L. Poulter	601,167	Mar. 22	2729	628	82	1791
Fence-weaving machine. Wire-	W. H. Warner	604,099	May 17	1601	360	83	961
Fence. Wire	D. W. Bromley	603,168	Apr. 26	2728	620	83	563
Fence. Wire	P. F. Clarkin	605,595	June 14	975	225	83	1560
Fence. Wire	F. A. Curtis	615,260	Dec. 6	72	20	85	1427
Fence. Wire	T. B. and C. T. Custer	610,896	Sept. 20	1362	312	84	1739
Fence. Wire	C. L. Etheridge	600,639	Mar. 15	1849	423	82	1611
Fence. Wire	J. F. Haffey	602,444	Apr. 19	1481	338	83	311
Fence. Wire	G. Helmers and W. Fesser	612,846	Oct. 25	2257	539	85	475
Fence. Wire	F. H. Hopler	598,226	Feb. 1	275	61	82	655
Fence. Wire	R. Kennedy	615,855	Dec. 13	1150	268	85	1650
Fence. Wire	C. M. Lamb	596,711	Jan. 4	455	103	82	88
Fence. Wire	C. M. Lamb	598,265	Feb. 1	342	79	82	666
Fence. Wire	L. Matthews	606,872	July 5	441	94	84	87
Fence. Wire	M. Neil and F. H. Bissell	601,272	Mar. 29	2956	668 669	82	1863
Fence. Wire	M. Neil and F. H. Bissell	602,867	Apr. 26	2211	501	83	465
Fence. Wire	J. R. Peck	609,945	Aug. 30	3274	764	84	1352
Fence. Wire	M. D. Pendergast	596,538	Jan. 4	135	30, 31	82	28
Fence. Wire	A. B. Probasco	606,737	July 5	178	40	84	36
Fence. Wire	R. B. Robbins	613,078	Oct. 25	2631	622	85	550
Fence. Wire	P. J. Schild	601,986	Apr. 5	695	148	83	131
Fence. Wire	R. L. F. Strathy	599,024	Feb. 15	1640	388	82	948
Fence. Wire	J. Truax	611,659	Oct. 4	116	29	85	25
Fence. Wire	C. E. Warner	607,203	July 12	1059	229	84	221
Fence. Wire	C. E. Warner	607,204	July 12	1061	230	84	221
Fence. Wire	C. E. Wintrobe	601,540	Mar. 29	3408	773	82	1951
Fence-wire-reel cart	F. Gempeler	613,138	Oct. 25	2719	642 643	85	568
Fence-wire stretcher	J. H. Allen	600,242	Mar. 8	1158	264	82	1461
Fence-wire stretcher	V. M. Evans	598,413	Feb. 1	601	148	82	717
Fence-wire truck	W. Nelson	610,494	Sept. 6	667	149	84	1567
Fence-wire-twisting machine	A. W. McFarland	614,970	Nov. 29	3154	725	85	1290
Fence-wire winder	C. E. Cummins	598,133	Feb. 1	109	26	82	620
Fence. Woven stay wire	C. E. Robinson	596,544	Jan. 4	145	33	82	33
Fence. Woven-wire	R. H. Bloomer	615,671	Dec. 13	839	194	85	1590
Fences. Adjustable stay for wire	W. H. Rice	610,083	Aug. 30	3519	815	84	1400
Fences. Device for applying stay-wires to wire	H. Withey	601,864	Apr. 5	475	96	83	89
Fences. End post for line-wire	O. Harley	600,964	Mar. 22	2396	547	82	1728
Fences. Machine for applying vertical stay-wires in wire	E. B. Willix	600,569	Mar. 15	1743	397 398	82	1590
Fences. Machine for weaving cross-wires in	J. B. Eagleston	607,230	July 12	1124	240	84	233
Fences. Machine for weaving stay-wires on wire	P. J. Wieland	616,514	Dec. 27	2434	563	85	1940
Fences, &c. Machine for weaving wire	A. Cochrane	612,400	Oct. 18	1425	344 345	85	298
Fences. Metal fabric for wire	J. R. Jones	604,398	May 24	2155	484	83	1088
Fences. Tool for applying wire stay-locks in	D. C. Addicks	598,132	Feb. 1	100	23	82	621
Fencing. Apparatus for applying stay-wires to wire	S. G. and W. J. Mooney	610,819	Sept. 13	1225	282	84	1696
Fencing. Machine for making wire	J. W. Griswold and A. G. Goldthwait	604,041	May 17	1482	332 333 334	83	733
Fencing. Machine for making wire	P., J., and P. W. Sommer. (Reissue)	11,658	Mar. 29	3531	805 806 29	82	1974
Fencing. Machine for making woven-wire	W. E. Williams	610,217	Sept. 6	129	30 31	84	1466
Fencing tool. Wire-	J. R. Smith	605,352	June 7	569	126	83	1461
Fencing. Wire	R. H. Bloomer	611,673	Oct. 4	144	35	85	31
Fencing. Woven-wire	A. L. Kitselman	606,421	June 28	2597	598	83	1904
Fender:							
See Car-fender.	Plow-fender.						
Car safety-fender.	Stirrup-fender.						
Fireplace-fender.	Stove-fender.						
Hay-rake fender.	Vehicle-fender.						
Fermenting squares and vats. Construction of	W. Cutler	599,599	Feb. 22	2687	628	82	1170
Ferrocyanids. Process of and apparatus for making	P. Danckwardt	607,507	July 19	1806	376	84	389
Fertilizer-distributor	J. W. Covington	613,498	Nov. 1	519	117	85	714
Fertilizer-distributor	W. T. Johnstone	600,079	Mar. 1	823	189	82	1375
Fertilizer-distributor	L. H. Kromm	609,440	Aug. 23	2367	558	84	1164
Fertilizer-distributor	J. M. Lindsey	608,055	July 26	2537	605	84	605
Fertilizer-distributor	W. A. McWhorter	613,591	Nov. 1	666	153 154	85	742
Fertilizer-distributor	E. B. Rainey	611,184	Sept. 20	1872	432	84	1837
Fertilizer-distributor and cultivator. Combined	W. H. Willimon	613,101	Oct. 25	2667	630	85	557
Fertilizers. Apparatus for making	E. Clarenbach	603,942	May 10	1267	288	83	862
Fertilizers. Making	H. Duden	609,797	Aug. 30	3016		84	1300
Fertilizers. Making	W. E. Rowlands	602,363	Apr. 12	1338		83	269
Festoon apparatus	J. A. Groebli	609,429	Aug. 23	2351	554	84	1161
Fiber-treating machine	J. Choquette	607,832	July 26	2413	512	84	522
Fiber vessel	A. Stark	609,525	Aug. 23	2529	592	84	1194
Fibrous material	J. A. Maquaire	606,067	June 21	1907	439	83	1750
Fibrous material from peat. Producing	K. A. Zschörner	610,957	Sept. 20	1462		84	1758
Fibrous materials. Feeding apparatus for machinery for preparing	J. Good	608,981	Aug. 9	1493	353 354	84	962
Fibrous materials. Machine for opening and working	A. A. Coburn	598,284	Feb. 1	385	89, 90	82	675
Fibrous or absorbent surfaces. Finishing	B. B. Goldsmith	615,446	Dec. 6	429		85	1495
Field or opera glass. Prismatic binocular	J. H. Barton	615,229	Nov. 29	3673	842	85	1389



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Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fifth-wheel	I. Cornwell	610,643	Sept. 13	916	210	84	1634
Fifth-wheel	J. J. Crall	600,305	Mar. 8	1264	288	82	1480
Fifth-wheel	J. Edgar	610,173	Sept. 6	37	8, 9	84	1448
Fifth-wheel	M. Halfpenny	606,864	July 5	431	92	84	85
Fifth-wheel	E. H. Hungerford	615,391	Dec. 6	330	77	85	1477
Fifth-wheel	H. C. McHenry	613,215	Oct. 25	2870	677	85	597
Fifth-wheel	C. Nielson	609,697	Aug. 23	2855	668	84	1256
Fifth-wheel	C. R. Turner	596,640	Jan. 4	322	70	82	63
Fifth-wheel	D. Wilcox	603,070	Apr. 26	2566	582	83	531
Fifth-wheel antirattling device	H. C. Swan	598,397	Feb. 1	552	135	82	707
Fifth-wheel. Vehicle	M. L. Senderling	614,629	Nov. 22	2518	574	85	1148
Filaments for electric lighting. Making	D. C. Voss	599,306	Feb. 15	2102		82	1034
File and binder	A. A. Hunziker	605,717	June 14	1204	278	83	1602
File and locking mechanism. Card-indexing	H. Hamilton	606,286	June 28	2334	540 541	83	1853
File. Bill	P. H. Holmes	608,122	July 26	2989	630	84	626
File-case	F. E. Clark	601,746	Apr. 5	243	48	83	47
File-cutting machine	A. Weed	600,817	Mar. 15	2149	491	82	1667
File-cutting machine	J. C. Zenses	600,570	Mar. 15	1746	398	82	1591
File. Document	R. C. Derby	598,365	Feb. 1	511	123	82	698
File for letters, bills, &c	W. H. Stewart, Jr	611,716	Oct. 4	224	55	85	46
File for locomotive-engineers. Order	A. McKanna	607,946	July 26	2629	559	84	562
File for loose sheets, papers, &c	B. Abt	611,443	Sept. 27	2397	550	84	1952
File. Letter	C. C. Boykin	606,508	June 28	2728	629	83	1930
File. Letter	H. P. Lavender	605,492	June 14	801	184 185	83	1527
File. Letter	A. Tengvall	615,115	Nov. 29	3429	787	85	1339
File. Letter or bill	S. Drummond	602,838	Apr. 26	2169	492	83	456
File. Newspaper	W. L. Lambkin	612,113	Oct. 11	929	225	85	192
File. Paper or bill	A. A. Reaser	616,490	Dec. 27	2388	553	85	1932
File. Prescription	A. H. Cook, Jr	604,108	May 17	1621	364	83	965
Filing-case	C. O. Hiscock	604,986	May 31	3187	734	83	1302
Fillet	C. H. and A. T. Oakley	607,127	July 12	926	201	84	198
Film and making same. Multiple-coated carbon	C. Gitchell	611,409	Sept. 27	2335		84	1943
Films. Method of and apparatus for producing	J. Wheeler	611,047	Sept. 20	1619	370 371	84	1788
Filter	H. Bleakly and F. L. Vessierat	607,155	July 12	979	211 212	84	206
Filter	J. A. Bowden	601,392	Mar. 29	3161	714	82	1900
Filter	J. D. Bowne	602,720	Apr. 19	1958	445	83	401
Filter	C. E. Chamberland	602,304	Apr. 12	1243	273	83	250
Filter	J. A. Chandler	609,754	Aug. 23	2938	687	84	1271
Filter	J. E. Cullison	616,224	Dec. 20	1878	433	85	1811
Filter	P. Dame and H. Pottevin	612,832	Oct. 25	2235	535	85	471
Filter	J. H. Eckart	603,323	May 3	139	32	83	628
Filter	S. D. Eisendrath	604,931	May 31	3107	714	83	1287
Filter	F. Fischer	610,527	Sept. 13	723	164	84	1594
Filter	W. M. Fowler	608,663	Aug. 9	895	204	84	852
Filter	A. J. Harder	604,984	May 31	3184	733	83	1302
Filter	W. A. Hull	606,218	June 28	2205	506	83	1826
Filter	J. P. Islev-Petersen	608,127	July 26	2945	631 632	84	627
Filter	O. H. Jewell. (Reissue)	11,672	June 28	2972	690	83	1977
Filter	O. H. and W. M. Jewell	612,421	Oct. 18	1466	354	85	306
Filter	L. Johnston	605,046	May 31	3293	756	83	1322
Filter	G. Katzenstein	611,488	Sept. 27	2481	572	84	1969
Filter	I. Kohn	614,558	Nov. 22	2370	542	85	1122
Filter	H. R. Kuersten	605,883	June 21	1550	356	83	1685
Filter	W. B. Lindsay and W. E. Tonner	614,480	Nov. 22	2253	516	85	1102
Filter	C. H. Loew	605,110	June 7	71	20, 21	83	1366
Filter	M. J. Lynn	598,468	Feb. 1	681	166	82	731
Filter	W. A. Maddin	609,942	Aug. 30	3266	763	84	1349
Filter	J. A. Maignen	615,399	Dec. 6	349	83	85	1480
Filter	A. L. McLane	613,170	Oct. 25	2769	652	85	578
Filter	H. G. McLean	607,570	July 19	1922	398	84	409
Filter	J. W. McLean	598,254	Feb. 1	321	73, 74	82	662
Filter	J. S. Miles	614,209	Nov. 15	1726	396	85	990
Filter	D. B. Morrison	605,500	June 14	812	188	83	1529
Filter	D. P. O'Hanlon	614,619	Nov. 22	2494	570	85	1144
Filter	H. A. Pooler	598,391	Feb. 1	544	133	82	706
Filter	C. H. Rhoad	597,248	Jan. 11	1369	320	82	281
Filter	H. G. Rich, J. A. Chandler, and W. H. Dunshee	614,578	Nov. 22	2411	551	85	1130
Filter	C. B. Roads	600,451	Mar. 8	1504	344	82	1524
Filter	C. V. Roberts	600,651	Mar. 15	1866	426	82	1614
Filter	R. J. Robertson	598,115	Feb. 1	75	17	82	617
Filter	C. Sellenscheidt	612,916	Oct. 25	2370	565	85	496
Filter	J. H. Sieber	614,351	Nov. 15	2007	463	85	1042
Filter	H. Smith, Jr	613,048	Oct. 25	2573	611	85	539
Filter	A. N. Sprague	603,834	May 10	1089	241	83	826
Filter	J. Totham	598,719	Feb. 8	1124	271	82	832
Filter	W. H. Wilcox	598,190	Feb. 1	207	48	82	641
Filter	W. H. Wilcox	598,191	Feb. 1	208	48, 49	82	642
Filter	E. A. Wilder	600,939	Mar. 22	2360	535 536	82	1721
Filter	A. C. Willats	604,950	May 31	3133	720	83	1292
Filter	J. Wilson	606,260	June 28	2291	530 531	83	1844
Filter	W. W. Wilson	604,573	May 24	2493	567	83	1149
Filter	J. F. Wireback	601,785	Apr. 5	315	62	83	60
Filter	J. F. Ziegler	599,757	Mar. 1	149	35	82	1244
Filter. Air-pressure	J. H. Pierce and E. A. Thayer	607,523	July 19	1831	382	84	394
Filter and cooler. Combined	J. Armstrong and W. Heywood	607,673	July 19	2110	440 441	84	444
Filter and cooler. Combined	E. M. Knight	607,513	July 19	1815	377 378	84	391



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Filter and cooler. Combined	W. G. Wuichet	615,941	Dec. 13	1319	307	85	1681
Filter and making same. Germ-proof	J. A. Wesener	599,030	Feb. 15	1649	308	82	951
Filter. Centrifugal	H. Chapman	610,983	Sept. 20	1518	348	84	1768
Filter. Centrifugal	J. A. Lombas	601,973	Apr. 5	679	144	83	128
Filter. Domestic or other	W. H. Barr	609,769	Aug. 30	2961	692	84	1290
Filter for feed-water for steam-generators	D. A. Quiggin	611,507	Sept. 27	2511	580	84	1976
Filter for malt beverages	W. E. Feroe	608,034	July 26	2810	597	84	599
Filter-frame	R. Aymer and D. J. Nevill	610,596	Sept. 13	846	194	84	1619
Filter-frame	K. Proks	607,952	July 26	2641	561	84	564
Filter. Gasolene	C. S. White	604,450	May 24	1056	507	83	1107
Filter. Oil	C. Dorn	603,587	May 3	625	139	83	723
Filter. Oil	A. H. Franke	603,327	May 3	145	31	83	630
Filter. Oil	J. B. Raab	604,568	May 24	2485	565	83	1148
Filter plate or sheet. Tubularly-strapped	K. Proks	607,953	July 26	2642	561	84	564
Filter-press	P. R. Gray, Jr	596,995	Jan. 11	946	224	82	200
Filter-press	E. E. Hendrick	601,833	Apr. 5	395	83	83	74
Filter-press	E. E. Hendrick	612,105	Oct. 11	915	223	85	190
Filter-press	J. H. Hinken	607,929	July 26	2603	552	84	557
Filter. Rain-water	W. M. and L. Tice	602,488	Apr. 19	1550	353	83	325
Filter. Sewage	T. Hülssner and P. Röhrig	612,904	Oct. 25	2355	561	85	493
Filter. Siphon carbon faucet	P. Stone	616,031	Dec. 13	1482	346	85	1715
Filter. Water	E. F. Bell	612,151	Oct. 11	991	241	85	230
Filter. Water	D. J. Bliss and E. J. Richmond	611,426	Sept. 27	2370	544	84	1948
Filter. Water	F. Buck and T. Huss	602,823	Apr. 26	2149	487	83	453
Filter. Water	W. M. Deichler	613,194	Oct. 25	2806	662	85	586
Filter. Water	O. Eastman	606,804	July 5	323	67	84	65
Filter. Water	C. F. Hitchcock	604,615	May 24	2558	584	83	1163
Filter. Water	H. Millstine	599,971	Mar. 1	545	125	82	1316
Filter. Water	G. Schussler	603,708	May 10	845	187	83	781
Filter. Water	H. Snell	606,592	June 28	2892	669	83	1962
Filter. Water	E. Tyden	602,883	Apr. 26	2234	506	83	469
Filter. Waterworks	R. Kurka	597,680	Jan. 18	2106	493	82	442
Filters. Decanting apparatus for	G. Katzenstein	611,489	Sept. 27	2483	572	84	1969
Filtering and pressing garbage. Process of and apparatus for continuously	C. Edgerton	603,945	May 10	1271	289	83	863
Filtering and separating oil from water. Apparatus for	E. K. Meredith	599,720	Mar. 1	74	17	82	1230
Filtering apparatus	R. Douglas	608,655	Aug. 9	878	202	84	848
Filtering apparatus	G. G. Fryer	606,453	June 28	2647	609	83	1914
Filtering apparatus	C. Palmer and H. G. Brownell	599,009	Feb. 15	1603	380	82	941
Filtering apparatus	E. L. Powell	612,976	Oct. 25	2464	588	85	517
Filtering apparatus	C. Prevot	598,007	Jan. 25	2678	624	82	569
Filtering apparatus	S. Twitchell	605,152	June 7	173	43	83	1384
Filtering apparatus. Water	J. W. Ledoux	599,103	Feb. 15	1758	418	82	972
Filtering beer, wine, &c. Apparatus for	C. Hoff	601,300	Mar. 29	3004	678	82	1872
Filtering device	H. J. Murney	598,383	Feb. 1	532	130	82	703
Filtering device	C. H. Rhoad	597,222	Jan. 11	1330	310	82	274
Filtering device	W. Shreeve	616,364	Dec. 20	2138	498	85	1863
Filtering material and making same	F. Jurschina	597,678	Jan. 18	2103	492	82	442
Filtering medium and making same	E. M. Knight	596,518	Jan. 4	103	23	82	22
Filtering or purifying and aerating water. Apparatus for	J. A. Wiedersheim	605,985	June 21	1754	402	83	1722
Filtering plant for waterworks	T. C. Hefel	603,483	May 3	437	97, 98	83	685
Filtering plant for waterworks	T. C. Hefel	611,317	Sept. 27	2148	496	84	1908
Filtering-plates. Apparatus for manufacturing	L. A. Enzinger	605,706	June 14	1189	274	83	1599
Filtration. Purifying condensation-water from oil by	G. Olberg	602,098	Apr. 12	881	191	83	179
Filtration. System of	D. A. Langdon and C. H. Brown	611,691	Oct. 4	174	42	85	37
Filtration under pressure. Apparatus for	P. R. Gray, Jr	596,994	Jan. 11	942	223	82	200
Finger-dilator	R. A. Lucchesi	602,191	Apr. 12	1055	231	83	212
Finger-gage for rings	A. Johnson	603,957	May 10	1291	294	83	867
Finger-ring exhibitor	M. Adams	608,946	Aug. 9	1433	337	84	950
Finger-ring gage	M. R. de Silva	610,097	Aug. 30	3537	820	84	1404
Finger-ring protector	W. J. Carroll and J. E. Seary	613,243	Nov. 1	34	8	85	623
Finger-rings. Die for manufacturing	A. H. Fetting	612,768	Oct. 18	2090	495	85	424
Finishing-machine	C. L. Wiedrich	610,295	Sept. 6	299	64, 65	84	1499
Finishing-roll	J. Hall	599,469	Feb. 22	2450	576	82	1124
Fire-alarm	J. Casavello	614,365	Nov. 15	2028	468	85	1046
Fire-alarm	H. Tersling	609,309	Aug. 16	2144	508	84	1102
Fire-alarm	G. A. Townsend	597,128	Jan. 11	1181	277	82	246
Fire-alarm. Automatic	R. J. Baker	600,765	Mar. 15	2070	474	82	1653
Fire-alarm. Automatic electric	W. E. Frost	603,270	May 3	49	12	83	610
Fire-alarm. Automatic electric	W. A. Guthrie	598,508	Feb. 8	752	181	82	762
Fire-alarm. Automatic electric	H. A. Olsson	605,795	June 14	1358	311	83	1630
Fire-alarm box	J. H. Hayes and C. Fisher	599,654	Feb. 22	2799	651	82	1194
Fire-alarm, circuit, and signal-box. Electric	L. G. Rowand	598,160	Feb. 1	145	34	82	630
Fire-alarm indicator	L. Le Baron	615,723	Dec. 13	926	216	85	1607
Fire-alarm system. Thermostatic auxiliary	A. H. Cross	616,082	Dec. 20	1579	368	85	1750
Fire-alarm systems. Heat-detector for electric	J. D. Gould	601,730	Apr. 5	206	41	83	40
Fire-alarm-telegraph apparatus. Auxiliary	B. Oehmen	616,186	Dec. 20	1703	396	85	1773
Fire and burglar alarm	F. W. Bill	614,494	Nov. 22	2280	522	85	1106
Fire and burglar alarm system	C. P. Bostian	598,410	Feb. 1	596	146	82	716
Fire and weather proof composition	J. Stocker, F. Meissner, and H. Zander	607,292	July 12	1238	397	84	256
Fire. Apparatus for protecting buildings from	H. Cochran	616,078	Dec. 20	1568	366	85	1748



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Firearm attachment	M. Mattson	614,019	Nov. 8	1389	318	85	904
Firearm attachment for bicycles, &c	J. Horner	615,179	Nov. 29	3544	815	85	1363
Firearm. Automatic	G. Roth	616,260	Dec. 20	1946	452 453	85	1824
Firearm. Box-magazine	J. M. Browning	599,595	Feb. 22	2675	626 627	82	1167
Firearm. Box-magazine	T. C. Johnson	597,908	Jan. 25	2499	584	82	534
Firearm. Breech-loading	W. Cashmore	604,488	May 24	2342	531	83	1121
Firearm. Breech-loading	J. D. Coon	603,218	Apr. 26	2804	641	83	578
Firearm. Breech-loading	W. Kurth	600,834	Mar. 15	2180	497	82	1673
Firearm. Breech-loading	R. T. Torkelson	601,820	Apr. 5	374	79	83	70
Firearm. Breech-loading	J. M. Whittemore	607,313	July 12	1270	271	84	262
Firearm cheek-pad	T. D. Rowley	616,424	Dec. 20	2247	524	85	1884
Firearm. Double-barrel single-trigger	H. W. Holland and T. Woodward	608,046	July 26	2824	601	84	602
Firearm indicator	A. W. Savage	611,284	Sept. 27	2094	482	84	1898
Firearm-lock. Removable	J. Deeley and L. B. Taylor	612,313	Oct. 11	1279	309	85	257
Firearm-lock safety device	W. A. Richardson	600,337	Mar. 8	1316	301	82	1490
Firearm-locks. Safety attachment for	O. Rose	611,977	Oct. 4	663	161	85	129
Firearm. Magazine	T. R. R. Ashton	597,935	Jan. 25	2540	593	82	542
Firearm. Magazine	T. G. Bennett and W. Mason	599,587	Feb. 22	2662	623 624	82	1165
Firearm. Magazine	R. Dinsmore	601,708	Apr. 5	162	31, 32	83	33
Firearm. Magazine	J. Harle	601,097	Mar. 22	2613	596 597	82	1769
Firearm. Magazine	W. E. King	604,764	May 31	2829	646 647	83	1232
Firearm. Magazine	W. Mason	614,482	Nov. 22	2256	516 517	85	1102
Firearm. Magazine	S. N. McClean	601,838	Apr. 5	406	85, 86	83	76
Firearm. Magazine	S. N. McClean	601,840	Apr. 5	419	87	83	79
Firearm. Magazine	S. N. McClean	601,843	Apr. 5	434	88, 89	83	81
Firearm. Magazine	S. N. McClean	601,844	Apr. 5	440	89	83	82
Firearm. Magazine	W. H. Ostrander	603,066	Apr. 26	2548	579 580	83	528
Firearm. Magazine	T. Wright	612,085	Oct. 11	880	213	85	183
Firearm-magazine	H. Cramer	610,123	Aug. 30	3580	829	84	1414
Firearm peep-sight	A. Weed	600,104	Mar. 1	876	201	82	1385
Firearm. Recoil-operated	H. W. Gabbett-Fairfax	600,066	Mar. 1	803	184	82	1371
Firearm. Recoil-operated	G. Roth	616,261	Dec. 20	1950	453 454	85	1824
Firearm. Revolving	D. B. Wesson	615,117	Nov. 29	3431	788	85	1340
Firearm safety device	L. T. Houghton	609,233	Aug. 16	2002	475	84	1074
Firearm-sight	S. E. Fischer	606,452	June 28	2646	609	83	1914
Firearm-sight	C. J. Stenman	613,893	Nov. 8	1194	273	85	865
Firearm-sight	E. F. M. Wendelstadt	616,512	Dec. 27	2429	562	85	1940
Firearm trigger mechanism	J. West	613,872	Nov. 8	1161	266	85	858
Firearms. Cylinder-stop for revolving	D. B. and J. H. Wesson	611,826	Oct. 4	412	98	85	82
Firearms. Removably attaching magazines to	C. J. Ehbets	599,835	Mar. 1	306	69	82	1270
Fire-battery	T. A. Ready	599,195	Feb. 15	1911	452	82	997
Fire-box-door opening or closing device	M. J. Griffin and P. W. Hogan	610,443	Sept. 6	564	124	84	1547
Fire-cracker	S. S. Yenovkian	600,190	Mar. 8	1077	243	82	1444
Fire-engine feed-water coupling	F. A. Rothgery	606,739	July 5	182	41	84	37
Fire-escape	W. E. Anderson	603,781	May 10	967	216	83	804
Fire-escape	W. L. Britt and A. B. Enns	611,888	Oct. 4	513	124	85	102
Fire-escape	S. P. Buck and C. L. Meaker	608,419	Aug. 2	456	102	84	746
Fire-escape	S. Catanzano and N. Taccone	603,440	May 3	343	76	83	665
Fire-escape	A. Conaway	607,161	July 12	988	213	84	208
Fire-escape	J. M. Franklin	614,855	Nov. 29	2933	673	85	1244
Fire-escape	D. Friedheim	610,041	Aug. 30	3156	800	84	1387
Fire-escape	F. Hafelfinger	611,734	Oct. 4	256	61	85	52
Fire-escape	J. Hagel	598,370	Feb. 1	517	125	82	700
Fire-escape	H. C. Hansen	613,764	Nov. 8	970	222	85	822
Fire-escape	O. R. Hanskey	616,318	Dec. 20	2048	476	85	1845
Fire-escape	W. Hensel	600,346	Mar. 8	1330	304	82	1493
Fire-escape	M. Koloseus	604,989	May 31	3192	735	83	1303
Fire-escape	J. Lauxmann	599,000	Feb. 15	1591	377 378	82	939
Fire-escape	W. H. Logan	615,998	Dec. 13	1424	332	85	1703
Fire-escape	W. H. Logan	615,999	Dec. 13	1425	333	85	1703
Fire-escape	M. Martiny	601,445	Mar. 29	3254	736	82	1918
Fire-escape	G. H. Petersen	598,110	Feb. 1	70	16	82	616
Fire-escape	C. S. Ramos	610,562	Sept. 13	785	178 179	84	1605
Fire-escape	J. Reidy and J. Naughton	612,673	Oct. 18	1921	455	85	391
Fire-escape	J. Robbins	598,294	Feb. 1	402	95	82	678
Fire-escape	D. Roche	607,083	July 12	853	184	84	184
Fire-escape	H. V. Swyny and J. H. McDonald	607,556	July 19	1897	392	84	405
Fire-escape	F. Underwood	604,096	May 17	1596	359	83	960
Fire-escape	J. N. Uri	598,544	Feb. 8	814	195	82	775
Fire-escape	H. Vieregg	614,043	Nov. 8	1423	326	85	910
Fire-escape	J. B. Wetmore	602,673	Apr. 19	1884	428	83	387
Fire-escape	D. L. Winters	605,686	June 14	1153	267	83	1592
Fire-escape apparatus	W. F. Weber	601,029	Mar. 22	2512	571	82	1749
Fire-escape apparatus. Portable	D. W. Leach and O. Turner	609,281	Aug. 16	2092	496	84	1091
Fire-escape ladder	R. Schapler	610,692	Sept. 13	991	230	84	1649
Fire-escape ladders. Machine for making	M. Shires and J. Q. A. Kennedy	604,797	May 31	2880	658 659	83	1243
Fire-extinguisher	G. W. Almstead	607,562	July 19	1906	394	84	407
Fire-extinguisher	I. Brashears	596,844	Jan. 4	678	157	82	131
Fire-extinguisher	G. W. Coon	605,857	June 21	1503	344	83	1676
Fire-extinguisher	G. C. Hale	598,924	Feb. 15	1455	348	82	912
Fire-extinguisher	G. C. Hale	599,330	Feb. 22	2164	514	82	1069
Fire-extinguisher	S. Joseph	609,584	Aug. 23	2636	617	84	1213
Fire-extinguisher	J. M. Miller	607,591	July 19	1961	407	84	417
Fire-extinguisher	A. M. Ring	610,830	Sept. 13	1242	286	84	1700
Fire-extinguisher	A. C. Rowe	596,622	Jan. 4	290	64	82	58



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fire-extinguisher	A. C. Rowe	596,623	Jan. 4	291	64	82	59
Fire-extinguisher	E. Schaefer	600,804	Mar. 15	2131	487	82	1664
Fire-extinguisher	E. Schaefer	616,362	Dec. 20	2135	497	85	1862
Fire-extinguisher	S. M. Stevens	605,932	June 21	1642	377	83	1702
Fire-extinguisher	A. H. Van Riper	605,083	May 31	3272	752	83	1318
Fire-extinguisher	R. Wensley, Jr.	598,188	Feb. 1	204	48	82	641
Fire-extinguisher	G. F. Woodman	600,212	Mar. 8	1109	253	82	1451
Fire-extinguisher. Automatic	A. G. Anderson and F. Mohn	610,376	Sept. 6	453	99	84	1525
Fire-extinguisher. Automatic	F. Grinnell	600,246	Mar. 8	1166	265	82	1462
Fire-extinguisher. Automatic	W. S. Langford	616,056	Dec. 13	1525	356	85	1723
Fire-extinguisher. Chemical	W. B. Blake and S. Hubbard	611,553	Sept. 27	2600	600	84	1993
Fire-extinguisher. Chemical	J. A. Durham	601,435	Mar. 29	3234	729	82	1914
Fire-extinguisher. Chemical	L. S. Flatau	612,094	Oct. 11	900	218	85	186
Fire-extinguisher. Chemical	C. S. Page	598,955	Feb. 15	1514	361	82	924
Fire-extinguisher. Chemical	J. B. Thomas	598,826	Feb. 8	1279	310	82	862
Fire-extinguisher for passenger-coaches. Automatic	M. M. Williams	610,508	Sept. 6	692	156	84	1572
Fire-extinguisher. Portable	G. H. Downing	607,113	July 12	898	195	84	192
Fire-extinguisher. Portable	C. F. B. Durand	596,861	Jan. 4	710	164	82	139
Fire-extinguisher valve	F. Gray	615,354	Dec. 6	247	58	85	1462
Fire-extinguisher valve. Automatic	G. E. Hibbard	599,099	Feb. 15	1748	415	82	970
Fire-extinguishers. Sprinkler-head for automatic	G. E. Hibbard	608,677	Aug. 9	918	211	84	857
Fire-extinguishing and alarm apparatus. Automatic	H. Eversmann	607,027	July 12	701	152	84	158
Fire-extinguishing and disinfectant-distributing apparatus.	W. M. Thompson and C. Nuhning	604,439	May 24	2237	502	83	1103
Fire-extinguishing composition	J. M. Raymond	600,802	Mar. 15	2128		82	1664
Fire-extinguishing compound	J. Stocker, H. Zander, and W. Döblin.	616,368	Dec. 20	2143		85	1864
Fire-extinguishing sprinkler	J. H. R. Dinsmore	607,988	July 26	2702	577	84	576
Fire-extinguishing sprinkler	J. H. R. Dinsmore	615,262	Dec. 6	74	20, 21	85	1427
Fire-extinguishing systems. Dry-pipe valve for	E. F. Steck	598,684	Feb. 8	1066	257	82	822
Fire-extinguishing systems. Dry-pipe valve for	E. F. Steck	609,474	Aug. 23	2439	571	84	1176
Fire-extinguishing tank	P. Casey, Jr.	597,812	Jan. 25	2345	547	82	505
Fire-harness hanger	M. Harcourt	602,322	Apr. 12	1272	281	83	256
Fire-hose jet-nozzle	M. H. Hart	600,149	Mar. 8	1014	227	82	1432
Fire-hose nozzle	M. H. Hart	597,182	Jan. 11	1264	296	82	262
Fire-hose nozzle	E. D. Kellerman and B. C. Crane	603,144	Apr. 26	2698	612	83	558
Fire-hose washer	J. A. Britton	615,012	Nov. 29	3227	742	85	1303
Fire-hydrant	N. Barry, Jr.	606,500	June 28	2718	626	83	1928
Fire-hydrant	S. R. C. Mathews	607,413	July 12	1456	309	84	297
Fire-hydrant	C. A. Sulzman	603,295	May 3	86	22	83	618
Fire-kindler	S. L. Bligh	611,232	Sept. 27	1987	458	84	1878
Fire-kindler	W. J. Bowles and J. Layton	597,943	Jan. 25	2564	598	82	547
Fire-kindler	C. Phelps	612,631	Oct. 18	1851	438	85	378
Fire-kindler	W. R. E. Tharp	604,438	May 24	2235	502	83	1103
Fire-kindler. Automatic	R. M. Gill	615,216	Nov. 29	3644	837	85	1383
Fire-kindler. Automatic	G. I. Green	610,986	Sept. 20	1521	349	84	1769
Fire-lighter	F. H. Prosser and S. F. Dorr	602,871	Apr. 26	2217	503	83	466
Fireman's apparatus for handling ladders at fires.	C. E. Rice	597,022	Jan. 11	989	233	82	208
Firemen. Mouth and nose guard for	A. T. Praeckel	601,401	Mar. 29	3177	717	82	1904
Fireplace	R. Bowes	602,933	Apr. 26	2341	534	83	490
Fireplace	J. E. May	611,179	Sept. 20	1866	430	84	1835
Fireplace back or lining	J. A. Dickson	608,763	Aug. 9	1060	243	84	883
Fireplace-fender	L. P. Legg	615,861	Dec. 13	1159	270	85	1652
Fireplace-heater	J. H. Heitland	605,713	June 14	1199	276	83	1601
Fireplace-heater	J. B. Oldershaw	610,196	Sept. 6	80	16	84	1456
Fireplace. Portable	G. Weibel	613,745	Nov. 8	941	216	85	816
Fireplace-screen	P. E. Law	609,236	Aug. 16	2008	476	84	1075
Fireplace. Smoke-consuming	F. E. Humphreys	606,667	July 5	57	12	84	13
Fireproof blind or curtain	W. R. Kinnear	602,602	Apr. 19	1744	397	83	360
Fireproof building	E. V. Johnson	614,475	Nov. 22	2245	514	85	1100
Fireproof buildings. Construction of	A. H., H., and G. Van der Vygh	597,039	Jan. 11	1015	239	82	214
Fireproof calcimine	S. Kalamaikowski	603,693	May 10	822		83	777
Fireproof ceiling and floor	W. C. Lewis	610,070	Aug. 30	3497	810	84	1396
Fireproof. Compound for rendering substances	H. Gallinowsky	610,964	Sept. 20	1474	336	84	1761
Fireproof concrete floors. Mold for	H. Foveaux	610,984	Sept. 20	1520	349	84	1769
Fireproof construction	A. De Man	606,988	July 5	611	133	84	121
Fireproof construction	W. Orr	598,481	Feb. 1	699	170	82	735
Fireproof construction for partitions and walls	F. Omeis	610,457	Sept. 6	590	132	84	1552
Fireproof covering for steel beams. Self-supporting	J. M. Gander	598,702	Feb. 8	1095	263	82	827
Fireproof curtain. Rolling	W. R. Kinnear	610,543	Sept. 13	751	171	84	1599
Fireproof door, shutter, &c.	D. H. Ferguson	616,066	Dec. 13	1545	361	85	1727
Fireproof floor	O. W. Norcross	596,534	Jan. 4	128	29	82	27
Fireproof floor and ceiling	C. A. Balph and E. P. S. Wright	598,691	Feb. 8	1076	259	82	824
Fireproof floor and ceiling	H. B. Camp	601,036	Mar. 22	2521	573	82	1751
Fireproof floor and ceiling	P. Kühne	613,158	Oct. 25	2750	648	85	574
Fireproof floor and ceiling	G. Liebau	603,598	May 3	644	144	83	726
Fireproof floor construction	A. De Man	607,224	July 12	1104	237	84	230
Fireproof floors. Construction of	T. L. Banks	608,098	July 26	2904	622	84	618
Fireproof flooring, &c. Construction of	E. L. Pease	614,754	Nov. 22	2736	624	85	1191
Fireproof mask	P. Dallinger	606,379	June 28	2511	583	83	1886
Fireproof partition	E. R. Leonard	609,685	Aug. 23	2838	663	84	1253
Fireproof partition	F. S. Miller	612,594	Oct. 18	1763	417	85	362
Fireproof partition or other wall and ceiling	T. Bailey	603,591	May 3	631	140	83	724
Fireproof partition-wall	P. Kühne	613,159	Oct. 25	2751	648	85	574
Fireproof partitions. Skeleton structure for	P. Kühne	606,348	June 28	2449	567	83	1875
Fireproof plastering-support	A. Kühn	606,387	June 28	2524	585	83	1888
Fireproof structure	A. De Man	609,795	Aug. 30	3013	706	84	1300
Fireproof structure	W. R. Robinson	610,832	Sept. 13	1244	287	84	1700
Fireproof structure	W. R. Robinson	610,833	Sept. 13	1246	287	84	1701
Fireproof wall or partition for buildings	J. T. McCormick	613,462	Nov. 1	446	101	85	701



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Fireproof wall-plates, &c. Composition of matter for	A. H., H., and G. Van der Vygh	597,129	Jan. 11	1182	-----	82	246
Fireproof window	F. Voigtmann	600,186	Mar. 8	1069	242	82	1443
Fireproof window	F. Voigtmann	609,854	Aug. 30	3111	727	84	1320
Fireproofing	R. W. Lyle	614,323	Nov. 15	1964	453	85	1033
Fireproofing	R. W. Lyle	614,329	Nov. 15	1965	454	85	1034
Fireproofing and deafening for frame structures	A. De Man	610,435	Sept. 6	553	122	84	1544
Fireproofing. Composition of matter for	H. Rous	613,941	Nov. 8	1263	-----	85	878
Fireproofing on columns or beams. Supporting	J. A. McKim	613,464	Nov. 1	448	102	85	702
Fire-resisting frame and door	A. De Man	603,442	May 3	345	77	83	666
Fire-resisting wooden stairs	A. De Man	603,130	Apr. 26	2674	606 { 607	83	554
Fire-screen. Folding	J. Huffman	614,867	Nov. 29	2951	678	85	1247
Fire-sprinkler	F. W. Grew	615,270	Dec. 6	91	25	85	1431
Fire to and from rooms. Means of hindering spread of	C. C. Gilman	615,696	Dec. 13	883	204	85	1599
Fire-truck	R. J. Voelker	598,453	Feb. 1	658	162	82	728
Fires. Apparatus for supplying water for extinguishing	A. S. Gear	598,703	Feb. 8	1096	263	82	827
Fires in domestic fire-grates. Appliance for kindling or reviving	J. M. Hollinshead	611,964	Oct. 4	637	155	85	124
Fish alive during transportation. Apparatus for preserving	F. G. Richmond	613,528	Nov. 1	564	128	85	723
Fish-hook	F. Eder	597,142	Jan. 11	1200	281	82	250
Fish-hook	W. F. Evans	614,424	Nov. 15	2147	495	85	1068
Fish-hook	W. Henckler	615,170	Nov. 29	3529	811	85	1360
Fish-hook	C. J. Sly	610,098	Aug. 30	3538	820	84	1405
Fish-hook	J. M. Stadel	608,348	Aug. 2	329	72	84	721
Fish-hook	S. M. Wenger	611,400	Sept. 27	2317	534	84	1939
Fish-hook-holding device	J. H. Snyder	605,758	June 14	1266	292	83	1614
Fish knife and scaler	W. C. Foster	598,463	Feb. 1	676	165	82	731
Fish-net	E. Miller	614,879	Nov. 29	2968	681	85	1251
Fish-net lines. Machine for casting leads on	E. Manula	613,863	Nov. 8	1137	261	85	853
Fish-scaler	J. W. Court	615,432	Dec. 6	403	96	85	1491
Fish-trap	F. L. Albury	605,834	June 21	1451	333	83	1667
Fish upon wires in regular rows. Apparatus for securing	E. Andersen	603,033	Apr. 26	2498	566	83	518
Fishing-bait	W. H. Rockwood	614,411	Nov. 15	2118	487	85	1063
Fishing-float	W. L. Lubbock	615,078	Nov. 29	3369	772	85	1328
Fishing-float	H. H. Mintzer	608,063	July 26	2847	607	84	607
Fishing-reel	G. O. Brosnahan, Jr	615,526	Dec. 6	580	132	85	1524
Fishing-reel	A. W. Hazelrigg	610,604	Sept. 13	855	196	84	1621
Fishing-reel	E. Moore	602,585	Apr. 19	1714	390	83	354
Fishing-reel. Automatic	F. J. Boyle	599,138	Feb. 15	1822	432	82	983
Fishing-rod	J. W. Perkins	610,880	Sept. 13	1330	305	84	1719
Fishing-tackle holder	H. D. Streater	599,370	Feb. 22	2245	532	82	1084
Fishing-tackle swivel	W. Smallwood	612,576	Oct. 18	1738	411	85	357
Flagstaff-holder	J. Finnegan	610,738	Sept. 13	1069	245	84	1664
Flagstaff-holder	T. Miller and F. Davis	612,048	Oct. 11	819	201	85	170
Flash-light apparatus	S. D. Alter and L. T. Young	613,955	Nov. 8	1285	292	85	882
Flash-light apparatus	I. Cohn	610,472	Sept. 6	619	139	84	1557
Flash-light apparatus	A. E. Johnstone	603,332	May 3	155	36	83	632
Flash-light composition	Y. Schwartz	613,021	Oct. 25	2534	603	85	531
Flash-light machine. Aerial	E. C. Brown	605,572	June 14	931	218	83	1552
Flash-light-powder apparatus	A. Hemsley	606,340	June 23	2439	565	83	1873
Flask:							
See Molding-flask.							
Flask	J. C. Korn	599,614	Feb. 22	2718	635	82	1176
Flasks, &c. Top for	C. Webster	613,850	Nov. 8	1115	254	85	849
Flat-iron heater	J. D. Sullivan	610,836	Sept. 13	1249	288	84	1701
Floating bodies. Means for increasing lifting capacity of	W. Alexandroff	607,815	July 26	2378	505	84	515
Flood-gate	J. W. Anderson	607,534	July 19	1851	385	84	398
Flood-gate	D. McCafferty	616,248	Dec. 20	1927	446	85	1820
Floor	W. H. Brown	614,530	Nov. 22	2326	533	85	1114
Floor and ceiling construction	A. Lund	611,366	Sept. 27	2245	518 { 519	84	1926
Floor and ceiling plate	A. H. Muus	613,461	Nov. 1	445	101	85	701
Floor and ceiling plate	L. H. Snyder and W. G. Christian	605,024	May 31	3255	748	83	1315
Floor-beam stirrup	J. A. Butz	598,135	Feb. 1	104	24	82	622
Floor-clamp	E. C. Ingersoll	608,458	Aug. 2	515	116	84	758
Floor. Draining	C. Potter	596,540	Jan. 4	138	31	82	29
Floor-laying machine	J. C. Dukes	608,847	Aug. 9	1252	292	84	917
Floor oiling and rubbing appliance	A. F. Pratt	597,246	Jan. 11	1363	318	82	280
Floor-set	C. W. Leavens	596,602	Jan. 4	257	57	82	51
Floors for buildings. Construction of concrete	W. H. Jenkins	610,139	Aug. 30	3603	837	84	1418
Floors or similar structures. Construction of	E. L. Pease	615,634	Dec. 6	770	178 { 179	85	1564
Flooring and ceiling set combined	S. A. Thompson	610,568	Sept. 13	795	181	84	1607
Flooring. Composition	H. Gallinowsky	615,352	Dec. 6	243	57	85	1461
Flooring-jack	D. Dutt	597,671	Jan. 18	2091	490	82	440
Flooring or ceiling. Composite	J. W. Piver	598,437	Feb. 1	636	156	82	724
Flooring of strengthened concrete. System of	F. Hennebique	611,908	Oct. 4	546	132 { 133	85	109
Flooring or pavement	R. Butcher	612,821	Oct. 25	2197	522	85	465
Florists' designs. Form for	J. F. Hayes	600,313	Mar. 8	1275	291	82	1482
Flour-bin and dough-raiser. Combined	F. H. Acker	612,183	Oct. 11	1044	250 { 251	85	214
Flour-maturer and dough-raiser	D. G. and H. A. Reitz	601,171	Mar. 22	2740	629 { 630	82	1793
Flour-mill roller-feeding device	J. W. Yeager	609,719	Aug. 23	2887	674 { 675	84	1262
Flour-packer	C. A. Lanphere	611,261	Sept. 27	2031	469 { 470	84	1886
Flour. Treating wheat in manufacturing	A. F. Oesterreich	601,777	Apr. 5	295	58, 59	83	56
Flower-bed border	E. F. Johnson	606,151	June 21	2063	473	83	1779



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Flower-carrier .....	C. H. Leedy .....	603,649	May 10	749	166	83	762
Flower-crimping machine. Artificial- .....	L. Ebert .....	605,409	June 7	680	150 151	83	1483
Flower-holder. Rubber .....	M. P. Hayden .....	607,411	July 12	1453	308	84	296
Flower-jar .....	S. D. Engle .....	599,996	Mar. 1	581	134	82	1323
Flower or other stand .....	J. R. Gadbury .....	613,986	Nov. 8	1341	305	85	894
Flower-pot .....	A. N. Free .....	608,664	Aug. 9	897	205	84	852
Flower-pot .....	C. Sherman .....	599,263	Feb. 15	2020	479	82	1019
Flower-pot and hanging basket .....	G. A. Freund .....	608,590	Aug. 9	755	174	84	825
Flower-pot cleaner .....	H. Reynolds .....	610,203	Sept. 6	93	20	84	1458
Flower-pot drainer .....	W. F. Springer .....	611,523	Sept. 27	2538	586	84	1981
Flower-pot plant-support .....	P. Dolf .....	597,841	Jan. 25	2393	557	82	515
Flower-stand. Adjustable .....	J. R. Gadbury .....	613,985	Nov. 8	1340	305	85	894
Flower-stand. Floral arch .....	L. M. Newell .....	596,664	Jan. 4	364	80	82	72
Flower-tub. Wooden .....	W. Mechwart and A. Brahm .....	610,156	Aug. 30	3629	844	84	1424
Flowers of the order Nymphæaceæ. Preventing closing of cut .....	G. Harster .....	607,088	July 12	726	84	162	
Flue-cleaner .....	C. H. Carrico .....	607,340	July 12	1324	283	84	274
Flue-cleaner .....	J. Cathriner .....	615,249	Dec. 6	41	9	85	1420
Flue-cleaner. Steam .....	J. T. Thompson .....	604,551	May 24	2452	557	83	1140
Flue-cleaning apparatus .....	W. L. Casaday .....	615,428	Dec. 6	397	95	85	1490
Flue-cutter .....	P. Dixon .....	609,536	Aug. 23	2550	597	84	1197
Flue. Hot-air .....	G. A. Barnes .....	601,542	Mar. 29	3409	773	82	1952
Flue-opening device. Automatic .....	W. Kane .....	609,278	Aug. 16	2089	495	84	1091
Flue or tube expanders. Attachment for .....	J. T. Fuhrmann and E. Nelson .....	612,838	Oct. 25	2244	536 537	85	472
Flue-scraper .....	R. L. Lukens and G. H. Zschech .....	604,058	May 17	1525	343	83	946
Flue-scraper .....	E. D. Weston .....	613,746	Nov. 8	944	216	85	816
Flue scrapers or cleaners. Motor for .....	E. E. Parks .....	609,588	Aug. 23	2543	618	84	1215
Flue-stopper .....	J. M. Padgett .....	605,128	June 7	104	27	83	1371
Flues. Cap for closing stovepipe .....	A. Sahlstrom .....	598,161	Feb. 1	149	35	82	631
Fluid-battery. Invertible .....	P. R. Cunningham and C. H. Howland-Sherman .....	602,616	Apr. 19	1765	403 404	83	364
Fluid-distributing system and apparatus .....	A. Kitson .....	602,223	Apr. 12	1107	243	83	223
Fluid-elevator. Vacuum .....	W. A. F. McCallum .....	612,211	Oct. 11	1090	262	85	222
Fluid-fuel or oil burner .....	I. S. Elkins .....	614,450	Nov. 22	2191	503	85	1090
Fluid-handling apparatus .....	C. Efros .....	598,501	Feb. 8	741	179 180	82	760
Fluid meter and motor .....	J. H. Dixon .....	602,311	Apr. 12	1255	277	83	253
Fluid-meter. Prepayment .....	H. Green .....	606,625	June 28	2951	683 684 685	83	1973
Fluid-meter. Rotary .....	W. H. Marsh .....	597,066	Jan. 11	1068	250	82	224
Fluid-pressure automatic brake .....	G. Westinghouse, Jr .....	609,484	Aug. 23	2469	576	84	1183
Fluid-pressure elevator .....	W. V. Butterfield .....	596,736	Jan. 4	499	114	82	97
Fluid-pressure engine .....	A. H. Crockford .....	615,810	Dec. 13	1078	253	85	1636
Fluid-pressure engine .....	F. W. Lanchester .....	613,769	Nov. 8	978	223 224	85	823
Fluid-pressure motor .....	P. C. N. Pederson .....	596,614	Jan. 4	276	60, 61	82	55
Fluid-pressure motor .....	P. C. N. Pederson .....	609,625	Aug. 23	2731	636	84	1232
Fluid-pressure motor .....	P. C. N. Pederson .....	609,626	Aug. 23	2735	637	84	1232
Fluid-pressure motor .....	P. Schlachter .....	606,304	June 28	2362	546 547	83	1858
Fluid-pressure regulator .....	A. E. Burnett, Jr .....	614,441	Nov. 22	2178	500	85	1088
Fluid-pressure regulator .....	J. H. Champ .....	611,892	Oct. 4	519	126	85	103
Fluid-pressure regulator .....	J. T. Harger .....	598,148	Feb. 1	126	29	82	626
Fluid-pressure regulator .....	G. F. Knox .....	596,601	Jan. 4	255	57	82	50
Fluid-pressure regulator .....	R. Matchett .....	601,878	Apr. 5	498	103	83	93
Fluid-pressure regulator .....	J. W. Weeks .....	597,250	Jan. 11	1372	321	82	282
Fluid-pressure regulator .....	J. Williams and J. R. Rees .....	601,923	Apr. 5	572	119	83	109
Fluid-pressure systems. Means for testing .....	G. S. Hodgins .....	602,009	Apr. 5	730	156	83	138
Fluids. Apparatus for treating .....	J. Whiteley .....	615,329	Dec. 6	186	47	85	1450
Flush joint for tubular-frame constructions .....	F. C. Avery .....	603,244	May 3	2	1	83	601
Flushing apparatus .....	H. Haynes .....	605,712	June 14	1196	276	83	1601
Flushing apparatus .....	P. Liebig .....	610,683	Sept. 13	975	226	84	1646
Flushing apparatus. Seat-action .....	G. D. Ackley .....	598,834	Feb. 8	1293	313	82	865
Flushing-cistern .....	E. H. Parkinson .....	605,972	June 21	1725	396	83	1717
Flushing device .....	W. Scott .....	610,977	Sept. 20	1495	340	84	1764
Flushing-tank .....	E. M. Stirling .....	604,178	May 17	1754	395	83	991
Flushing-valve for closet-tanks .....	E. W. Anthony .....	598,668	Feb. 8	1034	249	82	815
Fly-catcher .....	C. A. Kimbel .....	602,083	Apr. 12	853	185	83	173
Fly-catchers. Apparatus for making .....	O. I. Milne .....	610,192	Sept. 6	75	15	84	1455
Fly-catching device .....	H. Thum .....	601,183	Mar. 22	2763	634	82	1797
Fly-escape .....	V. D. Muzzy .....	598,531	Feb. 8	795	190	82	770
Fly-escape. Window .....	A. J. Collar .....	596,805	Jan. 4	615	142	82	118
Fly-paper. Package of sticky .....	W. Thum .....	610,107	Aug. 30	3549	823	84	1407
Fly-paper. Sticky .....	H. Thum .....	603,981	May 10	1324	303 304	83	874
Fly-paper. Sticky .....	O. Thum .....	610,109	Aug. 30	3551	823	84	1407
Fly-paper. Sticky .....	W. Thum .....	601,184	Mar. 22	2765	634	82	1797
Fly-paper. Sticky .....	W. Thum .....	610,108	Aug. 30	3550	823	84	1407
Fly-paper. Sticky .....	W. and H. Thum .....	612,686	Oct. 18	1943	460	85	396
Fly-paste. Apparatus for covering strings with .....	R. W. C. Strong .....	598,583	Feb. 8	881	211	82	788
Fly-poison dish or plate .....	J. H. Smith .....	601,596	Mar. 29	3489	795	82	1967
Fly-poison plate, &c .....	J. H. Smith .....	601,597	Mar. 29	3491	796	82	1967
Fly-screen .....	S. C. Hart .....	603,595	May 3	638	142	83	725
Fly-screen .....	H. C. Loudermilch .....	615,289	Dec. 6	125	33	85	1437
Fly-screen .....	C. T. Siebert .....	599,641	Feb. 22	2778	646	82	1189
Fly-screen .....	J. G. Zook .....	603,717	May 10	858	191	83	784
Fly-trap .....	T. Clement .....	602,126	Apr. 12	925	202	83	187
Fly-trap .....	W. Engelbrecht .....	601,953	Apr. 5	650	136	83	122
Fly-trap .....	J. C. Nixon .....	603,065	Apr. 26	2547	579	83	528
Fly-trap. Automatic .....	C. C. Grenzbach .....	599,501	Feb. 22	2511	591	82	1136
Fly-wheel .....	K. Chickering .....	607,615	July 19	2004	415	84	425
Flying-machine .....	F. A. Jone .....	605,579	June 14	940	219 220	83	1554



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Flying-machine	J. T. Rice	606,942	July 5	537	118	84	107
Fodder-bundler	H. J. Kester	606,287	June 28	2336	541	83	1853
Fodder-binder and package-carrier	C. H. Marston	614,966	Nov. 29	3149	724	85	1289
Fodder-compressor	J. B. Carter	605,220	June 7	306	70	83	1409
Fodder-cutter	J. Dick	613,668	Nov. 8	784	179	85	786
Fog-horn	G. J. Pieters	614,215	Nov. 15	1739	399 400	85	992
Fog-signal	E. F. Osborne	612,911	Oct. 25	2364	563	85	495
Fog-signal	W. T. Purchase	615,228	Nov. 29	3672	841	85	1389
Foil-removing apparatus	G. A. Mueller	606,154	June 21	2066	475	83	1780
Folding and cutting mechanism	E. P. Sheldon	604,847	May 31	2959	677 678 679	83	1258
Folding and stapling machine	L. C. Crowell	612,830	Oct. 25	2220	528 529 230	85	469
Folding and wrapping machine	L. C. Crowell	616,083	Dec. 20	1582	368 369 370	85	1751
Folding box	M. B. Claff	604,228	May 17	1834	411	83	1006
Folding box	A. O. Hubbard	606,459	June 28	2656	611 612	83	1916
Folding box	C. Ingrey	598,344	Feb. 1	473	113	82	691
Folding box	W. E. Keeler	614,005	Nov. 8	1371	313	85	900
Folding box	J. A. Kingsley	616,848	Dec. 27	3038	706	85	2059
Folding box	H. A. Loverin	597,065	Jan. 11	1067	250	82	224
Folding box	E. E. Pratt	602,588	Apr. 19	1718	391	83	355
Folding box	W. Riley	613,315	Nov. 1	168	38	85	649
Folding case or box	C. W. Good and A. Rufener	600,912	Mar. 22	2314	527	82	1712
Folding chair	E. E. Allen	611,048	Sept. 20	1625	371	84	1789
Folding chair	G. D. Bailly	600,764	Mar. 15	2070	474	82	1653
Folding chair	F. D. O'Keefe	616,346	Dec. 20	2103	490	85	1856
Folding chair	C. C. Tombs	606,103	June 21	1976	454	83	1764
Folding chair and rocker	R. Lund	613,582	Nov. 1	649	150	85	739
Folding lock	E. De Colton	598,656	Feb. 8	1014	245	82	812
Folding-machine	L. C. Crowell	616,290	Dec. 20	1998	464 465	85	1834
Folding-machine	M. J. Locke	611,070	Sept. 20	1657	379 380	84	1795
Folding-machine	F. H. Wendt	615,770	Dec. 13	1015	237	85	1624
Folding or collapsible table	A. B. Shultz	609,592	Aug. 23	2648	619	84	1216
Folding rack	J. H. Sloane	602,481	Apr. 19	1541	350	83	323
Folding seat	A. E. Brockett	615,660	Dec. 6	820	190	85	1574
Folding table	J. Hock and J. E. Losier	600,691	Mar. 15	1951	445	82	1629
Folding table	C. H. Hodgkins	610,269	Sept. 6	228	51	84	1486
Folding table	J. H. Simmons	606,845	July 5	398	84, 85	84	80
Folding table or seat	J. B. Corser	597,604	Jan. 18	1978	460 461	82	420
Food and making same. Cattle-	S. P. Sørensen	609,057	Aug. 16	1662		84	1010
Food and preserving same. Fermented milk	M. L. Arakelian. (Reissue)	11,691	Sept. 13	1333		84	1719
Food. Apparatus for treating or sterilizing canned.	F. W. Smith	604,642	May 24	2603	594 595	83	1171
Food. Cattle-	J. S. Cochran	610,258	Sept. 6	213		84	1483
Food compound and making same	W. Gebhardt	606,624	June 28	2949		83	1973
Food compound and making same	E. Hantke	613,765	Nov. 8	971		85	822
Food compound. Malted	A. Rollheuser	596,945	Jan. 4	854		82	166
Food. Obtaining cattle-	E. Löwi	609,824	Aug. 30	3072	716	84	1312
Food. Preparing liquid	W. Sellman	605,190	June 7	238		83	1396
Food product and making same	A. Bernstein	603,165	Apr. 26	2724		83	563
Food products to form for use. Machine for reduc-	H. D. Perkey	614,338	Nov. 15	1977	456 457	85	1036
ing cereal	H. D. Perkey	598,745	Feb. 8	1162	278	82	840
Food. Roll reducing-machine for preparing	W. R. Dodd	612,561	Oct. 18	1712		85	352
Foods. Preparing infants'	W. Roberts and M. Bevan	598,230	Feb. 1	281	63	82	656
Foot. Artificial	B. Arnold	602,294	Apr. 12	1231	271	83	247
Foot-ball	J. H. Meeteer	599,341	Feb. 22	2,87	520	82	1072
Foot-covering	J. Gallegos	603,135	Apr. 26	2685	609	83	555
Foot-gear. Electrical	F. Purdy	613,717	Nov. 8	877	203	85	803
Foot-power mechanism	N. Petry	614,666	Nov. 22	2583	587	85	1160
Foot-rest	E. J. Smith	603,155	Apr. 26	2711	616	83	560
Foot-rest	I. Kinney	605,552	June 14	890	207	83	1545
Foot scraper and wiper. Combined	R. T. Jones	613,904	Nov. 8	1207	276	85	867
Foot-support	S. J. Adams	600,395	Mar. 8	1407	322	82	1508
Foot-support. Portable	C. S. Clark and H. H. Baltzley	607,160	July 12	987	213	84	207
Foot-warmer	E. L. Doyen	614,708	Nov. 22	2658	606	85	1175
Forceps	C. K. Judd	602,946	Apr. 26	2361	539	83	494
Forging and sharpening rock-drills, &c. Apparatus	H. C. McDonald	599,453	Feb. 22	2416	567 568	82	1118
for	G. H. Hathorn	613,269	Nov. 1	77	18	85	631
Forging articles circular in section. Die for	A. Nobel	599,472	Feb. 22	2454	578	82	1125
Forging hollow shafts, guns, &c. Mechanism for	O. C. Burdick	612,557	Oct. 18	1697	403	85	350
Forging-machine	J. A. Potter	601,082	Mar. 22	2592	591	82	1765
Forging-press	S. H. Ralston	602,196	Apr. 12	1061	232 233	83	213
Forging solid-metal car-wheels. Die for							
Fork:							
See Bicycle lower rear fork.	Hay-fork.						
Double or compound fork.	Hay-press feeding-fork.						
Grubbing-fork.	Laundry-fork.						
Fork	L. Goldfinger	614,651	Nov. 22	2551	581	85	1155
Form. Dress or garment	A. B. Friel	608,327	Aug. 2	292	64, 65	84	713
Form. Sleeve	J. E. W. Smith	612,281	Oct. 11	1222	292	85	247
Forming and drilling machine	W. B. Pearson	613,598	Nov. 1	679	156 157	85	745
Forming-die	W. E. Karns	609,029	Aug. 16	1604	282	84	998







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				Spec.	Dr'g.	Vol.	Page.
Fumigator .....	O. Andreae .....	600,213	Mar. 8	1109	253	82	1451
Fumigator .....	J. T. Comross .....	606,446	June 28	2635	606	83	1912
Funnel .....	H. Altshul .....	615,337	Dec. 6	202	50	85	1452
Funnel .....	P. Anders .....	596,972	Jan. 11	905	213	82	193
Funnel .....	S. A. Hess .....	611,962	Oct. 4	634	154	85	124
Funnel .....	G. B. and J. L. Walker .....	612,510	Oct. 18	1610	384	85	334
Funnel attachment for vessels .....	A. H. Werremeyer, Jr. ....	611,304	Sept. 27	2125	491	84	1904
Funnel. Automatic .....	C. Bonafede .....	610,521	Sept. 13	712	161	84	1592
Funnel. Automatic combination .....	E. D. Middlekauff .....	596,606	Jan. 4	263	162	82	52
Fur-plucking machine .....	D. D. Palmer .....	614,408	Nov. 15	2107	485	85	1060
Furnace:					486		
See Assay-furnace. Hot-water furnace.							
Assayer's furnace. Hydrocarbon-burning							
Blast-furnace. furnace.							
Boiler-furnace. Metallurgical furnace.							
Boiler or other fur- Ore-roasting furnace.							
nace. Ore-treating furnace.							
Coal-furnace. Plumber's furnace.							
Crucible-furnace. Portable furnace.							
Electric furnace. Reverberatory furnace.							
Garbage-furnace. Rotary furnace.							
Garbage-burning Smelting-furnace.							
furnace. Smoke-burning furnace.							
Gas-heated furnace. Smoke-consuming fur-							
nace.							
Glass-melting fur- Tire-furnace.							
nace.							
Gravity-fan furnace. Underfeed furnace.							
Heating-furnace. Warm-air furnace.							
Hot-air furnace.							
Furnace .....	C. J. Allen and F. R. Tibbitts .....	598,835	Feb. 8	1294	313	82	865
					314		
Furnace .....	G. Beesley .....	610,791	Sept. 13	1175	271	84	1686
					272		
Furnace .....	P. Boimare .....	608,826	Aug. 9	1208	282	84	908
					219		
Furnace .....	E. Brook .....	613,755	Nov. 8	956	220	85	819
Furnace .....	D. H. Burns .....	608,105	July 26	2013	623	84	620
Furnace .....	A. Dauber .....	600,516	Mar. 15	1651	376	82	1573
Furnace .....	R. Gaul .....	603,272	May 3	51	13	83	610
Furnace .....	G. D. Hoffman .....	597,284	Jan. 11	1420	333	82	291
Furnace .....	G. D. Hoffman .....	599,965	Mar. 1	535	122	82	1314
Furnace .....	H. E. Jones .....	615,710	Dec. 13	899	209	85	1602
Furnace .....	F. B. McCullough and E. M. Parrott.	602,464	Apr. 19	1515	345	83	317
Furnace .....	J. J. and T. F. Meldrum .....	615,400	Dec. 6	351	84	85	1481
Furnace .....	J. J. and T. F. Meldrum and W. Thomson.	614,569	Nov. 22	2394	547	85	1127
Furnace .....	G. L. K. Morrow .....	602,643	Apr. 19	1820	415	83	374
					416		
Furnace .....	A. Pillatt .....	605,206	June 7	278	64	83	1403
Furnace .....	A. J. Pulver .....	601,983	Apr. 5	692	147	83	131
Furnace .....	F. Robbin .....	609,048	Aug. 16	1647	393	84	1006
Furnace .....	J. S. L. Rodrick .....	610,085	Aug. 30	3522	816	84	1401
					677		
Furnace .....	R. J. Schwab .....	613,216	Oct. 25	2871	678	85	597
					290		
Furnace .....	R. L. Short .....	605,753	June 14	1259	291	83	1612
Furnace .....	J. A. Snyder and G. H. Heitzman, Jr.	616,742	Dec. 27	2857	662	85	2022
Furnace .....	E. E. Starr .....	602,372	Apr. 12	1350	301	83	272
					302		
Furnace .....	W. Stubblebine .....	606,600	June 28	2907	672	83	1964
					673		
Furnace .....	F. E. Swift .....	606,254	June 28	2281	527	83	1842
Furnace .....	C. W. Trotter .....	605,240	June 7	336	78	83	1415
Furnace .....	R. L. Walker .....	610,778	Sept. 13	1149	264	84	1681
Furnace .....	H. E. Wallis .....	608,995	Aug. 9	1522	361	84	968
Furnace .....	G. Watson .....	614,150	Nov. 15	1623	372	85	970
Furnace accessory. Blast-	J. M. Hartman .....	616,101	Dec. 20	1624	380	85	1760
					381		
Furnace air-heater .....	W. Stubblebine .....	609,306	Aug. 16	2138	507	84	1100
					127		
Furnace and liquid-fuel burner .....	O. W. Degen .....	603,556	May 3	577	128	83	712
Furnace-blast apparatus .....	J. A. Farrell and W. Douglas .....	603,181	Apr. 26	2746	625	83	567
Furnace blast-pipe and bridle. Blast-	T. E. Beaghan .....	599,668	Feb. 22	2827	657	82	1199
					591		
Furnace-boiler .....	G. H. Watson .....	614,679	Nov. 22	2607	592	85	1164
Furnace bosh-plate .....	E. Kerr .....	615,456	Dec. 6	447	105	85	1498
Furnace casting apparatus. Blast-	M. Killeen .....	608,143	July 26	2974	638	84	632
					555		
Furnace-charging apparatus. Blast-	F. C. Roberts .....	616,494	Dec. 27	2397	556	85	1933
Furnace-cleaner .....	C. M. McCamey .....	613,590	Nov. 1	665	153	85	742
Furnace connecting-band .....	R. A. May .....	614,120	Nov. 15	1571	359	85	960
Furnace cooling-chamber. Ore-	J. Roger .....	600,293	Mar. 8	1247	284	82	1477
					285		
Furnace cooling-jacket. Blast-	J. W. Nesmith .....	614,971	Nov. 29	3157	725	85	1290
					726		
Furnace-door .....	G. R. Steward .....	604,093	May 17	1592	358	83	959
Furnace-door opener .....	J. G. Antrim .....	611,310	Sept. 27	2138	494	84	1906
Furnace-door. Steam-boiler-	F. L. Horspool .....	605,576	June 14	937	219	83	1554
Furnace-draft. Means for controlling	E. Wilson .....	613,544	Nov. 1	586	135	85	728
Furnace fire-bar. Boiler or other	L. Peellaert .....	615,041	Nov. 29	3296	758	85	1315
Furnace for boilers of locomotive type	T. E. de Sotolongo .....	608,161	July 26	3007	647	84	638
Furnace for forming cast metal	A. L. Carleton .....	598,694	Feb. 8	1081	260	82	825
Furnace for heating billets	E. H. Carroll .....	616,602	Dec. 27	2579	598	85	1966
Furnace for heating billets, blooms, &c.	W. Swindell .....	615,465	Dec. 6	465	109	85	1502



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Furnace for heating buildings.....	F. P. Leonard.....	608,054	July 26	2836	604	84	605
Furnace for heating rivets or for similar uses.....	A. H. and F. J. Lindberg.....	603,470	May 3	405	91	83	679
Furnace for working zinc and lead.....	R. Schneider.....	605,802	June 14	1369	314	83	1632
Furnace-front. Steam-boiler.....	J. Howden.....	608,376	Aug. 2	368	80, 81	84	729
Furnace fuel-feeding mechanism.....	F. Burger and H. M. Williams.....	607,828	July 26	2403	510	84	520
Furnace-grate.....	F. Evans.....	597,079	Jan. 11	1098	260	82	230
Furnace-grate.....	J. Neil.....	616,133	Dec. 20	1699	395	85	1773
Furnace-grate.....	J. Thurell.....	601,601	Mar. 29	3496	797	82	1968
Furnace grate-bar and grate. Boiler or other.....	W. McClave.....	607,263	July 12	1184	253 254	84	244
Furnace iron-notch and appliance. Blast.....	J. M. Hartman.....	603,330	May 3	152	35, 36	83	631
Furnace or heater.....	C. D. Howard.....	616,844	Dec. 27	3028	704	85	2057
Furnace-smoke-consumer attachment.....	W. H. Perley.....	616,727	Dec. 27	2839	657	85	2018
Furnace valve. Regenerative.....	G. W. McClure.....	610,076	Aug. 30	3509	813	84	1398
Furnace-wall cooling device.....	A. P. Gaines.....	614,381	Nov. 15	2059	475	85	1052
Furnace-walls. Means for protecting.....	J. Scott.....	601,759	Apr. 5	264	52	83	51
Furnaces. Device for admitting air to.....	R. Goll.....	604,385	May 24	2136	480	83	1084
Furnaces. Device for preventing smoke in boiler.....	W. R. Mills.....	613,290	Nov. 1	120	28	85	640
Furnaces. Electrical apparatus for charging.....	J. P. Eck.....	605,090	June 7	42	13, 14	83	1361
Furnaces. Feed apparatus for coal-dust.....	A. Wegmann-Hauser.....	601,539	Mar. 29	3406	772 773	82	1951
Furnaces for roasting and drying ores. Means for operating rotary.....	P. Argall.....	612,186	Oct. 11	1049	252	85	215
Furnaces. Hollow arch-supporting standard or buckstay for zinc-smelting.....	R. H. and W. Lanyon.....	616,474	Dec. 27	2353	547	85	1926
Furnaces. Indestructible block for boiler.....	J. Reagan.....	605,797	June 14	1361	312	83	1631
Furnaces. Means for supplying hot air to.....	J. Martin.....	598,798	Feb. 8	1239	300	82	854
Furnaces. Notch-gun for blast.....	J. M. Hartman.....	610,302	Sept. 6	310	67	84	1502
Furnaces. Process of and apparatus for utilizing waste products of blast.....	H. L. Hartenstein.....	596,704	Jan. 4	445	100 101	82	87
Furnaces. Rocking fire-bar for.....	A. Pillatt.....	608,712	Aug. 9	977	225	84	867
Furnaces, &c. Self-dumping machine for blast.....	F. O. Miller.....	615,730	Dec. 13	937	218	85	1609
Furnaces. Utilizing waste products of blast.....	H. L. Hartenstein.....	596,705	Jan. 4	447	101	82	87
Furnaces. Utilizing waste products of blast.....	H. L. Hartenstein.....	596,749	Jan. 4	522	120	82	101
Furniture.....	E. R. Esmond.....	607,657	July 19	2085	435	84	440
Furniture. Adjustable.....	G. A. Bobrick.....	605,306	June 7	476	107	83	1442
Furniture. Adjustable.....	W. Wicke.....	601,862	Apr. 5	473	95, 96	83	88
Furniture. Adjustable school.....	H. B. Hiteshew and W. F. Spieth.....	601,875	Apr. 5	493	101 102	83	92
Furniture-clamp.....	F. A. Ledward.....	615,071	Nov. 29	3358	770	85	1327
Furniture. Combination.....	J. E. Plummer.....	611,144	Sept. 20	1808	416	84	1824
Furniture. Combined article of household.....	C. E. Kuhn.....	597,989	Jan. 25	2647	618 619	82	563
Furniture. Convertible.....	H. G. Schrenkeisen.....	610,089	Aug. 30	3527	817	84	1402
Furniture-joint.....	A. Peterson.....	611,933	Oct. 4	587	142	85	115
Furniture. Knockdown.....	D. Lynn.....	599,107	Feb. 15	1770	420 421	82	973
Furniture-maker's clamp.....	J. L. Janowski.....	600,617	Mar. 15	1816	416	82	1604
Furniture. Portable.....	S. A. Dané.....	597,050	Jan. 11	1039	245	82	21g
Furniture spring-back.....	A. G. Hofstatter.....	606,992	July 5	619	135	84	122
Furrower, marker, and coverer. Combined.....	S. Linthicum, Jr.....	605,963	June 21	1713	393	83	1715
Fuse-box.....	J. B. Smith.....	606,771	July 5	264	55	84	53
Fuse for electric circuits. Safety.....	G. W. Gardanier.....	611,243	Sept. 27	1999	461	84	1880
Fuse for explosive projectiles or shells. Percussion.....	F. M. Hale, J. Deas, and J. B. Reavil.....	616,317	Dec. 20	2046	476	85	1845
Fuse-holder, circuit-breaker, and lightning-arrester.....	H. A. Lewis.....	607,251	July 12	1164	249	84	240
Fuse-lighter.....	J. Fraser.....	599,998	Mar. 1	584	134	82	1328
Fuse. Safety.....	L. A. Ferguson.....	597,969	Jan. 25	2605	609	82	556
Fuse. Shell.....	G. M. Hathaway.....	612,494	Oct. 18	1588	379	85	329
Fuse. Time.....	A. F. Tirot and A. Guyot.....	616,039	Dec. 13	1494	349 350	85	1718
Fuse-wire holder. Electrical.....	W. D. Packard.....	613,594	Nov. 1	670	155	85	743
Gage:							
See Alarm-gage:	Plow row-gage.						
Axle-gage.	Pressure-gage.						
Boiler-gage.	Pressure and vacuum						
Centering-gage.	gage.						
Cutting and trim-	Pressure or vacuum						
ming machine	gage.						
gage.	Railway-track gage.						
Finger-gage.	Saw-table gage.						
Finger-ring gage.	Sewing-machine gage.						
Horseshoer's gage.	Shears-gage.						
Knife-gage.	Stair-builder's gage.						
Mechanic's gage.	Thimble-gage.						
Micrometer-gage.	Watch-crystal gage.						
Micrometer depth-	Watchmaker's gage.						
gage.							
Gage.....	J. McCormick.....	612,749	Oct. 18	2052	487	85	417
Gage.....	S. A. Seat.....	610,286	Sept. 6	278	60	84	1495
Gage-alarm.....	H. Cunderman.....	600,244	Mar. 8	1161	264	82	1461
Gage for liquid in vessels.....	R. S. Foltz and C. A. Phillips.....	602,069	Apr. 12	833	180	83	169
Gage-glass mounting.....	A. Vile.....	604,441	May 24	2240	502	83	1104
Gage-knife.....	G. M. Landers.....	602,758	Apr. 19	2015	457	83	412
Gage-shears.....	E. L. N. Steen.....	598,031	Jan. 25	2712	633	82	576
Gaging implement.....	J. E. Goddard.....	611,625	Oct. 4	54	14	85	13
Gaging jack-frame.....	C. Partington.....	613,073	Oct. 25	2623	621	85	548
Gaiter or covering for the legs.....	J. Pullman.....	607,272	July 12	1207	258	84	249
Galvanic apparatus.....	G. H. A. Schaefer.....	600,380	Mar. 8	1380	315	82	1503
Galvanic bath.....	C. E. Schnée.....	608,228	Aug. 2	106	27	84	676
Galvanic battery.....	E. Habermann.....	600,719	Mar. 15	1998	455	82	1639
Galvanic battery.....	C. T. Richmond.....	614,759	Nov. 22	2746	627	85	1193
Galvanic battery.....	W. Rowbotham.....	602,362	Apr. 12	1335	297 298	83	269
Galvanic cell.....	A. Heil.....	607,590	July 19	1960	407	84	417
Galvanic element.....	R. Krayn and C. Koenig.....	611,175	Sept. 20	1862	429	84	1835
Game.....	H. B. Cowper.....	613,192	Oct. 25	2804	662	85	585



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Game.....	H. G. Hellier.....	610,534	Sept. 13	734	167	84	1596
Game.....	R. A. Sloan and J. E. L. Barnes.....	614,996	Nov. 29	3208	737 738	85	1299
Game.....	J. H. and G. L. Tickner.....	611,086	Sept. 20	1697	390	84	1803
Game.....	W. Zolper.....	607,560	July 19	1903	393	84	406
Game apparatus.....	S. P. Anderton.....	598,969	Feb. 15	1541	366	82	928
Game apparatus.....	C. B. Aske.....	604,650	May 24	2615	598	83	1173
Game apparatus.....	T. Birch.....	601,700	Apr. 5	133	26	83	28
Game apparatus.....	J. H. C. Boig.....	607,013	July 12	681	148	84	155
Game apparatus.....	W. J. Bourke.....	613,658	Nov. 8	768	176	85	784
Game apparatus.....	F. W. Brennan.....	610,734	Sept. 13	1061	243	84	1663
Game apparatus.....	L. A. De Ribas.....	597,764	Jan. 25	2251	524	82	488
Game apparatus.....	M. D. Dexter.....	615,818	Dec. 13	1096	257	85	1640
Game apparatus.....	W. W. Dodge.....	607,020	July 12	691	150	84	157
Game apparatus.....	R. L. Ehmer.....	612,198	Oct. 11	1068	256	85	218
Game apparatus.....	W. C. Farnum.....	614,094	Nov. 15	1522	348	85	951
Game apparatus.....	W. Gilbert.....	607,031	July 12	716	153	84	160
Game apparatus.....	A. Hodge.....	610,053	Aug. 30	3471	805	84	1390
Game apparatus.....	C. Hollstein.....	609,390	Aug. 16	2281	539	84	1128
Game apparatus.....	F. von Holzhausen.....	609,347	Aug. 16	2205	522	84	1114
Game apparatus.....	B. F. Hutches, Jr.....	609,348	Aug. 16	2206	522	84	1114
Game apparatus.....	C. L. Klauder.....	605,723	June 14	1212	280	83	1603
Game apparatus.....	W. J. McCauley.....	599,063	Feb. 15	1697	402	82	960
Game apparatus.....	J. McClure and A. Bings.....	600,738	Mar. 15	2032	464	82	1646
Game apparatus.....	E. Meyer.....	616,244	Dec. 20	1921	444	85	1819
Game apparatus.....	A. E. Morgan.....	613,383	Nov. 1	301	70	85	675
Game apparatus.....	G. E. Murphy.....	611,758	Oct. 4	286	68	85	59
Game apparatus.....	H. D. Perky.....	611,504	Sept. 27	2506	578	84	1974
Game apparatus.....	H. T. Pycroft.....	603,539	May 3	552	121	83	707
Game apparatus.....	H. T. Pycroft.....	611,868	Oct. 4	482	117	85	96
Game apparatus.....	T. Renwick.....	602,187	Apr. 12	1050	229	83	211
Game apparatus.....	A. W. Rich and F. R. Freudenweiler.....	611,278	Sept. 27	2078	478	84	1895
Game apparatus.....	L. N. Shoemaker.....	601,287	Mar. 29	2980	673 674	82	1867
Game apparatus.....	T. M. St. John.....	606,744	July 5	201	43	84	41
Game apparatus.....	K. A. Sturges and I. Leaycraft.....	599,025	Feb. 15	1641	388	82	949
Game apparatus.....	J. A. Sutherland.....	598,879	Feb. 8	1373	331	82	882
Game apparatus.....	J. A. Tyng.....	596,556	Jan. 4	165	38	82	34
Game apparatus.....	E. L. Williams.....	601,863	Apr. 5	474	96	83	88
Game apparatus.....	W. H. Wright, Jr.....	613,435	Nov. 1	410	93	85	694
Game apparatus.....	J. O. Yardley.....	614,524	Nov. 22	2318	531	85	1113
Game apparatus. Base-ball.....	E. D. Mitchell.....	599,452	Feb. 22	2414	567	82	1118
Game apparatus. Coin-controlled.....	C. M. Linley.....	605,494	June 14	804	185 186	83	1528
Game-board.....	G. N. Ballou.....	613,550	Nov. 1	598	138	85	730
Game-board.....	J. E. Beman.....	613,876	Nov. 8	1167	267	85	859
Game-board.....	E. Gerry.....	614,543	Nov. 22	2345	538	85	1119
Game-board.....	H. L. Haskell.....	602,179	Apr. 12	1029	226	83	207
Game-board.....	H. L. Haskell.....	602,180	Apr. 12	1031	226	83	208
Game-board.....	C. M. Hyatt.....	611,453	Sept. 27	2416	554	84	1957
Game-board.....	W. H. Perry.....	602,358	Apr. 12	1329	295	83	267
Game-board.....	W. W. Phares.....	616,557	Dec. 27	2508	580	85	1954
Game-board.....	L. J. Scovell.....	608,918	Aug. 9	1368	324	84	940
Game-board and educational appliance.....	D. Golden.....	610,046	Aug. 30	3460	802	84	1388
Game-board. Tripartite.....	G. F. Gruver.....	611,450	Sept. 27	2411	553	84	1956
Game-carrier.....	M. H. Parker.....	597,016	Jan. 11	979	231	82	206
Game. Combined bowling.....	G. Brown.....	611,828	Oct. 4	415	99	85	82
Game-counter.....	J. Schneider.....	603,514	May 3	506	110	83	698
Game device.....	E. F. Barth.....	614,434	Nov. 22	2164	498	85	1086
Game device.....	H. C. Gallup.....	612,965	Oct. 25	2448	583	85	513
Game device.....	A. Lang.....	604,401	May 24	2159	485	83	1089
Game or puzzle.....	R. B. Barrows.....	615,469	Dec. 6	474	111	85	1503
Game or puzzle.....	B. B. Goldsmith.....	605,164	June 7	191	48	83	1387
Game or toy device.....	F. Gatward.....	614,542	Nov. 22	2344	587	85	1118
Game-pieces.....	R. G. Clarke.....	599,767	Mar. 1	164	40	82	1246
Game. Ring.....	J. Klauder.....	611,915	Oct. 4	557	136	85	110
Game-scoring device.....	A. Zestermann.....	603,356	May 3	191	44	83	638
Game-table.....	C. Lufsky.....	600,086	Mar. 1	844	194	82	1379
Game-trap.....	A. A. Downey.....	601,243	Mar. 29	2880	656	82	1847
Games of cards. Apparatus for playing duplicate.....	G. L. Castner.....	606,121	June 21	2007	460	83	1770
Gangway-door for box-cars or steamboats.....	J. McAllister.....	608,209	Aug. 2	74	20	84	669
Garbage and fertilizers obtained therefrom. Treating.....	L. Rissmuller.....	611,580	Sept. 27	2651	-----	84	2002
Garbage and noxious gases. Treating.....	J. A. Dubbs.....	615,439	Dec. 6	414	99	85	1493
Garbage-burning furnace.....	J. F. G. de Bonardi and A. D. F. de Villepigue.....	600,855	Mar. 22	2224	507	82	1696
Garbage-closet.....	C. S. Robinson.....	606,087	June 21	1954	449	83	1759
Garbage-cremator. Domestic.....	J. U. Robertson.....	614,180	Nov. 15	1665	383	85	978
Garbage from buildings. Apparatus for disposing of.....	I. C. Goodridge.....	606,483	June 28	2692	620	83	1923
Garbage-furnace.....	I. D. Smead.....	607,553	July 19	1892	392	84	404
Garbage-receptacle.....	A. Reed.....	607,524	July 19	1833	382	84	395
Garbage-treating apparatus.....	C. Edgerton.....	599,229	Feb. 15	1961	465	82	1007
Garbage-treating apparatus.....	L. Rissmuller.....	600,597	Mar. 15	1788	409	82	1599
Garden implement.....	J. Miller.....	611,641	Oct. 4	89	21	85	20
Garden-tool.....	J. Brendner.....	598,173	Feb. 1	177	41	82	636
Garden-tool.....	L. B. Smith.....	602,370	Apr. 12	1348	301	83	272
Garment.....	A. S. Best.....	598,335	Feb. 1	461	110	82	689
Garment.....	A. H. Devoe.....	597,398	Jan. 18	1628	379	82	350
Garment.....	A. Gartner.....	616,460	Dec. 27	2320	541	85	1919
Garment.....	R. E. Lowe.....	596,893	Jan. 4	752	177	82	147
Garment.....	J. A. Scriven.....	610,564	Sept. 13	789	180	84	1606
Garment and hose support. Combined.....	C. A. W. Lindsay.....	605,108	June 7	69	20	83	1365
Garment and tent. Convertible.....	F. Terramorse.....	608,351	Aug. 2	334	73	84	722
Garment. Child's.....	J. G. Lewis.....	596,520	Jan. 4	107	24	82	22
Garment-clasp.....	W. G. McGee.....	601,814	Apr. 5	365	76	83	69



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Garment-clasp .....	S. J. Simmons .....	613,890	Nov. 8	1189	272	85	864
Garment distender and drier .....	P. O'Thayne .....	604,122	May 17	1644	368 369	83	968
Garment-fastener .....	J. F. Gates .....	599,699	Mar. 1	43	10	82	1224
Garment-fastener .....	E. B. Nelson .....	615,361	Dec. 6	260	61	85	1464
Garment-fastener .....	W. J. Wernitz .....	601,328	Mar. 29	3055	688	82	1880
Garment-fastening device .....	J. V. Washburne .....	615,510	Dec. 6	555	127	85	1519
Garment-hanger .....	P. Cummings and M. Wankerl .....	601,502	Mar. 29	3349	758	82	1988
Garment-hanger .....	E. H. Foote .....	608,766	Aug. 9	1065	244	84	883
Garment-hanger .....	J. Fuerchtinger .....	599,777	Mar. 1	178	44	82	1249
Garment-hanger .....	J. S. Heaton .....	609,743	Aug. 23	2921	683	84	1269
Garment-hanger .....	T. G. Owen .....	605,332	June 7	516	115	83	1451
Garment-holder .....	A. L. Lincoln .....	603,335	May 3	162	37	83	635
Garment-holder .....	R. S. McMillin .....	609,117	Aug. 16	1785	425	84	1030
Garment-holder .....	E. S. West .....	608,498	Aug. 2	584	131	84	771
Garment-hook .....	W. P. McIllyar .....	601,669	Apr. 5	80	16	83	16
Garment or other hook .....	J. Killinger .....	598,710	Feb. 8	1109	266	82	830
Garment. Sleeping- .....	W. Denton .....	599,995	Mar. 1	579	133 134	82	1322
Garment-stretcher .....	A. B. Pritchette .....	614,667	Nov. 22	2585	587	85	1161
Garment-supporter .....	H. S. Brewington .....	601,745	Apr. 5	241	48	83	46
Garment-supporter .....	R. Gorton .....	603,899	May 10	1197	271	83	849
Garment-supporter .....	A. S. Grimm .....	602,073	Apr. 12	839	182	83	170
Garment-supporter .....	M. B. Hammond .....	605,225	June 7	313	72	83	1411
Garment-supporter .....	W. B. Humphrey .....	602,805	Apr. 19	2108	476	83	429
Garment-supporter .....	E. Langell .....	598,104	Feb. 1	61	14	82	614
Garment-supporter .....	W. E. Moulton .....	606,729	July 5	165	37	84	34
Garment-supporter .....	P. Mullane .....	614,570	Nov. 22	2396	547	85	1128
Garment-supporter .....	W. G. Washburn .....	604,134	May 17	1867	374	83	973
Garment-supporter guard .....	J. M. Anck .....	611,596	Oct. 4	2	1	85	3
Garment-supporting device .....	W. J. Fleming .....	613,261	Nov. 1	62	15	85	628
Garment. Union .....	G. O. Cook .....	615,632	Dec. 6	767	177 178	85	1564
Garter .....	J. W. Clements .....	599,164	Feb. 15	1867	442	82	990
Gas-administering apparatus .....	W. A. Johnston and A. W. Browne .....	597,719	Jan. 25	2174	509	82	473
Gas-administering apparatus .....	W. A. Johnston and A. W. Browne .....	601,057	Mar. 22	2555	582 583 584	82	1758
Gas-administering apparatus .....	P. Ring .....	597,781	Jan. 25	2288	535	82	494
Gas analysis. Apparatus for .....	O. Bleier .....	605,991	June 21	1762	404	83	1724
Gas and electric-light fixture. Combination .....	J. W. Parkin .....	597,244	Jan. 11	1359	317	82	279
Gas and oil from water. Device for separating .....	M. W. Bovee .....	597,258	Jan. 11	1384	323	82	284
Gas and oil separator .....	J. S. Cullinan .....	611,314	Sept. 27	2144	495	84	1907
Gas apparatus .....	S. Broichgans .....	606,703	July 5	121	27	84	26
Gas apparatus .....	C. M. Gearing .....	615,385	Dec. 6	318	75	85	1475
Gas apparatus. Acetylene- .....	E. Appleby .....	598,837	Feb. 8	1297	314	82	866
Gas apparatus. Acetylene- .....	D. H. Chivert .....	604,967	May 31	3155	726	83	1297
Gas apparatus. Acetylene- .....	J. G. Kerr .....	596,937	Jan. 4	838	198 199	82	163
Gas apparatus. Acetylene- .....	J. Leede .....	597,291	Jan. 11	1428	335	82	293
Gas apparatus. Acetylene- .....	W. A. Ruhe and H. S. Burbank .....	600,177	Mar. 8	1054	238	82	1440
Gas. Apparatus for eliminating naphthalene from .....	L. J. Hirt .....	598,707	Feb. 8	1106	265	82	829
Gas. Apparatus for producing acetylene .....	R. F. Carter .....	598,048	Jan. 25	2737	639	82	581
Gas. Apparatus for producing acetylene .....	R. F. Carter .....	598,767	Feb. 8	1193	288	82	846
Gas. Apparatus for producing acetylene .....	V. Hanotier and G. Hostelet .....	599,098	Feb. 15	1746	415	82	969
Gas. Apparatus for producing acetylene .....	E. A. Morton-Brown .....	616,130	Dec. 20	1679	391 392	85	1769
Gas. Apparatus for using liquefied or compressed .....	J. B. Fournier .....	604,659	May 24	2627	601	83	1176
Gas-bracket. Swinging .....	A. J. Haebler .....	612,772	Oct. 18	2097	497	85	425
Gas-burner .....	A. Anzelewitz .....	597,600	Jan. 18	1971	459	82	419
Gas-burner .....	A. Beler .....	608,540	Aug. 2	652	147	84	784
Gas-burner .....	A. Buerkle .....	601,426	Mar. 29	3218	725 726	82	1912
Gas-burner .....	C. F. Cattell .....	616,453	Dec. 27	2307	538	85	1916
Gas-burner .....	E. J. Dolan .....	596,578	Jan. 4	210	46	82	42
Gas-burner .....	E. J. Dolan .....	616,828	Dec. 27	2995	698	85	2050
Gas-burner .....	A. L. Dowell .....	610,263	Sept. 6	220	50	84	1485
Gas-burner .....	J. C. Gray and T. Roderick .....	611,248	Sept. 27	2008	463	84	1882
Gas-burner .....	G. A. Hall .....	603,219	Apr. 26	2808	641	83	578
Gas-burner .....	J. F. Hewitt .....	603,273	May 3	52	14	83	611
Gas-burner .....	E. T. Jones .....	597,319	Jan. 11	1475	345	82	304
Gas-burner .....	E. T. Jones .....	607,049	July 12	772	169	84	169
Gas-burner .....	W. Ludlow .....	607,756	July 19	2237	473	84	469
Gas-burner .....	W. A. Mitchell .....	596,900	Jan. 4	771	182	82	150
Gas-burner .....	R. Momand .....	606,225	June 28	2218	509	83	1828
Gas-burner .....	R. Momand .....	613,044	Oct. 25	2568	610	85	537
Gas-burner .....	M. J. O'Reilly .....	600,166	Mar. 8	1040	234	82	1437
Gas-burner .....	F. Rhind .....	610,414	Sept. 6	520	113	84	1538
Gas-burner .....	R. Schelble .....	612,651	Oct. 18	1884	446	85	385
Gas-burner .....	W. W. Seeley .....	603,661	May 10	767	170	83	766
Gas-burner .....	C. S. Steward .....	603,613	May 3	686	153	83	734
Gas-burner .....	T. Wilson .....	604,102	May 17	1612	362	83	963
Gas-burner .....	G. I. Woolaver .....	598,047	Jan. 25	2736	638	82	581
Gas burner. Acetylene- .....	J. S. Billwiller .....	602,424	Apr. 19	1444	327	83	305
Gas burner. Acetylene- .....	E. J. Dolan .....	596,577	Jan. 4	209	46	82	42
Gas burner. Acetylene- .....	E. J. Dolan .....	597,057	Jan. 11	1054	248	82	222
Gas burner. Acetylene- .....	E. J. Dolan .....	602,835	Apr. 26	2164	491	83	456
Gas burner and heater .....	F. Barnhart .....	616,069	Dec. 20	1552	362	85	1745
Gas-burner. Electric-lighting .....	J. M. Anck .....	614,528	Nov. 22	2322	532	85	1113
Gas, &c. Burner for acetylene .....	J. A. Vincent .....	614,636	Nov. 22	2528	576	85	1151
Gas-burner for stoves or heaters .....	M. K. Newton .....	615,737	Dec. 13	949	220	85	1612
Gas-burner for water-heaters .....	H. F. Gabel .....	604,209	May 17	1805	406	83	1001
Gas-burner. Heat-generating .....	E. Herz .....	607,541	July 19	1869	388	84	401
Gas-burner heating and illuminating attachment .....	H. A. Bower .....	609,656	Aug. 23	2790	650	84	1243
Gas-burner. Incandescent .....	J. W. Braggar .....	605,562	June 14	912	213	83	1549
Gas-burner. Incandescent .....	G. W. Chalmers .....	612,797	Oct. 18	2144	509	85	435



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Gas-burner. Incandescent	G. Delin	616,295	Dec. 20	2014	469	85	1838
Gas-burner. Incandescent	O. Kern	611,914	Oct. 4	555	135	85	110
Gas-burner. Incandescent	J. B. de Léry	597,803	Jan. 25	2333	545	82	503
Gas-burner. Incandescent	C. E. Lotz	615,288	Dec. 6	123	33	85	1437
Gas-burner. Incandescent	D. Meyer	597,011	Jan. 11	970	230	82	205
Gas-burner. Incandescent	P. G. de Schodt	610,283	Sept. 6	273	59	84	1494
Gas-burner. Incandescent	W. L. Smith	599,809	Mar. 1	254	57	82	1261
Gas-burner. Multiple incandescent	E. Lindner	611,756	Oct. 4	283	67, 68	85	58
Gas-burner regulator	R. Gilchrist	611,471	Sept. 27	2450	564	84	1964
Gas-burner. Safety	S. H. Blodgett	615,011	Nov. 29	3226	742	85	1303
Gas-burner safety-cap	J. Olson	612,613	Oct. 18	1819	432	85	373
Gas-burner. Self-closing	F. P. Barney	598,892	Feb. 15	1395	336	82	901
Gas-burner valve-controlling device	J. D. C. Chateau	602,696	Apr. 19	1921	437	83	394
Gas-burners. Air-regulating device for atmospheric	J. N. Webb	613,871	Nov. 8	1160	266	85	858
Gas-burners. Air-regulating device for atmospheric	J. N. Webb	616,752	Dec. 27	2872	665	85	2024
Gas-burners. Apparatus for freeing, lighting, or extinguishing	P. Guyenot	613,990	Nov. 8	1345	306	85	895
Gas-burners. Automatic cut-off for	P. C. Folwell	610,623	Sept. 13	884	202	84	1627
Gas-burners. Automatic lighting device for	H. Borchardt	613,057	Oct. 25	2601	616	85	545
Gas-burners. Automatic lighting device for	H. Borchardt	613,058	Oct. 25	2603	616	85	545
Gas-burners. Chimney-holder for atmospheric	J. N. Webb	616,753	Dec. 27	2873	666	85	2025
Gas-burners. Electric lighter for	L. V. Lewitzki	601,351	Mar. 29	3089	698	82	1887
Gas-burners, &c., for heating purposes. Utilizing flames of	P. R. Wilde	616,564	Dec. 27	2516	582	85	1956
Gas-burners. Mantle for incandescent	C. Killing	614,555	Nov. 22	2363	-----	85	1122
Gas-burners. Mantle for incandescent	C. Killing	614,556	Nov. 22	2365	-----	85	1122
Gas-burners. Mantle for incandescent	H. P. D. Ohlhaver	603,473	May 3	415	-----	83	680
Gas. Burning acetylene	E. N. Dickerson	602,833	Apr. 26	2162	491	83	455
Gas-burning apparatus	T. E. and P. F. McCaffrey	598,737	Feb. 8	1150	276	82	838
Gas. Carbide-cartridge for acetylene	E. N. Dickerson	610,171	Sept. 6	34	8	84	1448
Gas. Composition, process of, and apparatus for making	G. W. Lee, F. Elliott, and G. Tatham	614,400	Nov. 15	2094	482	85	1058
Gas-compressor	J. Sedlacek	606,430	June 28	2611	602	83	1907
Gas-compressor	R. Wright	610,573	Sept. 13	800	182 183	84	1608
Gas compressor. Ammonia-	J. J. Bailey	599,487	Feb. 22	2486	584	82	1131
Gas compressor. Ammoniacal-	A. Giesler	602,802	Apr. 19	2103	474 475	83	428
Gas. Device for preventing discharge of	A. S. Huffman	603,993	May 10	1354	309	83	880
Gas-engine	M. F. Bates	607,536	July 19	1854	385 386	84	399
Gas-engine	M. Beck	602,820	Apr. 26	2144	486 487	83	451
Gas-engine	L. F. Burger	598,496	Feb. 8	729	176	82	758
Gas-engine	H. G. Carnell	613,757	Nov. *8	959	220 221	85	820
Gas-engine	J. Carnes and C. W. McKibben	603,125	Apr. 26	2665	605	83	551
Gas-engine	F. E. Culver	601,012	Mar. 22	2486	565	82	1744
Gas-engine	A. H. Dingman	610,034	Aug. 30	3440	797	84	1384
Gas-engine	J. F. Duryea	605,815	June 14	1393	319 320	83	1637
Gas-engine	J. Fraser	599,496	Feb. 22	2500	588 589	82	1134
Gas-engine	C. Guyer	596,809	Jan. 4	623	144	82	120
Gas-engine	H. H. Hennegin	597,771	Jan. 25	2258	526 527	82	489
Gas-engine	T. H. Hicks	606,386	June 28	2520	585	83	1888
Gas-engine	D. D. Hobbs	613,417	Nov. 1	374	86, 87	85	687
Gas-engine	C. Jacobson	607,566	July 19	1915	396 397	84	408
Gas-engine	J. N. Kelly and W. M. Kelch	610,682	Sept. 13	973	225 226	84	1646
Gas-engine	J. Lizotte	600,675	Mar. 15	1922	437	82	1624
Gas-engine	S. E. Maxwell	601,210	Mar. 22	2810	642 643	82	1806
Gas-engine	L. H. Millen	612,047	Oct. 11	816	200 201	85	170
Gas-engine	J. J. Ohrt	608,298	Aug. 2	222	52	84	699
Gas-engine	F. C. Olin	613,390	Nov. 1	313	72, 73	85	676
Gas-engine	J. A. Ostenberg	612,756	Oct. 18	2062	490	85	419
Gas-engine	C. Quast	597,326	Jan. 11	1493	349	82	307
Gas-engine	C. Quast	607,878	July 26	2512	533	84	539
Gas-engine	C. Quast	607,879	July 26	2515	533	84	540
Gas-engine	J. Reid	607,276	July 12	1216	259 260	84	251
Gas-engine	S. S. Simrak	598,025	Jan. 25	2703	631	82	574
Gas-engine	H. C. Sträng	615,052	Nov. 29	3316	762	85	1319
Gas-engine	D. M. Tuttle	604,241	May 17	1860	416 417	83	1010
Gas-engine	B. C. Vanduzen	600,754	Mar. 15	2051	469 470	82	1650
Gas-engine	A. A. Vansickle	615,766	Dec. 13	1007	234 235	85	1622
Gas-engine	W. E. White	599,375	Feb. 22	2250	534	82	1086
Gas-engine	L. J. Wing	607,580	July 19	1940	402 403	84	413
Gas-engine	W. J. Wright	607,903	July 26	2559	543	84	549
Gas-engine	W. J. Wright	607,904	July 26	2563	543	84	549
Gas-engine attachment	W. E. White	599,376	Feb. 22	2254	535	82	1086
Gas engine. Explosive-	J. Madlehner and F. Hamilton	616,059	Dec. 13	1530	357 358	85	1724
Gas-engine. High-pressure	W. von Oechelhaeuser	596,613	Jan. 4	274	60	82	55
Gas engine. Hydrocarbon-	W. O. Worth	607,613	July 19	2000	414	84	424
Gas-engines. Supply-controlling mechanism for	J. S. Klein	613,284	Nov. 1	110	26	85	637



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Gas-engines. Supply-controlling mechanism for.	J. S. Klein	615,393	Dec. 6	332	78, 79	85	1477
Gas-fixture. Annunciator.	J. L. Bixby	608,100	July 26	2907	622	84	619
Gas-fixture. Safety	A. N. Hoxie	604,617	May 24	2561	584	83	1163
Gas for incandescent gas-lamps. Apparatus for compressing	G. Rothgiesser	597,783	Jan. 25	2295	536	82	495
Gas for producing light and heat. Utilizing hydrogen	L. V. Pratis and P. Marengo	610,868	Sept. 13	1307	300 301	84	1714
Gas-forming apparatus	D. Clegg	606,189	June 28	2134	490	83	1812
Gas from fermenting liquors. Collecting	J. Schneible	604,125	May 17	1648	370	83	969
Gas from kerosene, &c., by means of wicks. Generating	J. H. Moss	608,394	Aug. 2	402	89	84	735
Gas from oil. Apparatus for making	F. L. Martenette	610,994	Sept. 20	1533	352	84	1771
Gas from oil, &c. Apparatus for separating natural	L. Losure	609,284	Aug. 16	2101	497	84	1093
Gas-generating apparatus. Acetylene	E. Armanet	603,073	Apr. 26	2570	583	83	532
Gas-generating apparatus. Acetylene	J. Boland	608,643	Aug. 9	857	197	84	843
Gas-generating apparatus. Acetylene	E. N. Dickerson	604,139	May 17	1672	376	83	974
Gas-generating apparatus. Acetylene	J. Flood and J. Kipling	601,791	Apr. 5	326	66	83	61
Gas-generating apparatus. Acetylene	O. Grenier and J. Grand	606,539	June 28	2802	646	83	1945
Gas-generating apparatus. Acetylene	A. B. Griffen	605,958	June 21	1707	391	83	1714
Gas-generating apparatus. Acetylene	J. T. and T. C. Hays	609,673	Aug. 23	2815	656	84	1249
Gas-generating apparatus. Acetylene	G. de Roussy de Sales	604,667	May 24	2645	606	83	1179
Gas-generating apparatus. Acetylene	J. W. Scarth and W. A. Thornton	605,137	June 7	126	32	83	1375
Gas-generating apparatus. Acetylene	A. K. Stein	599,270	Feb. 15	2031	481 482	82	1022
Gas-generating apparatus. Acetylene	M. Strakosch	610,150	Aug. 30	3618	841	84	1421
Gas-generating apparatus. Acetylene	A. A. Strom	608,804	Aug. 9	1140	264 265	84	897
Gas-generating apparatus. Acetylene	H. H. Suplee	606,037	June 21	1850	427	83	1739
Gas-generating apparatus. Acetylene	F. S. Thorn and C. Hoddle	604,199	May 17	1787	403	83	998
Gas-generating apparatus. Acetylene	L. Troubetzkoy	614,906	Nov. 29	3019	691	85	1260
Gas-generating apparatus. Acetylene	E. G. Villejean and H. J. J. Frossard	600,563	Mar. 15	1732	395 396	82	1588
Gas-generating apparatus. Acetylene	J. A. Vincent	602,189	Apr. 12	1053	230	83	212
Gas-generating burner. Oil	O. Gasset	601,094	Mar. 22	2607	595	82	1768
Gas-generating gas-fixture	J. F. Williams	606,435	June 28	2620	604	83	1909
Gas-generator	H. Keller	611,490	Sept. 27	2485	573	84	1970
Gas-generator	W. Sams	598,393	Feb. 1	548	134	82	706
Gas-generator	A. J. Tackle	600,298	Mar. 8	1254	286	82	1478
Gas generator. Acetylene	B. F. Bailey	613,651	Nov. 1	758	174	85	761
Gas generator. Acetylene	J. B. Barrody	613,486	Nov. 1	503	113	85	711
Gas generator. Acetylene	W. J. Baulieu	611,885	Oct. 4	509	123	85	101
Gas generator. Acetylene	H. J. Bell	608,541	Aug. 2	653	148 149	84	784
Gas generator. Acetylene	T. Beucus and L. Black	613,790	Nov. 8	1013	231	85	830
Gas generator. Acetylene	L. K. Böhm	609,494	Aug. 23	2486	581	84	1185
Gas generator. Acetylene	T. A. Bryan and J. H. Couper	603,397	May 3	263	58, 59	83	650
Gas generator. Acetylene	L. S. Buffington	614,439	Nov. 22	2173	499	85	1087
Gas generator. Acetylene	F. E. Bundy	608,571	Aug. 9	714	163	84	817
Gas generator. Acetylene	F. E. Bundy	610,937	Sept. 20	1423	327	84	1751
Gas generator. Acetylene	C. H. Campbell	600,985	Mar. 22	2435	556	82	1734
Gas generator. Acetylene	J. H. Couper	605,397	June 7	650	145 146	83	1477
Gas generator. Acetylene	J. H. Couper and T. A. Bryan	605,398	June 7	652	146	83	1477
Gas generator. Acetylene	J. H. Couper and T. A. Byran. (Re-issue.)	11,701	Nov. 8	1473	338	85	921
Gas generator. Acetylene	A. Dauber	614,936	Nov. 29	3085	709	85	1275
Gas generator. Acetylene	Z. P. Dederick	599,074	Feb. 15	1713	407	82	963
Gas generator. Acetylene	E. J. Dolan	604,140	May 17	1673	376	83	974
Gas generator. Acetylene	J. F. Dougherty	613,976	Nov. 8	1324	301	85	890
Gas generator. Acetylene	J. W. Earl and B. E. Roberts	612,517	Oct. 18	1620	386 387	85	336
Gas generator. Acetylene	F. A. Feldkamp	614,425	Nov. 15	2149	495	85	1068
Gas generator. Acetylene	J. C. Gallagher	597,900	Jan. 25	2484	580	82	532
Gas generator. Acetylene	E. P. Gardner	615,979	Dec. 13	1377	322	85	1694
Gas generator. Acetylene	E. J. Gellenbeck	613,879	Nov. 8	1171	268	85	860
Gas generator. Acetylene	C. R. Gillett and O. S. Hellwig	603,506	May 3	494	108	83	697
Gas generator. Acetylene	F. Ginnasi	613,901	Nov. 8	1203	275	85	866
Gas generator. Acetylene	E. Godin	604,039	May 17	1480	332	83	938
Gas generator. Acetylene	W. W. Goodwin	604,879	May 31	3018	693	83	1269
Gas generator. Acetylene	E. Gossart	606,861	July 5	425	91	84	84
Gas generator. Acetylene	A. M. Griffin	611,577	Sept. 27	2645	610	84	2001
Gas generator. Acetylene	A. M. Griffin	612,841	Oct. 25	2248	537	85	473
Gas generator. Acetylene	H. M. Handshy	600,868	Mar. 22	2242	511	82	1699
Gas generator. Acetylene	J. L. Hardwick and S. O. Manville	598,868	Feb. 8	1553	326	82	876
Gas generator. Acetylene	G. L. Harvey	614,652	Nov. 22	2351	582	85	1155
Gas generator. Acetylene	W. Heckert	612,845	Oct. 25	2254	538	85	474
Gas generator. Acetylene	F. W. Hedgeland	600,614	Mar. 15	1811	415	82	1603
Gas generator. Acetylene	G. L. Hogan	611,483	Sept. 27	2473	570	84	1967
Gas generator. Acetylene	W. Holt	612,242	Oct. 11	1148	276	85	234
Gas generator. Acetylene	J. M. J. Jacquot	616,108	Dec. 20	1635	382	85	1762
Gas generator. Acetylene	M. H. Kauffman	612,648	Oct. 18	1879	445	85	384
Gas generator. Acetylene	M. D. Keiser	615,558	Dec. 6	639	146	85	1536
Gas generator. Acetylene	A. Keith and J. H. Byrne	608,460	Aug. 2	518	116	84	758
Gas generator. Acetylene	C. Kelly	608,869	Aug. 9	1282	299	84	922
Gas generator. Acetylene	J. Kirkham	609,189	Aug. 16	1902	453	84	1051
Gas generator. Acetylene	R. Kühn	600,727	Mar. 15	2011	458	82	1641
Gas generator. Acetylene	H. W. and E. E. Laun	599,394	Feb. 22	2299	543	82	1096
Gas generator. Acetylene	J. Leede	613,162	Oct. 25	2755	649	85	575
Gas generator. Acetylene	C. P. Leshner	613,689	Nov. 8	817	187	85	792
Gas generator. Acetylene	T. E. Lewis	606,673	July 5	71	15	84	16
Gas generator. Acetylene	T. E. Lewis	606,674	July 5	73	15	84	17
Gas generator. Acetylene	N. Likins	616,124	Dec 20	1668	389	85	1767
Gas generator. Acetylene	C. N. Lippitt	616,546	Dec. 27	2487	576	85	1950
Gas generator. Acetylene	A. F. Mace and L. R. Keough	614,664	Nov. 22	2580	586 587	85	1159



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Gas generator. Acetylene.....	C. Maurin .....	612,361	Oct. 11	1363	{ 330 331	{ 85	273
Gas generator. Acetylene.....	W. A. McCune.....	610,306	Sept. 6	318	68	84	1502
Gas generator. Acetylene.....	W. McGraw .....	603,535	May 3	547	120	83	706
Gas generator. Acetylene.....	P. McMurray .....	599,347	Feb. 22	2197	{ 521 522	{ 82	1074
Gas generator. Acetylene.....	M. F. McNelly .....	610,877	Sept. 13	1325	304	84	1718
Gas generator. Acetylene.....	J. A. Mosher .....	616,483	Dec. 27	2369	550	85	1929
Gas generator. Acetylene.....	J. H. Needels .....	612,753	Oct. 18	2056	488	85	418
Gas generator. Acetylene.....	C. Ogburn .....	603,655	May 10	757	169	83	764
Gas generator. Acetylene.....	J. A. Olson .....	607,701	July 19	2155	453	84	453
Gas generator. Acetylene.....	R. Pintsch .....	611,002	Sept. 20	1546	356	84	1774
Gas generator. Acetylene.....	W. S. Powers and A. J. Reynolds	608,270	Aug. 2	173	42	84	689
Gas generator. Acetylene.....	W. S. Proskey .....	612,956	Oct. 25	2432	580	85	510
Gas generator. Acetylene.....	J. M. Raymond and L. E. Lemley	603,205	Apr. 26	2786	636	83	574
Gas generator. Acetylene.....	V. Sardi .....	610,086	Aug. 30	3523	816	84	1401
Gas generator. Acetylene.....	J. Schaldenbrand	616,147	Dec. 20	1725	400	85	1778
Gas generator. Acetylene.....	H. Schneckloth.....	606,305	June 28	2363	{ 547 548	{ 83	1859
Gas generator. Acetylene.....	O. G. Seward .....	603,747	May 10	909	{ 201 202	{ 83	793
Gas generator. Acetylene.....	E. E. Shuler .....	605,926	June 21	1629	374	83	1700
Gas generator. Acetylene.....	F. H. Smith .....	607,650	July 19	2071	432	84	427
Gas generator. Acetylene.....	F. H. Smith .....	616,266	Dec. 20	1957	456	85	1826
Gas generator. Acetylene.....	J. A. Welton and J. V. Price	609,313	Aug. 16	2154	510	84	1105
Gas generator. Acetylene.....	D. S. Williams .....	614,593	Nov. 22	2442	557	85	1134
Gas generator. Acetylene.....	J. Williamson .....	609,861	Aug. 30	3119	729	84	1322
Gas generator. Acetylene.....	C. L. Wilson, J. W. Unger, C. Muma, A. P. Brosius, and J. C. Kuchel.	598,213	Feb. 1	255	56	82	650
Gas generators. Regulating-cock for acetylene	N. H. Medberry .....	611,698	Oct. 4	192	45	85	40
Gas-heated furnace .....	C. Bond .....	613,961	Nov. 8	1294	294	85	884
Gas-heater .....	M. Zippler .....	605,560	June 14	908	212	83	1549
Gas heater. Acetylene.....	E. J. Dolan .....	597,495	Jan. 18	1804	418	82	384
Gas-heater valve .....	A. E. Detwiler .....	608,974	Aug. 9	1480	350	84	960
Gas heating and expanding device	J. C. Henderson .....	606,660	July 5	42	10	84	11
Gas-igniter. Automatic .....	A. Rammoser .....	612,177	Oct. 11	1037	...	85	212
Gas-jet cut-off .....	L. Ramage .....	605,132	June 7	109	28	83	1372
Gas-key .....	G. E. Wemhoff .....	614,152	Nov. 15	1625	373	85	970
Gas-light burner. Incandescent	A. H. Petereit .....	599,915	Mar. 1	458	{ 102 103	{ 82	1300
Gas-light electrical attachment	F. L. Kellner and G. S. Barrows	603,334	May 3	160	37	83	632
Gas-light tassel. Incandescent	L. Hooker .....	605,960	June 21	1709	392	83	1714
Gas-lights. Antivibration burner for incandescent	W. F. Rudolph .....	615,309	Dec. 6	151	40	85	1442
Gas-lighter .....	T. N. McNish .....	602,351	Apr. 12	1317	293	83	266
Gas-lighter. Pneumatic .....	E. Knapp .....	615,717	Dec. 13	912	213	85	1604
Gas-lighters. Manufacture of catalytic	W. H. Porter .....	612,615	Oct. 18	1822	...	85	374
Gas-lighting apparatus. Electric	W. E. Cram and J. H. L. Clegg	599,121	Feb. 15	1789	427	82	977
Gas-lighting apparatus. Electric	C. Eickmann .....	598,316	Feb. 1	436	{ 104 105	{ 82	684
Gas-lighting device .....	C. Killing .....	614,557	Nov. 22	2368	542	85	1122
Gas-lighting pellets. Producing platinum	J. Perl .....	615,363	Dec. 6	262	...	85	1465
Gas-log .....	A. W. Monroe .....	613,015	Oct. 25	2524	601	85	529
Gas-machine .....	W. L. Ratisseau .....	613,720	Nov. 8	881	204	85	805
Gas machine. Automatic acetylene	C. S. Burton .....	609,226	Aug. 16	1984	471	84	1069
Gas machines. Hydraulic blower and pressure ap- paratus for .....	J. Stubbers .....	599,538	Feb. 22	2565	602	82	1146
Gas-making apparatus .....	E. Grey .....	600,221	Mar. 8	1123	256	82	1454
Gas-mantles and apparatus therefor. Method of incinerating incandescent	T. J. McTighe .....	604,121	May 17	1642	368	83	968
Gas. Manufacture of .....	F. L. Slocum .....	612,462	Oct. 18	1536	369	85	319
Gas-manufacturing apparatus .....	J. M. Bois .....	615,523	Dec. 6	574	{ 131 132	{ 85	1523
Gas-manufacturing apparatus .....	J. L. Hastings .....	615,450	Dec. 6	434	103	85	1497
Gas-manufacturing apparatus .....	H. C. Shields .....	604,427	May 24	2215	496	83	1100
Gas-manufacturing apparatus. Acetylene	H. Cousin .....	604,229	May 17	1836	411	83	1007
Gas-meter .....	J. Greenall .....	611,626	Oct. 4	55	14, 15	85	13
Gas-meter .....	J. Tourtel .....	597,484	Jan. 18	1789	414	82	381
Gas-meter. Coin-freed .....	J. Nasmith .....	614,213	Nov. 15	1734	398	85	992
Gas-meter. Coin-freed .....	E. Simpkins .....	613,329	Nov. 1	191	42	85	653
Gas-meter. Coin-freed prepayment	E. F. Griffiths .....	612,544	Oct. 18	1666	{ 396 397	{ 85	344
Gas-meter. Prepayment .....	E. F. Griffiths .....	603,079	Apr. 26	2581	586	83	534
Gas-meter. Prepayment .....	C. W. Hinman .....	603,850	May 10	1107	249	83	832
Gas-meter. Prepayment .....	J. T. Mahoney and E. F. Griffiths	601,576	Mar. 29	3457	786	82	1961
Gas-meters. Combined excess and back pressure check for .....	W. B. Hoyt .....	613,681	Nov. 8	801	184	85	790
Gas. Method of and apparatus for carbureting water .....	A. G. Glasgow .....	598,921	Feb. 15	1447	347	82	911
Gas. Method of and apparatus for collecting and purifying .....	J. Schneible .....	611,081	Sept. 20	1686	387	84	1801
Gas. Method of and apparatus for generating acetylene .....	C. R. Gillett .....	611,473	Sept. 27	2454	565	84	1964
Gas. Method of and apparatus for manufacturing	J. Coyne .....	601,432	Mar. 29	3227	{ 727 728 729	{ 82	1913
Gas. Method of and apparatus for manufacturing	V. B. Lewes .....	615,996	Dec. 13	1418	332	85	1702
Gas mixer. Fuel .....	A. Krieger and J. Coyle .....	604,116	May 17	1635	367	83	967
Gas mixtures. Lighting apparatus for explosive	P. F. Gans .....	614,299	Nov. 15	1900	439	85	1021
Gas-motor .....	L. V. Pratis and P. Marengo	610,869	Sept. 13	1311	301	84	1715
Gas-motor. Differential .....	G. G. Smith .....	597,749	Jan. 25	2222	{ 517 518	{ 82	482
Gas motor. Oil .....	H. K. Clover .....	603,318	May 3	126	30	83	626
Gas or gasolene engine .....	T. M. Doyle .....	602,556	Apr. 19	1665	{ 378 379	{ 83	345
Gas or liquid vending machine .....	J. N. Coons .....	614,291	Nov. 15	1885	436	85	1018
Gas or oil engine .....	F. S. Mead .....	603,914	May 10	1221	276	83	853



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gas or oil engine .....	F. S. Mead .....	612,258	Oct. 11	1187	285	85	240
Gas or oil heater .....	J. J. Nix .....	615,193	Nov. 29	3566	821	85	1367
Gas or oil motor engine .....	H. A. Humphrey .....	611,125	Sept. 20	1774	407	84	1818
Gas or oil motor for bicycles .....	W. Morava .....	608,968	Aug. 9	1465	346	84	957
Gas or vapors. Art of and means for lighting .....	A. Simonini .....	614,583	Nov. 22	2419	553	85	1132
Gas-pressure generator .....	E. P. Woillard .....	601,456	Mar. 29	3270	739	82	1921
Gas. Process of and apparatus for burning acetylene .....	M. Grimm .....	605,868	June 21	1519	349	83	1679
Gas. Process of and apparatus for generating .....	A. T. Welch .....	596,560	Jan. 4	172	39	82	35
Gas. Process of and apparatus for generating oil .....	N. C. Henning .....	616,418	Dec. 20	2236	522	85	1881
Gas, &c. Process of and apparatus for making hydrogen .....	L. V. Pratis and P. Marengo .....	610,867	Sept. 13	1304	300	84	1713
Gas. Process of and apparatus for manufacturing .....	L. Stevens .....	614,352	Nov. 15	2008	464	85	1042
Gas. Process of and apparatus for producing .....	V. B. Lewes .....	615,997	Dec. 13	1421	332	85	1702
Gas. Process of and composition for making .....	L. G. Harris .....	609,582	Aug. 23	2630	615	84	1212
Gas-producer .....	P. English .....	609,761	Aug. 23	2945	689	84	1274
Gas-producer .....	J. Fraser .....	603,328	May 3	148	34, 35	83	631
Gas-producer .....	C. Humfrey .....	612,342	Oct. 11	1329	320	85	266
Gas-producer .....	J. G. Sanderson .....	600,954	Mar. 22	2381	542	82	1725
Gas-producer .....	J. G. Sanderson .....	609,705	Aug. 23	2868	670	84	1258
Gas-producers. Coal-feeder for .....	J. L. Hastings .....	615,451	Dec. 6	440	104	85	1497
Gas-producing apparatus. Acetylene .....	H. A. Derooy .....	604,025	May 17	1460	327	83	935
Gas-producing apparatus. Acetylene .....	T. Hennessy .....	608,985	Aug. 9	1502	356	84	964
Gas-producing apparatus. Acetylene .....	T. Holliday .....	610,055	Aug. 30	3472	805	84	1391
Gas-regulator .....	A. Kuhne .....	605,168	June 7	197	50	83	1388
Gas-regulator .....	J. F. Simmance .....	611,519	Sept. 27	2531	584	84	1980
Gas-regulator. Safety .....	J. C. Reynolds .....	616,730	Dec. 27	2844	659	85	2019
Gas-regulator. Thermostatic .....	J. S. Coe .....	607,406	July 12	1446	307	84	295
Gas-regulators. Electric controller for .....	W. E. H. Williams and P. Seiler .....	602,548	Apr. 19	1654	376	83	343
Gas-retorts. Apparatus for charging inclined .....	A. Coze .....	613,854	Nov. 8	1123	256	85	850
Gas shut-off. Automatic .....	J. Baird .....	603,998	May 10	1367	311	83	883
Gas-supply apparatus. Automatic .....	E. N. Dickerson .....	611,168	Sept. 20	1851	427	84	1833
Gas-supply meter. Prepaid .....	J. D. Forster .....	602,002	Apr. 5	720	153	83	136
Gas-tight connection for traps or pipes and water-closet bowls .....	R. M. Reilly .....	608,007	July 26	2757	585	84	589
Gas-tip .....	W. H. Porter .....	612,616	Oct. 18	1823	433	85	374
Gas tip. Acetylene .....	L. K. Böhm .....	606,441	June 28	2629	604	83	1911
Gas-tips. Nesting .....	W. H. Porter .....	612,055	Oct. 11	827	203	85	172
Gas under high pressure. Producing and storing .....	E. M. T. Boddam .....	605,217	June 7	298	69	83	1407
Gas-vending apparatus. Automatic .....	C. P. Mayer and J. H. Pomeroy .....	604,406	May 24	2166	487	83	1090
Gas-washing apparatus .....	A. E. Deacon .....	601,888	Apr. 5	511	105	83	96
Gas, water, &c. Means for automatically controlling supply of .....	J. S. Coe .....	610,343	Sept. 6	386	82	84	1514
Gases. Burner for acetylene or other .....	G. Lebrun and F. Cornaille .....	605,886	June 21	1557	358	83	1687
Gases. Capsule or container for containing compressed or liquefied .....	E. Sterné .....	608,349	Aug. 2	330	73	84	722
Gases. Capsule or receiver for containing liquefied or highly-compressed .....	H. V. R. Read .....	614,181	Nov. 15	1594	365	85	965
Gases in operating engines, &c. Utilizing liquefiable .....	E. V. Roure .....	607,662	July 19	2094	437	84	441
Gases. Valve and gage for administering oxygen or other .....	J. R. Crane .....	598,242	Feb. 1	297	67	82	658
Gases. Vessel for containing liquid .....	C. Schmitz .....	597,024	Jan. 11	992	234	82	209
Gaseous products from dry distillation of wood. Apparatus for extracting .....	A. Schmidt .....	616,637	Dec. 27	2653	614	85	1981
Gasket .....	J. A. Bernardi .....	612,394	Oct. 18	1417	342	85	297
Gasket. Metallic .....	P. F. Leary .....	602,542	Apr. 19	1643	374	83	341
Gasolene-engine .....	W. R. Bullis .....	597,389	Jan. 18	1612	375	82	348
Gasolene-purifier .....	F. Messick .....	603,960	May 10	1294	295	83	868
Gasometer .....	R. H. Cullum .....	612,516	Oct. 18	1618	386	85	335
Gastroscope. Bent rotatable .....	G. E. Kelling .....	598,787	Feb. 8	1225	297	82	852
Gate:							
See Automatic gate. Railway-gate.							
Automatically-opening gate. Railway cattle-guard gate.							
Bridge-gate. Railway-crossing gate.							
Bridge safety-gate. Railway safety-gate.							
Car-gate. Revolving gate.							
Drive-gate. Safety-gate.							
Elevator-gate. Self-closing gate.							
End-gate. Starting-gate.							
Farm-gate. Stock-yard gate.							
Fence-gate. Stop-gate.							
Flood-gate. Swinging gate.							
Head-gate. Tilting gate.							
Mine-gate. Vaulting gate.							
Nursery-gate. Water-gate.							
Gate .....	L. Arnoldt .....	603,753	May 10	917	203	83	795
Gate .....	H. Asbell .....	609,926	Aug. 30	3233	757	84	1343
Gate .....	S. E. Auker .....	599,583	Feb. 22	2655	622	82	1164
Gate .....	B. A. Baker .....	612,187	Oct. 11	1050	253	85	215
Gate .....	C. Ball .....	603,163	Apr. 26	2721	618	83	562
Gate .....	R. N. Barger .....	615,950	Dec. 13	1231	312	85	1683
Gate .....	D. Barnes .....	596,733	Jan. 4	495	113	82	96
Gate .....	J. F. Barnes .....	605,771	June 14	1295	299	83	1619
Gate .....	C. D. Bell .....	606,502	June 28	2721	627	83	1929
Gate .....	H. C. Betts .....	607,333	July 12	1811	280	84	271
Gate .....	J. Billingsley .....	614,788	Nov. 22	2793	640	85	1202
Gate .....	E. D. Bradford .....	613,235	Nov. 1	17	4, 5	85	621
Gate .....	A. C. Burner .....	609,774	Aug. 30	2970	695	84	1291
Gate .....	J. Chaney .....	616,404	Dec. 20	2212	516	85	1877



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Gate.....	J. H. Chenoweth.....	610,121	Aug. 30	3577	828	84	1413
Gate.....	W. H. Clay.....	603,258	May 3	25	7	83	605
Gate.....	P. Coupal.....	607,682	July 19	2118	444	84	446
Gate.....	W. Cross.....	616,054	Dec. 13	1522	356	85	1723
Gate.....	G. Davis.....	605,860	June 21	1508	345	83	1676
Gate.....	C. E. Deaton.....	613,254	Nov. 1	48	12	85	626
Gate.....	A. Flesher and J. L. Crisler.....	608,959	Aug. 9	1449	343	84	954
Gate.....	J. W. Gilbert and H. H. Parker.....	602,984	Apr. 26	2421	551	83	504
Gate.....	I. A. Gordon.....	609,617	Aug. 23	2711	632	84	1227
Gate.....	J. B. Graham and P. F. Frost.....	600,986	Mar. 22	2437	556	82	1735
Gate.....	E. Grist.....	608,670	Aug. 9	908	208	84	854
Gate.....	W. I. Harp.....	602,748	Apr. 19	2002	453	83	409
Gate.....	S. P. Harrington.....	609,806	Aug. 30	3033	710	84	1304
Gate.....	R. Hayden.....	599,503	Feb. 22	2515	592	82	1137
Gate.....	B. H. Hester.....	612,039	Oct. 11	798	197	85	167
Gate.....	E. J. Hicks.....	608,330	Aug. 2	298	65	84	715
Gate.....	A. Hines.....	608,331	Aug. 2	299	66	84	715
Gate.....	O. Honegger.....	597,285	Jan. 11	1421	333	82	292
Gate.....	D. K. Keaster.....	597,721	Jan. 25	2178	509	82	474
Gate.....	J. W. Kelley.....	601,078	Mar. 22	2587	590	82	1764
Gate.....	W. H. Kimball.....	613,010	Oct. 25	2518	599	85	528
Gate.....	S. J. Klein.....	609,680	Aug. 23	2828	660	84	1251
Gate.....	J. Langesen.....	614,560	Nov. 22	2373	543	85	1123
Gate.....	M. K. Lewis.....	608,465	Aug. 2	528	118	84	760
Gate.....	J. L. Manlove.....	609,035	Aug. 16	1615	384	84	1000
Gate.....	M. E. Margeson.....	613,455	Nov. 1	437	100	85	700
Gate.....	J. O. Marks.....	610,407	Sept. 6	510	111	84	1537
Gate.....	F. F. McMullen.....	605,794	June 14	1857	311	83	1630
Gate.....	B. McNall.....	599,008	Feb. 15	1602	380	82	941
Gate.....	J. Merrill.....	597,997	Jan. 25	2659	621	82	566
Gate.....	J. F. Millar and W. N. Robinson.....	601,581	Mar. 29	3467	789	82	1963
Gate.....	D. Miller.....	603,793	May 10	993	222	83	810
Gate.....	L. W. Orton.....	597,653	Jan. 18	2060	482	82	435
Gate.....	J. Ozenberger.....	610,661	Sept. 13	940	218	84	1639
Gate.....	P. Peterson.....	609,700	Aug. 23	2859	668	84	1256
Gate.....	R. Pratt, Jr.....	611,936	Oct. 4	592	143	85	116
Gate.....	G. R. Rogers.....	607,386	July 12	1407	300	84	289
Gate.....	T. Sawyer.....	605,748	June 14	1247	289	83	1610
Gate.....	E. Sayre and T. J. Johnson.....	611,740	Oct. 4	263	63	85	54
Gate.....	A. and J. Smith.....	610,978	Sept. 20	1497	341	84	1765
Gate.....	H. Stonge.....	598,541	Feb. 8	810	194	82	774
Gate.....	S. Stout.....	606,250	June 28	2275	526	83	1840
Gate.....	J. Trisler.....	607,300	July 12	1248	266	84	257
Gate.....	L. C. Tyler.....	610,422	Sept. 6	533	117	84	1541
Gate.....	G. Van Buskirk.....	601,991	Apr. 5	701	149	83	132
Gate.....	H. B. Weston.....	605,455	June 7	745	169	83	1496
Gate.....	W. A. Whitcomb.....	607,721	July 19	2181	460	84	459
Gate.....	W. A. Whitcomb.....	615,772	Dec. 13	1018	298	85	1625
Gate.....	W. R. White.....	614,682	Nov. 22	2612	593	85	1165
Gate.....	D. Wilson.....	597,449	Jan. 18	1730	400	82	369
Gate fastener. Wire-fence.....	A. Schlapbach.....	611,741	Oct. 4	264	63	85	54
Gate-hanger.....	S. Shreffler.....	598,023	Jan. 25	2701	630	82	573
Gate-hook.....	E. C. Grant.....	613,139	Oct. 25	2721	643	85	568
Gate operating and securing device.....	W. B. Wright.....	613,546	Nov. 1	589	136	85	728
Gate-operating mechanism.....	J. W. Dean.....	604,308	May 17	1994	447	83	1037
Gate or door hanger.....	A. Westin and O. S. Magnuson.....	599,083	Feb. 15	1723	409	82	965
Gate-post.....	C. A. Dohme.....	611,568	Sept. 27	2627	606	84	1998
Gate-screen. Metallic.....	A. P. Pritchard.....	607,877	July 26	2510	532	84	539
Gate suspending, opening, or closing device.....	C. S. Jenkins.....	601,257	Mar. 29	2907	662	82	1852
Gates. Opening or closing.....	W. J. Moore.....	608,702	Aug. 9	957	220	84	864
Gear.....	C. Jackson.....	597,907	Jan. 25	2498	583	82	534
Gear. Bevel.....	F. A. Kershaw.....	614,251	Nov. 15	1826	422	85	1006
Gear-case.....	H. W. Dover.....	601,505	Mar. 29	3352	759	82	1939
Gear-case.....	J. H. Hughes and J. T. Musgrove.....	606,840	July 5	388	82, 83	84	77
Gear-case.....	F. L. Minturn.....	599,005	Feb. 15	1596	379	82	940
Gear-case.....	N. A. Phillips.....	601,733	Apr. 5	214	42, 43	83	41
Gear-case.....	A. H. Pierce.....	596,616	Jan. 4	281	61	82	56
Gear case. Driving.....	W. H. Frost.....	600,911	Mar. 22	2313	527	82	1712
Gear. Chain driving.....	H. Harford.....	598,179	Feb. 1	189	44	82	638
Gear-cutter.....	F. J. Mathein.....	600,544	Mar. 15	1704	390	82	1533
Gear-cutting machine.....	W. H. Beastow.....	606,700	July 5	116	25, 26	84	25
Gear-cutting machine.....	W. G. Burnham.....	607,982	July 26	2691	573	84	574
Gear-cutting machine.....	J. H. Gibson.....	606,837	July 5	381	81	84	76
Gear-cutting machine.....	N. A. Wheeler.....	611,851	Oct. 4	456	109	85	91
Gear. Driving.....	L. S. Crandall.....	599,689	Mar. 1	22	5, 6	82	1221
Gear. Driving.....	V. E. Doremus.....	599,321	Feb. 23	2148	510	82	1066
Gear-indicating device.....	S. A. Davis.....	613,253	Nov. 1	46	11	85	626
Gear mechanism. Changeable.....	G. A. Richards.....	597,914	Jan. 25	2508	587	82	536
Gear-molding machine.....	F. Kepp and G. Mesta.....	614,813	Nov. 22	2837	653	85	1211
Gear motion-transmitting and speed-varying mechanism. Planet.....	H. P. Brown.....	603,253	May 3	17	5	83	604
Gear. Reversing.....	C. C. Dewitt.....	600,411	Mar. 8	1434	328	82	1513
Gear. Reversing.....	J. H. Hare.....	605,226	June 7	314	72	83	1411
Gear. Reversing.....	J. R. Rickard.....	596,620	Jan. 4	285	62, 63	82	57
Gear. Roller-tooth variable.....	T. Foster.....	608,851	Aug. 9	1258	293	84	918
Gear. Sprocket-and-chain.....	E. F. Morse.....	603,609	May 3	682	152	83	733
Gear-teeth. Device for generating.....	O. J. Beale.....	616,648	Dec. 27	2678	620	85	1985
Gear-teeth. Device for generating.....	O. J. Beale.....	616,649	Dec. 27	2681	621	85	1986



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Gear-teeth. Machine for forming .....	J. E. Gleason .....	605,249	June 7	356	81 82 83	83	1419
Gear-tooth .....	W. Gleason .....	612,840	Oct. 25	2247	537	85	473
Gear-tooth-cutting machine .....	J. Reece .....	607,629	July 19	2031	421	84	430
Gear-tooth-generating machine .....	H. C. Warren .....	605,982	June 21	1743	400 401	83	1721
Gear-tooth-generating machine .....	H. C. Warren .....	605,983	June 21	1747	401	83	1721
Gear. Variable-speed .....	H. Behrens .....	598,762	Feb. 8	1186	285	82	844
Gear-wheel .....	J. A. Williams .....	610,215	Sept. 6	113	25	84	1462
Gear-wheel. Split .....	J. P. Mullin .....	596,784	Jan. 4	585	135	82	112
Gears. Machine for cutting teeth on worm-toothed .....	J. Reece .....	607,627	July 19	2026	420	84	429
Gears. Method of and appliance for making .....	J. W. See .....	600,994	Mar. 22	2454	559	82	1738
Gearing .....	A. F. Bertles .....	602,298	Apr. 12	1236	272	83	248
Gearing .....	C. A. Hennicke .....	614,548	Nov. 22	2351	539	85	1120
Gearing .....	F. G. D. Holmes .....	615,704	Dec. 13	892	206	85	1601
Gearing .....	R. W. Jamieson .....	613,148	Oct. 25	2733	645	85	570
Gearing .....	H. B. Keiper .....	604,534	May 24	2418	550	83	1134
Gearing .....	H. B. Keiper .....	604,662	May 24	2633	603	83	1177
Gearing .....	H. B. Keiper .....	605,722	June 14	1211	280	83	1603
Gearing. Angle .....	R. W. Jamieson .....	596,884	Jan. 4	741	175	82	145
Gearing. Angle .....	J. H. Sager .....	602,629	Apr. 19	1792	409	83	369
Gearing. Differential .....	D. Fyfe .....	605,416	June 7	692	154	83	1486
Gearing for transmission of power .....	T. D. Hollick .....	609,809	Aug. 30	3038	711	84	1305
Gearing. Speed .....	J. R. Scofield .....	599,870	Mar. 1	376	84	82	1284
Gearing. Sprocket-chain .....	F. E. Baldwin .....	609,927	Aug. 30	3235	757	84	1344
Gearing. Transmission .....	F. Schneider .....	607,640	July 19	2048	425 426	84	434
Gearing. Variable .....	R. N. Dyer .....	611,378	Sept. 27	2275	525 526	84	1931
Gearing. Variable .....	S. J. Evans and H. H. Huggins .....	598,863	Feb. 8	1343	325	82	874
Gearing. Variable-speed .....	L. L. H. Gérard .....	610,178	Sept. 6	48	11	84	1451
Gearing wheel. Chain .....	T. Hewett .....	609,346	Aug. 16	2204	521	84	1114
Gelatin thread or filament. Insoluble .....	A. Millar .....	611,814	Oct. 4	386	92	85	77
Gem-holder .....	C. R. Bickford .....	612,813	Oct. 25	2185	519	85	462
Gem-setting .....	G. W. Dover .....	608,362	Aug. 2	348	76	84	725
Generator:							
See Acetylene - genera- tor.	Gas-generator. Gas-pressure generator.						
Current-generator.	Heat-generator.						
Electric generator.	Smoke-generator.						
Formaldehyde-gen- erator.	Steam-generator. Vapor-generator.						
Generator .....	J. O. Morris .....	596,903	Jan. 4	775	183 357	82	151
Generator and steam-engine. Combined .....	M. L. Whitfield .....	611,006	Sept. 20	1550	358	84	1775
Geometrical block .....	A. Cowles .....	600,610	Mar. 15	1805	414	82	1602
Geyers. Apparatus for producing artificial .....	J. Wister .....	600,469	Mar. 8	1543	354	82	1532
Gilders' leaf and making same .....	O. Michalk .....	597,012	Jan. 11	971	82	205	
Gilding china, earthenware, or porcelain articles .....	G. W. Tooker .....	603,296	May 3	87	83	618	
Gilding-tool .....	W. H. Coe .....	608,106	July 26	2915	624	84	620
Gin-brush .....	E. Y. Reese .....	609,464	Aug. 23	2417	567	84	1173
Gin-saw filer .....	D. M. Wilson .....	601,191	Mar. 22	2779	636	82	1800
Gin-saw-filing machine .....	J. H. and W. H. Walters .....	603,302	May 3	96	24	83	620
Gin-saw sharpener .....	G. W. Taylor .....	600,458	Mar. 8	1522	349	82	1528
Girder. Sheet or plate .....	C. B. Sill .....	602,274	Apr. 12	1189	261	83	239
Glass:							
See Cheval-glass.	Graduate-glass.						
Field or opera glass.							
Glass. Adjustable table for etching .....	S. Puchner and K. Schubert .....	600,888	Mar. 22	2280	519 520	82	1706
Glass and apparatus therefor. Production of cor- rugated sheet-	W. L. Pilkington .....	608,905	Aug. 9	1333	311	84	933
Glass-annealing leer .....	J. H. Lubbers .....	602,031	Apr. 5	768	165 166	83	145
Glass-annealing leer or kiln .....	A. D. Brogan, A. M. Malloch, and J. Craig .....	614,199	Nov. 15	1700	390 391	85	984
Glass. Apparatus for making sheet .....	F. Vitte, Sr .....	600,463	Mar. 8	1535	352	82	1531
Glass articles. Cooling .....	W. F. Altenbaugh .....	599,887	Mar. 1	404	90	82	1290
Glass articles. Machine-mold for use in blowing .....	J. Morell and J. B. Kopp .....	615,088	Nov. 29	3385	775 776	85	1331
Glass articles. Reheating and finishing machine) for	W. Kay and J. C. Adams .....	608,427	Aug. 2	468	105 106	84	748
Glass, &c. Automatic mold for pieces in .....	P. Delorme, Jr .....	608,141	July 26	2969	637	84	631
Glass-beveling machine .....	M. Johannet .....	614,811	Nov. 22	2834	652	85	1210
Glass-blowing machine .....	F. C. Ball .....	610,515	Sept. 6	702	158 159	84	1574
Glass-blowing machine .....	A. L. Bingham .....	608,022	July 26	2781	592 593	84	594
Glass-blowing machine .....	L. H. Dolan .....	611,612	Oct. 4	32	7 8 329	85	9
Glass-blowing machine .....	M. J. Owens. (Reissue) .....	11,668	June 14	1437	230 231	83	1645
Glass-blowing machine .....	H. C. Schrader .....	610,589	Sept. 13	832	191	84	1616
Glass-blowing machine. Paste-mold .....	J. C. Triance .....	611,157	Sept. 20	1831	422	84	1829
Glass. Composition of matter for manufacturing .....	C. G. Van Fleet .....	607,003	July 5	656	84	130	
Glass. Compound for treating .....	H. Marangolo .....	597,806	Jan. 25	2337	82	504	
Glass cutter. Window .....	C. J. Meissner and F. Koenig .....	599,620	Feb. 22	2726	637	82	1178
Glass cutting-off or severing machine .....	H. C. Schrader .....	610,588	Sept. 13	829	190	84	1615
Glass cylinders. Apparatus for manufacturing .....	A. Humphrey .....	614,615	Nov. 22	2487	568	85	1143
Glass-engraving machine .....	H. C. Schrader .....	612,978	Oct. 25	2467	589	85	517
Glass-finishing machine .....	I. N. Pearson .....	611,042	Sept. 20	1610	369	84	1786
Glass-finishing machine .....	A. J. Sanford and W. A. Ingler .....	613,319	Nov. 1	172	38, 39	85	650
Glass-furnaces. Means for keeping glass clear in regenerative	G. Schluder .....	602,111	Apr. 12	902	195	83	183
Glass-gathering machine .....	E. H. Jewett .....	605,493	June 14	732	180	83	1524



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Glass. Grinding, smoothing, and polishing .....	E. Bagnall .....	613,227	Nov. 1	3	1	85	617
Glass-holder .....	J. Kirby, Jr. ....	608,610	Aug. 9	788	181	84	830
Glass. Machine for and method of rolling wired ..	E. Walsh, Jr. ....	610,593	Sept. 13	841	192 193	84	1618
Glass. Machine for rolling wire .....	C. C. Hartung .....	610,586	Sept. 13	824	189	84	1614
Glass-melting furnace .....	C. F. Cox .....	612,233	Oct. 11	1130	271	85	231
Glass. Method of and apparatus for rolling plate ..	C. C. Hartung .....	602,447	Apr. 19	1487	339	83	312
Glass-mold .....	J. W. Kunzler .....	599,939	Mar. 1	498	112	82	1307
Glass-mold .....	H. L. Reinhardt .....	605,133	June 7	112	28 29 30	83	1373
Glass-mold .....	C. Z. F. Rott and T. C. Steiner .....	615,910	Dec. 13	1242	291	85	1667
Glass-mold cooling-table .....	W. Haley .....	602,399	Apr. 12	1405	316 317	83	283
Glass-molding apparatus .....	C. A. Tatum .....	612,465	Oct. 18	1542	370	85	320
Glass. Ornamenting .....	C. P. Dorpols .....	615,479	Dec. 6	492	85	1507	
Glass. Ornamenting .....	E. J. Lutwyche .....	599,716	Mar. 1	69	16	82	1229
Glass pipe. Process of and apparatus for annealing ..	J. W. Bonta .....	614,529	Nov. 22	2324	533	85	1114
Glass-polishing machine .....	P. Semmer .....	613,532	Nov. 1	569	129 130	85	724
Glass-polishing machine. Plate .....	R. Friske and F. Kasparek .....	613,984	Nov. 8	1338	303 304	85	893
Glass-press .....	W. Haley .....	616,664	Dec. 27	2715	630 631	85	1993
Glass-press .....	R. G. Hemingray .....	614,303	Nov. 15	1904	440	85	1022
Glass-press .....	G. Henning .....	598,930	Feb. 15	1466	350	82	914
Glass-press .....	G. B. Lamb .....	608,204	Aug. 2	67	18	84	668
Glass-press .....	J. Riling .....	612,140	Oct. 11	970	235	85	200
Glass-pressing machine .....	W. Feters .....	602,636	Apr. 19	1809	412 413	83	372
Glass. Process of and apparatus for drawing .....	A. A. Houghton. (Reissue) .....	11,702	Nov. 22	2845	655	85	1213
Glass. Process of and machine for embedding wire in	F. Shuman .....	605,754	June 14	1261	291	83	1613
Glass-spreading furnaces. Safety device for use in.	J. B. Fondu .....	597,818	Jan. 25	2352	549 550	82	507
Glass tubes. Machine for grinding .....	T. W. Van Hoesen .....	601,720	Apr. 5	191	37	83	38
Glass tubes. Mold for making .....	W. H. Stanton .....	613,089	Oct. 25	2651	626	85	554
Glass vessels. Apparatus for finishing necks of ..	E. Hoffman .....	611,631	Oct. 4	65	16	85	15
Glass with metallic netting embedded therein. Manufacture of	L. Appert .....	608,096	July 26	2899	621	84	618
Glass-worker's tool .....	L. Friedrich .....	606,200	June 28	2153	494	83	1816
Glass-working machinery .....	T. R. Micheals .....	616,245	Dec. 20	1922	445	85	1819
Glassware-annealing apparatus .....	W. Buttler .....	602,677	Apr. 19	1889	430	83	388
Glassware articles. Apparatus for making .....	C. N. Brady .....	608,828	Aug. 9	1210	282	84	908
Glassware articles. Apparatus for manufacturing ..	C. E. Schmunk .....	604,908	May 31	3076	706 707	83	1280
Glassware-finishing machine .....	W. F. Altenbaugh .....	599,822	Mar. 1	283	63, 64	82	1266
Glassware-finishing machine .....	P. J. McDonough and T. E. Shelly .....	601,898	Apr. 5	531	110	83	100
Glassware. Manufacture of .....	G. W. Blair .....	604,959	May 31	3145	723	83	1294
Glassware. Manufacture of .....	D. C. Ripley .....	609,704	Aug. 23	2865	670	84	1258
Glassware-manufacturing apparatus .....	T. Coleman, Jr. ....	615,608	Dec. 6	720	166	85	1554
Glassware-manufacturing apparatus .....	T. Coleman, Jr., C. Runyon, and F. Zahn. ....	608,754	Aug. 9	1043	239 240	84	880
Glassware-manufacturing apparatus .....	C. E. Schmunk .....	604,907	May 31	3070	705 706	83	1279
Glassware-manufacturing machine .....	F. O'Neill .....	605,648	June 14	1083	249 250	83	1579
Glassware-manufacturing machine .....	F. O'Neill .....	616,251	Dec. 20	1931	447	85	1821
Glassware-molding press .....	W. F. Altenbaugh .....	601,491	Mar. 29	3326	752 753	82	1933
Glassware. Press for making articles of .....	W. A. Henry and C. N. Brady .....	603,952	May 10	1280	291	83	865
Glazier's metallic strip .....	J. Sullivan .....	607,094	July 12	870	188	84	187
Glaziers' points. Machine for making and driving ..	J. S. Carter .....	616,603	Dec. 27	2580	598	85	1966
Glazing-tub .....	H. Blackwell .....	597,835	Jan. 25	2384	555	82	514
Globe-holder .....	C. Ayres .....	613,107	Oct. 25	2673	632	85	558
Globe-holder .....	F. M. Greenup .....	615,845	Dec. 13	1135	265	85	1647
Globe-holder. Spring-ring .....	A. Feser .....	614,164	Nov. 15	1644	377	85	974
Glove .....	G. B. Forney .....	598,774	Feb. 8	1206	293	82	848
Glove .....	H. L. Heath .....	611,250	Sept. 27	2010	463	84	1882
Glove .....	M. Murray .....	605,505	June 14	819	190	83	1531
Glove .....	R. Rue .....	613,847	Nov. 8	1111	253	85	848
Glove .....	L. A. Van Praag .....	606,399	June 28	2546	590	83	1892
Glove. Base-ball .....	B. F. Shibe .....	613,945	Nov. 8	1273	288	85	879
Glove. Boxing .....	H. B. Frazier .....	600,779	Mar. 15	2090	479	82	1657
Glove. Boxing .....	W. G. Wood .....	608,434	Aug. 2	479	108	84	750
Glove-case .....	S. Bodwell .....	615,790	Dec. 13	1051	247	85	1631
Glove-drier .....	J. W. Hull .....	606,628	June 28	2958	686	83	1974
Glove-fastener .....	C. A. Pfenning .....	603,202	Apr. 26	2784	634 635	83	573
Glove-fastener .....	J. Steinberger .....	609,918	Aug. 30	3223	755	84	1342
Glove-fastener .....	J. V. Washburne .....	603,303	May 3	99	24	83	620
Glove-fasteners to garments. Machine for attaching	E. Flagg .....	608,978	Aug. 9	1487	351	84	961
Glove-fastening device .....	W. B. Murphy .....	614,817	Nov. 22	2843	655	85	1212
Glove-stretcher .....	G. Havell .....	599,295	Feb. 15	2080	493	82	1030
Gloves, &c. Fastener for .....	W. S. Richardson .....	605,833	June 14	1432	329	83	1644
Gloves, &c. Fastener for .....	M. Wertheimer .....	597,132	Jan. 11	1186	278	82	247
Glue-jointing machine .....	R. M. Gleason, E. J. Jackboice, and A. H. Waterson. ....	601,956	Apr. 5	653	137	83	123
Glue pieces. Disintegrating-machine for .....	C. F. Wurmbach .....	609,489	Aug. 23	2476	578	84	1184
Glue-spreading machine .....	E. F. Compton .....	603,075	Apr. 26	2572	584	83	532
Gluing-machine .....	W. Munch .....	598,616	Feb. 8	935	224 225	82	799
Glycerin from tank-water. Recovering .....	D. Cameron and D. S. Carraway .....	602,725	Apr. 19	1964	83	403	
Glycerol ether of aromatic compounds .....	H. Endemann .....	599,123	Feb. 15	1792	82	977	
Goblet, &c. Drinking .....	E. C. Jones, Jr. ....	600,427	Mar. 8	1460	393	82	1517



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Gold and ore separator	W. Gray	609,540	Aug. 23	2556	598	84	1198
Gold and silver from ores, &c. Apparatus for extracting	J. S. MacArthur and J. Yates	600,266	Mar. 8	1210	274 275	82	1470
Gold and silver. Apparatus for electrodeposition of.	E. Andreoli	598,193	Feb. 1	213	49	82	643
Gold and silver from auriferous and argentiferous materials. Obtaining	N. S. Keith	597,820	Jan. 25	2354	551	82	507
Gold. Apparatus for recovering fine	E. L. Weed	599,819	Mar. 1	279	63	82	1266
Gold-bearing sand. Apparatus for concentrating.	A. McDougall	604,627	May 24	2576	587 588	83	1166
Gold-collecting plates. Composition of matter for.	C. E. Greene	597,113	Jan. 11	1154	272	82	241
Gold-extracting machinery	S. P. Moody	601,212	Mar. 22	2813	643	82	1807
Gold flakes from sand. Machine for separating fine.	J. N. Marion	604,566	May 24	2481	565	83	1147
Gold, &c., from dry-crushed ores. Apparatus for extracting	E. L. Oppermann	596,535	Jan. 4	130	29	82	27
Gold from its ores. Method of and apparatus for extracting	E. W. von Siemens	601,068	Mar. 22	2574	587	82	1762
Gold from ores. Process of and apparatus for extracting	B. C. Hinman	611,998	Oct. 4	708	171	85	139
Gold from refractory ores. Composition for extracting	A. G. Stephens	602,526	Apr. 19	1615		83	337
Gold from waste solutions of chlorination-works. Recovery of	J. W. Pack	606,810	July 5	330	69	84	66
Gold-leaf. Device for laying	R. E. Hastings	602,985	Apr. 26	2422	552	83	505
Gold-leaf. Device for laying	R. E. Hastings	602,986	Apr. 26	2424	552	83	505
Gold-leaf. Paste composition for saving	F. H. Lewis	616,791	Dec. 27	2942		85	2039
Gold-leaf. Tool for laying	J. C. F. Kunkle	602,948	Apr. 26	2364	539	83	494
Gold-leaf. Tool for laying	J. C. F. Kunkle	602,949	Apr. 26	2365	539 540	83	495
Gold-plate for crown or bridge work. Device for swaging	W. H. Baird	600,604	Mar. 15	1799	412	82	1601
Gold saver. Flour-	B. Chaloner and E. E. Lichtenberger	604,653	May 24	2620	599	83	1174
Gold-saving apparatus	W. Morton	610,410	Sept. 6	515	112	84	1537
Gold-separating machine	W. A. Darling	608,841	Aug. 9	1237	288	84	914
Gold-separating machine	A. F. Perks	603,794	May 10	995	222 223	83	810
Gold-separating machine	B. W. Sweet	602,113	Apr. 12	906	196 197	83	184
Gold-separator	A. T. Fox	615,153	Nov. 29	3499	804	85	1354
Gold-separator	W. H. Fulcher and S. E. Latta	600,579	Mar. 15	1761	402	82	1593
Gold-separator	W. E. Harris	613,143	Oct. 25	2728	644	85	569
Gold-separator	J. M. Wishart	597,450	Jan. 18	1731	400	82	370
Gold, &c. Sizing-machine for	W. Gray	607,564	July 19	1911	395	84	407
Gold-washer	C. Grimes	604,980	May 31	3179	732	83	1301
Gold-washer	C. Grimes	612,034	Oct. 11	791	195	85	165
Gold-washer	G. W. Newberry	613,172	Oct. 25	2770	653	85	578
Gold-washing apparatus	G. H. Chick	613,494	Nov. 1	512	116	85	713
Golf-playing apparatus	W. H. White	610,336	Sept. 6	377	80	84	1512
Governing device	A. Fischer	611,619	Oct. 4	42	10	81	11
Governing device for preventing racing in engines	F. W. Reynolds, Jr.	614,346	Nov. 15	1993	460	85	1039
Governing, reversing, and breaking controller	T. von Zweigbergk	611,088	Sept. 20	1699	391 392	84	1804
Governor	W. E. Brown	616,399	Dec. 20	2200	514	85	1874
Governor	W. W. Dingee	615,144	Nov. 29	3479	797 798	85	1350
Governor	C. O. Heggem	603,039	Apr. 26	2505	568	83	520
Governor	V. E. Hunter	614,388	Nov. 15	2071	477	85	1054
Governor	A. B. Ireland	603,363	May 3	203	46	83	640
Governor	F. W. Spacke	605,684	June 14	1148	266 267	83	1591
Governor. Automatic friction-	C. Moore and P. S. West	600,497	Mar. 8	1614	369	82	1547
Governor cut-off for steam-engines	M. O. Arnegaard	596,565	Jan. 4	184	41, 42	82	37
Governor. Electrical	M. A. Replogle	604,544	May 24	2436	553	83	1137
Governor. Engine	F. H. and B. C. Ball	601,009	Mar. 22	2483	564	82	1743
Governor. Engine	C. M. Giddings	603,829	May 10	1072	240	83	824
Governor. Engine	G. E. Hunsinger	601,076	Mar. 22	2584	589	82	1764
Governor. Engine	J. V. Rice, Jr.	607,647	July 19	2064	430 431	84	436
Governor. Engine	E. Thunderbolt	610,250	Sept. 6	195	44	84	1480
Governor. Explosive-engine	H. P. Maxim	606,425	June 28	2604	600	83	1905
Governor. Fluid-motor	E. F. Williams	605,241	June 7	338	78	83	1415
Governor for steam-engines or other motors	E. C. Knapp	603,193	Apr. 26	2772	632	83	571
Governor. Gas-engine	R. Willetts	601,190	Mar. 22	2777	636	82	1800
Governor. Marine	J. T. Austin	613,875	Nov. 8	1165	267	85	859
Governor mechanism	J. W. Smith and A. H. Anthony	604,798	May 31	2884	659	83	1244
Governor. Motor	T. A. Edison	604,740	May 31	2791	638 639	83	1225
Governor. Motor	M. E. Hershey and B. T. Allen	603,189	Apr. 26	2765	630 631	83	570
Governor. Steam-engine	G. H. Firth	611,729	Oct. 4	249	60	85	51
Governor. Steam-engine	W. H. Gunther	602,578	Apr. 19	1699	386 387	83	351
Governor. Steam-engine	W. H. Gunther	602,579	Apr. 19	1701	387	83	352
Governor. Steam-engine	E. B. Thorburn	612,443	Oct. 18	1503	362	85	313
Grab or automatic hoisting-bucket	J. Campbell	616,287	Dec. 20	1991	463 464	85	1833
Grade-delineator	J. Riddell	610,747	Sept. 13	1080	248	84	1667
Grader and scraper	C. Karraker	609,679	Aug. 23	2826	660	84	1251
Grader, ditcher, and road and levee builder	S. W. Wible	612,579	Oct. 18	1740	412	85	357
Grader. Road-	H. K. Leedham	603,220	Apr. 26	2811	642	83	578
Grading and ditching machine	C. F. Hinman	606,216	June 28	2187	504 505 506	83	1822
Grading-machine	D. D. Drummond	600,999	Mar. 22	2461	560 561	82	1739
Grading machine. Road-	J. V. Maxey	610,550	Sept. 13	764	174	84	1601
Graduate-glass	C. W. Barnekov	598,891	Feb. 15	1393	336	82	901



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Grain and seed separator	F. and M. Eves	598,984	Feb. 15	1563	371 372	82	933
Grain. Apparatus and building for unloading and storing	G. S. Foster	602,502	Apr. 19	1571	359	83	329
Grain-bagging machine	J. W. Henry and A. Gunn	611,121	Sept. 20	1766	405 406	84	1816
Grain-bin	O. Hoff	614,549	Nov. 22	2352	539	85	1120
Grain-binder	E. W. Burgess	602,028	Apr. 5	763	164	83	144
Grain-binder	P. Hanson	602,445	Apr. 19	1482	338	83	311
Grain-binder	P. Hanson	614,466	Nov. 22	2218	510	85	1095
Grain-binder	P. Hanson	614,467	Nov. 22	2225	511 512	85	1097
Grain-binder	A. McGregor	613,214	Oct. 25	2869	677	85	596
Grain-binder	H. E. Pridmore	601,609	Mar. 29	3510	800 801	82	1970
Grain-binder	C. S. Sharp	598,019	Jan. 25	2694	628 629	82	572
Grain-binder butt-adjuster	J. Macphail	596,603	Jan. 4	258	57	82	51
Grain-binder cord-knotter	P. P. Coler	604,022	May 17	1456	326	83	934
Grain-binder deck	S. K. Dennis	611,776	Oct. 4	317	76	85	64
Grain-binder knot-tying device	C. S. Sharp	609,522	Aug. 23	2524	590 591	84	1193
Grain-binder knotter	S. K. Dennis	611,775	Oct. 4	313	75, 76	85	64
Grain-binder knotter	S. K. Dennis	615,815	Dec. 13	1089	256	85	1639
Grain-binder sheaf-carrier	C. S. Sharp	598,020	Jan. 25	2696	629 630	82	572
Grain-binder tension device	F. J. Dvork	596,580	Jan. 4	212	47	82	42
Grain-carrier	A. E. Deweese	604,822	May 31	2915	667	83	1249
Grain cleaning and scalping machine	B. G. Royal	604,702	May 24	2717	621	83	1193
Grain-conveyer	K. Hurliman	599,785	Mar. 1	191	48	82	1251
Grain-conveyer driving mechanism	J. O. Morgan	608,263	Aug. 2	159	39	84	685
Grain-drier	W. E. Ellis	596,655	Jan. 4	350	76, 77	82	69
Grain-drier	W. E. Ellis	596,964	Jan. 4	887	209	82	173
Grain-drier	O. Meinshausen	613,382	Nov. 1	298	69	85	674
Grain-drill	H. B. Cease	612,602	Oct. 18	1777	419 420	85	364
Grain-drill	E. J. Corser	604,024	May 17	1459	327	83	934
Grain-drill	B. F. Hafer	612,721	Oct. 18	2002	475	85	407
Grain-drill	S. H. Jones and J. A. Carr	611,912	Oct. 4	552	135	85	110
Grain-drill	P. P. Mast	615,727	Dec. 13	933	217	85	1608
Grain-drill	J. F. Montgomery and W. T. Berry	605,322	June 7	502	111	83	1448
Grain-drill	B. T. Spelman	605,524	June 14	845	198	83	1535
Grain-drill	J. I. Stamper	607,964	July 26	2658	567	84	567
Grain-drill	J. Travis, Jr	611,582	Sept. 27	2660	612 613	84	2003
Grain-drill seed attachment	H. N. Patterson	608,073	July 26	2863	612	84	611
Grain-drill shoe	T. Brennan and E. Christman	613,115	Oct. 25	2684	635	85	560
Grain-dropper spout	D. A. Smith	611,980	Oct. 4	667	162	85	130
Grain-dump. Portable	W. B. Leonard	615,862	Dec. 13	1160	271	85	1652
Grain-elevator	J. W. Stark and G. N. Doyle	611,044	Sept. 20	1615	370	84	1787
Grain elevator and conveyer spout	D. S. Lee and F. C. Stuckel	600,835	Mar. 15	2182	497	82	1674
Grain-elevator. Pneumatic	J. Brogan	606,885	July 5	458	98	84	90
Grain-elevator. Portable	I. A. Milton	601,582	Mar. 29	3469	789 790	82	1963
Grain-elevator. Portable	T. F. Schmitt	602,776	Apr. 19	2046	463	83	418
Grain feeder and conveyer	B. S. Constant	608,180	Aug. 2	20	5, 6	84	658
Grain from threshing-machines into wagons or sacks. Machine for loading	J. Heyrock	603,641	May 10	736	164	83	759
Grain, hay, and stock rack. Combined	E. McKim	602,093	Apr. 12	872	189	83	177
Grain, &c. Method of and means for delivering pneumatically-conveyed	F. E. Duckham	611,569	Sept. 27	2629	606	84	1998
Grain-pearling machine	J. C. Holloway	615,177	Nov. 29	3541	814	85	1362
Grain-polishing apparatus	F. H. Schule	605,922	June 21	1625	373	83	1699
Grain-scourer	C. Stone	603,294	May 3	84	21	83	617
Grain self-binders. Elevator for	J. J. Guidinger	597,847	Jan. 25	2404	559	82	517
Grain-separating machine	C. E. Culver	610,432	Sept. 6	548	120	84	1543
Grain-separator	J. F. Koch	605,437	June 7	718	161	83	1491
Grain-separator	J. B. McCutcheon	607,699	July 19	2152	453	84	452
Grain-separator	G. W. Richardson	609,212	Aug. 16	1955	463 464	84	1063
Grain separator and cleaner	E. L. Fixler	609,091	Aug. 16	1716	408 409	84	1019
Grain-separator. Centrifugal	F. F. Landis. (Reissue)	11,680	July 19	2371	502 503	84	496
Grain-separator timothy-cleaning attachment	E. G. Clymans	597,459	Jan. 18	1746	403	82	373
Grain-shocking machine	G. S. Bingham	597,703	Jan. 25	2153	504	82	469
Grain-shocking machine	W. Russell	611,283	Sept. 27	2089	481 482	84	1897
Grain-spout	A. D. Bellinger	605,375	June 7	612	137	83	1469
Grain-treating apparatus	G. R. Gorham	604,880	May 31	3021	693 694	83	1270
Grain-tank-emptying device. Pneumatic	F. J. Weber	615,328	Dec. 6	185	46, 47	85	1449
Grain-washing apparatus	A. Bergmüller	598,495	Feb. 8	727	175	82	757
Grains, &c. Drum for glazing	F. H. Schule	605,923	June 21	1626	373	83	1700
Graining	J. J. Callow	605,244	June 7	347	80	83	1417
Graining machine. Lumber	H. Silver	601,908	Apr. 5	550	113 114	83	104
Gramophone	A. C. Clark	597,875	Jan. 25	2447	571 572	82	525
Gramophone and actuating device therefor	E. R. Johnson	601,198	Mar. 22	2789	638	82	1802
Gramophone-needle	J. W. Jones	602,453	Apr. 19	1497	341	83	314
Granulating-disk	H. and G. Rose	605,452	June 7	740	168	83	1495
Graphite. Manufacturing	H. H. Wing	598,549	Feb. 8	822	197	82	776
Graphophone-tablets. Manufacture of	T. H. Macdonald	606,725	July 5	161	36	84	33
Grapple, bucket, &c	J. H. Lancaster	605,489	June 14	797	183 184	83	1526



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Grapple. Log-lifting	A. Paulson	607,571	July 19	1924	398	84	410
Grappling device	J. E. Davison	597,668	Jan. 18	2087	489	82	440
Grappling-hook	T. David	605,221	June 7	308	70	83	1410
Grass-burning device	G. M. Slaughter and F. Christian	599,872	Mar. 1	379	85	82	1284
Grass-clipping device	J. McCallum	603,919	May 10	1232	279 280	83	855
Grass or similar growths. Liquid for exterminating.	W. A. Chapman	606,644	July 5	14		84	5
Grate	W. Edgar	610,674	Sept. 13	962	222	84	1643
Grate	C. Fuller	604,143	May 17	1680	377	83	976
Grate	R. A. May	610,551	Sept. 13	766	174 175	84	1602
Grate	W. McClave	607,784	July 19	2290	483 484	84	479
Grate	D. J. McKenzie	610,687	Sept. 13	979	227 228	84	1647
Grate	D. Norton and S. Neemes	608,215	Aug. 2	86	23	84	672
Grate	F. Wandel	616,595	Dec. 27	2561	593	85	1963
Grate and furnace	J. C. Burneson and O. G. Richey	596,570	Jan. 4	192	43	82	39
Grate-bar	A. A. Richardson	611,440	Sept. 27	2393	549	84	1951
Grate-bar and furnace	G. L. K. Morrow	602,642	Apr. 19	1817	414 415	83	373
Grate-bar hanger and connections	H. A. Tinkham	607,969	July 26	2667	569 570	84	569
Grate-bar. Hollow	M. A. Miller	613,289	Nov. 1	118	28	85	639
Grate. Fire-	H. E. O. Siegert	600,970	Mar. 22	2404	548 549	82	1729
Grate. Fireplace-	S. L. Cook	604,969	May 31	3160	727	83	1297
Grate fire-support	W. H. Hallowell	599,075	Feb. 15	1715	407	82	964
Grate. Shaking-	G. E. Frank	601,374	Mar. 29	3123	705	82	1894
Grate. Shaking-	G. A. Gumphert	600,493	Mar. 8	1602	366 367 368	82	1545
Grates. Chopper or agitator for shaking-	J. Reagan	598,392	Feb. 1	547	123	82	706
Grater	W. J. Curry	611,447	Sept. 27	2401	551	84	1953
Grater	D. C. Powell	602,628	Apr. 19	1791	409	83	369
Grater. Nutmeg-	J. W. Hart	604,751	May 31	2810	642	83	1229
Grating. Illuminating-	J. Jacobs	596,881	Jan. 4	739	174	82	144
Grating. Illuminating-	J. Jacobs	596,882	Jan. 4	740	174	82	145
Grating. Illuminating-	J. Jacobs	596,883	Jan. 4	741	174	82	145
Grating-machine	A. B. Hostetter	608,604	Aug. 9	780	177	84	829
Gravel from frozen ground. Apparatus for removing	R. H. Pinkham	605,512	June 14	827	192	83	1532
Gravity-fan furnace	W. F. Shiley	596,916	Jan. 4	799	189	82	156
Grease-trap for sinks, baths, &c	H. Sieben	599,663	Feb. 22	2820	655	82	1197
Greenhouse-gutter	G. M. Garland	616,781	Dec. 27	2919	679	85	2034
Greenhouse-shade	J. R. Paul and J. Kirkwood	597,562	Jan. 18	1903	444	82	405
Grinder	H. Lindemann	602,860	Apr. 26	2204	499	83	464
Grinder. Blade-	E. B. Allen	598,333	Feb. 1	458	109	82	688
Grinder. Drill-	G. T. Eames	614,092	Nov. 15	1517	347 348	85	950
Grinder. Lawn-mower-	W. W. Boughner	606,117	June 21	2003	459	83	1769
Grinder. Portable roller-	F. W. Wright	616,597	Dec. 27	2563	594	85	1963
Grinder. Twist-drill	W. Eames	613,127	Oct. 25	2703	639	85	565
Grinding, abrading, or cutting material and preparing same.	A. V. Ringström	604,569	May 24	2486	566	83	1148
Grinding and polishing device	G. H. Dyer	602,213	Apr. 12	1090	239	83	219
Grinding and polishing machine	G. H. Hathorn	607,368	July 12	1367	292	84	281
Grinding and polishing machine	G. H. Hathorn	607,369	July 12	1369	292 293	84	282
Grinding and polishing steel balls. Machinery for.	W. Woolf, A. Brown, and J. R. Rickard.	604,594	May 24	2524	574 575	83	1155
Grinding and pulverizing apparatus. Sample	J. A. McClurg	603,405	May 3	278	62	83	653
Grinding and pulverizing machine	J. Pöttgens	611,867	Oct. 4	480	116	85	96
Grinding apparatus. Reversible	T. R. Almond	601,391	Mar. 29	3160	714	82	1900
Grinding apparatus. Sickle-	E. Beaudette and L. Miller	598,843	Feb. 8	1307	317	82	868
Grinding cast-steel balls. Machine for	C. R. Kappler and F. Schunk	610,059	Aug. 30	3480	807	84	1392
Grinding cup and cone bearings. Machine for	F. A. Kershaw	614,249	Nov. 15	1822	420 421	85	1006
Grinding-machine	A. R. Clizbe	611,893	Oct. 4	520	126	85	103
Grinding-machine	G. G. Crowley	611,834	Oct. 4	423	101	85	84
Grinding-machine	G. G. Crowley	611,835	Oct. 4	426	102	85	85
Grinding-machine	E. T. Goodhew and H. Goldsmith	614,247	Nov. 15	1817	419 420	85	1005
Grinding-machine	J. E. Harvey	608,285	Aug. 2	201	47	84	695
Grinding-machine	A. Johnston	611,323	Sept. 27	2160	499 500	84	1910
Grinding-machine	C. H. Norton	613,934	Nov. 8	1252	285	85	873
Grinding-machine	C. F. Tebbetts	597,033	Jan. 11	1003	236	82	211
Grinding-machine. Automatic ball-	D. E. Kempster	611,968	Oct. 4	642	157	85	125
Grinding-machine. Automatic ball-	F. W. Rodd	598,536	Feb. 8	801	192	82	772
Grinding machine. Ball-	G. H. Hathorn	598,510	Feb. 8	754	182	82	763
Grinding machine. Ball-	D. Hunt and W. Haddow	611,842	Oct. 4	435	104	85	87
Grinding machine. Ball-	R. and L. F. Schulze	602,365	Apr. 12	1340	299	83	270
Grinding machine. Ball-	R. H. White	609,218	Aug. 16	1965	467	84	1065
Grinding machine. Ball-	R. H. White	609,219	Aug. 16	1967	467	84	1065
Grinding machine. Ball-	R. H. White	609,221	Aug. 16	1973	468 469 732	84	1067
Grinding machine. Cutlery-	W. C. Lambert	601,443	Mar. 29	3248	733 734 735	82	1917
Grinding machine. Razor-	H. Wolferts	600,470	Mar. 8	1544	355 356	82	1533
Grinding machine. Twist-drill-	O. S. Walker	607,306	July 12	1258	268	84	260
Grinding or polishing machine shield	L. J. Sevison	596,762	Jan. 4	548	125	82	105
Grinding-mill	T. Cascaden, Jr.	604,353	May 31	2969	681	83	1259



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Grinding-mill	J. W. Cunningham	615,811	Dec. 13	1081	253 254	85	1637
Grinding-mill	H. Kelly	612,776	Oct. 18	2104	499	85	426
Grinding-mill	J. G. Mole	603,064	Apr. 26	2545	578	83	527
Grinding-mill	F. Stille	603,516	May 3	509	111	83	699
Grinding-mill	J. F. Winchell	610,729	Sept. 13	1056	242	84	1662
Grinding-mill	J. C. Woodcock	610,220	Sept. 6	148	33	84	1471
Grinding-mill. Double equalizing.	A. W. Straub	608,085	July 26	2880	616 617	84	614
Grinding-rolls. Adjustable feed for.	E. C. Kruse	601,572	Mar. 29	3450	784	82	1959
Grinding round objects. Apparatus for	C. A. and O. W. Hult	615,390	Dec. 6	329	77	85	1476
Grindstone	D. Shannon	611,946	Oct. 4	613	149	85	120
Grip. Hand-	A. R. Wiens and G. J. Brands	604,706	May 24	2724	622	83	1194
Grip or handle. Pneumatic	A. W. King	599,131	Feb. 15	1806	430	82	980
Gripping apparatus	A. E. Stirekler	608,012	July 26	2764	587	84	591
Gripping device	E. A. Thomforde	605,454	June 7	743	169	83	1496
Gripping mechanism	A. C. Dinkey	604,973	May 31	3165	728	83	1298
Gripping mechanism	W. Düsedau	611,570	Sept. 27	2630	606 607	84	1998
Grist-mill	J. R. Jones	616,469	Dec. 27	2344	544 545	85	1924
Grist-mills. Feed for top rolls of	J. F. Himes	602,754	Apr. 19	2010	455	83	411
Grocery-can and self-setting animal-trap. Combined	H. F. M. Lahann	616,119	Dec. 20	1661	388	85	1766
Groove-cutting machine. Oil-	A. H. Morton	596,528	Jan. 4	115	26, 27	82	24
Grubber. Sage-brush	C. E. Alvord	610,296	Sept. 6	302	65	84	1500
Grubber. Sage-brush	C. E. Alvord	610,375	Sept. 6	452	99	84	1525
Grubbing-fork	G. E. Dutton	596,579	Jan. 4	211	46	82	42
Grubbing-machine	W. H. Spanier	614,510	Nov. 22	2300	527	85	1109
Grubbing-machine	W. C. F. Zimmerman	615,945	Dec. 13	1324	309	85	1682
Guano-distributer	J. McLarty	612,751	Oct. 18	2054	487	85	418
Guano-distributer	Z. McVay	601,160	Mar. 22	2714	624 625	82	1789
Gudgeon	G. E. Sande	614,989	Nov. 29	3197	735	85	1298
Gudgeons to rollers. Machine for applying	G. W. Packer	615,888	Dec. 13	1200	281	85	1660
Guiding device	H. A. Tillinghast	609,059	Aug. 16	1664	396	84	1010
Guillotine for fowls. Hand-	J. H. Stevenson	610,591	Sept. 13	839	192	84	1617
Guitar	P. Benson	608,279	Aug. 2	187	45	84	692
Guitar	G. C. Ward	613,540	Nov. 1	582	133 134	85	726
Guitar or like instrument	C. M. Borcur	601,071	Mar. 22	2578	588	82	1763
Gum box. Chewing-	E. H. Lunken	599,945	Mar. 1	506	114	82	1309
Gum receptacle. Chewing-	C. W. Harding	603,949	May 10	1277	290	83	865
Gun. Air-	E. E. Bailey and T. A. Monk	603,549	May 3	566	125	83	710
Gun-barrel-cleaning device	H. W. Egli	602,937	Apr. 26	2347	536	83	491
Gun-barrel-drilling machine	W. Mason	596,782	Jan. 4	578	133 134 135	82	111
Gun-barrel locking device	V. Solodovnikoff	604,273	May 17	1920	429 430	83	1023
Gun. Box-magazine lever-	T. C. Johnson	609,678	Aug. 23	2823	659	84	1250
Gun. Cane	E. H. Ericson	610,675	Sept. 13	963	223	84	1643
Gun-carriage	W. H. Bevans	605,376	June 7	613	137 138	83	1469
Gun-carriage	A. Resow	616,687	Dec. 27	2757	640 641	85	2001
Gun-carriage recoil-check. Field-	C. Röstel	597,126	Jan. 11	1179	276 277	82	246
Guncotton. Making	C. Quinan	597,565	Jan. 18	1907		82	405
Gun. Gas-operated	L. V. Benét	606,115	June 21	2000	459	83	1768
Gun. Gas-operated	W. E. Simpson	598,822	Feb. 8	1274	309	82	862
Gun-lock	H. E. Schlegelmilch	609,169	Aug. 16	1872	446	84	1046
Gun-lock safety attachment	P. M. Wood	608,742	Aug. 9	1026	235	84	876
Gun. Magazine-	M. C. Lisle	609,445	Aug. 23	2375	560	84	1165
Gun. Magazine bolt-	J. H. Blake	608,023	July 26	2787	593 594	84	595
Gun. Magazine bolt-	S. N. McClean	601,839	Apr. 5	413	86	83	77
Gun. Magazine bolt-	S. N. McClean	601,841	Apr. 5	424	87	83	80
Gun. Magazine bolt-	S. N. McClean	601,842	Apr. 5	430	88	83	81
Gun. Magazine bolt-	E. G. Parkhurst	599,287	Feb. 15	2062	490 491	82	1027
Gun. Magazine bolt-	E. G. Parkhurst	604,904	May 31	3058	703 704	83	1277
Gun. Magazine bolt-	G. L. Putnam and C. H. Farmer	609,211	Aug. 16	1940	462 463	84	1059
Gun. Magazine bolt-	G. Schou	604,423	May 24	2203	494	83	1097
Gun. Magazine bolt-	T. B. Wilson	609,600	Aug. 23	2660	621 622	84	1218
Gun. Magazine bolt-	T. B. Wilson	609,601	Aug. 23	2665	622 623	84	1218
Gun-mount	C. O. Forsell	597,178	Jan. 11	1258	295	82	261
Gun-mounting	L. V. Benét	615,522	Dec. 6	572	131	85	1523
Gun-mounting	L. V. Benét and H. A. Mercié	601,543	Mar. 29	3410	774	82	1952
Gun-mounting	C. Martin	601,154	Mar. 22	2705	622	82	1787
Gun mounting. Disappearing-	W. Crozier	613,252	Nov. 1	45	11	85	625
Gun mounting. Disappearing-	A. T. Dawson	605,459	June 7	750	171	83	1497
Gun. Pneumatic	E. M. T. Boddam	605,216	June 7	291	67, 68	83	1405
Gun. Pneumatic	W. L. Breath	599,549	Feb. 22	2590	607 608	82	1151
Gunpowder and making same	A. Singleton	610,417	Sept. 6	525		84	1539
Gun. Quick-firing	E. A. M. Welin	614,414	Nov. 15	2124	488 489	85	1064
Gun-rack	L. M. Wiler	602,177	Apr. 12	1027	225	83	207
Gun. Rapid-fire	L. L. Driggs and V. C. Tasker	613,195	Oct. 25	2808	663	85	586
Gun rifle attachment. Shot-	H. A. Darms	611,062	Sept. 20	1646	377	84	1793



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Gun safety device. Bolt-----	T. C. Johnson -----	606,972	July 5	579	{ 127 128	{ 84	115
Gun-sight -----	B. Burton -----	613,240	Nov. 1	30	7	85	622
Gun-sight -----	J. A. Cooper -----	607,344	July 12	1329	284	84	275
Gun sight. Blow-----	H. Rahn -----	613,823	Nov. 8	1075	244	85	841
Gun. Single-trigger double-barrel-----	J. D. and W. Thompson -----	610,569	Sept. 13	796	189	84	1608
Gun single-trigger mechanism-----	H. A. A. Thorn -----	602,610	Apr. 19	1756	401	83	362
Gun. Spring air-----	W. H. Calkins and C. A. Lindberg-----	614,531	Nov. 22	2328	534	85	1115
Gun. Spring air-----	W. H. Calkins and C. A. Lindberg-----	614,532	Nov. 22	2329	534	85	1115
Gun-support -----	A. W. Zuberbier -----	612,298	Oct. 11	1256	303	85	253
Gun. Take-down -----	W. Mason -----	605,734	June 14	1225	{ 283 284	{ 83	1606
Gun. Take-down -----	W. Mason -----	616,719	Dec. 27	2826	655	85	2016
Gun-turrets. Apparatus for operating-----	G. W. Dickie -----	599,600	Feb. 22	2687	{ 628 629	{ 82	1170
Gun-wads. Apparatus for punching out-----	W. L. Morris -----	614,330	Nov. 15	1966	454	85	1034
Guns. Ammunition-holder for machine-----	D. M. B. H. Cochrane -----	607,681	July 19	2117	443	84	446
Guns. Apparatus for charging heavy breech-load- ing-----	F. W. Hawkins -----	609,345	Aug. 16	2203	521	84	1113
Guns. Bearing for trunnions of heavy-----	D. Vickers, A. T. Dawson, and G. T. Buckham-----	614,042	Nov. 8	1423	326	85	910
Guns. Charge-support for breech-loading-----	D. Vickers, A. T. Dawson, and G. T. Buckham-----	613,179	Oct. 25	2784	656	85	581
Guns. Ejecting device for breakdown-----	W. H. Davenport -----	615,958	Dec. 13	1346	315	85	1687
Guns in or out on shipboard. Apparatus for run- ning-----	A. T. Dawson and G. T. Buckham-----	615,959	Dec. 13	1348	315	85	1687
Guns. Signal attachment for magazine-----	J. W. James -----	600,787	Mar. 15	2102	481	82	1659
Guns. Wiper-rod-holding attachment for-----	D. L. Howard -----	613,860	Nov. 8	1134	260	85	853
Gutta-percha. Producing artificial-----	F. Fenton -----	599,694	Mar. 1	31	82	1222	
Gutter-cleaner -----	W. T. Cook -----	596,694	Jan. 4	423	96, 97	82	84
Gutter-former -----	H. A. Riley -----	614,624	Nov. 22	2502	{ 571 572	{ 85	1146
Gutter-former -----	E. G. Watrous -----	599,028	Feb. 15	1645	389	82	950
Gutter-former -----	E. G. Watrous and H. A. Riley -----	615,933	Dec. 13	1299	303	85	1677
Gynecological instrument -----	E. Kröning and E. Bensele -----	597,988	Jan. 25	2646	618	82	563
Hackling-machine -----	J. Good -----	608,979	Aug. 9	1489	{ 351 352	{ 84	962
Hackling-machine -----	J. Good -----	608,980	Aug. 9	1491	{ 352 353	{ 84	962
Hair. Apparatus for drying ladies'-----	E. Mink -----	610,072	Aug. 30	3501	811	84	1396
Hair-crimper -----	E. A. Smith -----	603,209	Apr. 26	2793	638	83	576
Hair-curler -----	M. Fischhaber -----	608,036	July 26	2812	598	84	600
Hair-curler -----	F. Zimmermann -----	613,104	Oct. 25	2670	631	85	558
Hair-cutter -----	J. E. Ferland -----	609,090	Aug. 16	1715	408	84	1019
Hair. Device for washing ladies'-----	E. Mink -----	612,259	Oct. 11	1190	285	85	241
Hair-fastener -----	S. W. Herrick and C. R. Lunger -----	613,145	Oct. 25	2730	644	85	570
Hair-fastener -----	E. M. M. Mackay -----	607,604	July 19	1982	412	84	421
Hair holding or retaining device. Lady's-----	A. Stockinger -----	601,418	Mar. 29	3203	723	82	1909
Hair-pin -----	C. A. Meldrum -----	616,680	Dec. 27	2745	638	85	1999
Hair. Preparing cattle-tail-----	M. M. Ruttenau -----	612,994	Oct. 25	2492	85	523	
Hair-tie button -----	C. C. Davis -----	602,699	Apr. 19	1927	437	83	395
Hair-tonic -----	L. Edwards -----	604,111	May 17	1628	83	966	
Hair-tonic -----	H. Koore -----	606,723	July 5	160	84	33	
Hairwork frame. Ornamental-----	H. May, Jr. -----	606,728	July 5	164	36	84	34
Hame and trace connector-----	J. E. Walton -----	614,908	Nov. 29	3023	692	85	1261
Hame attachment. Harness-----	I. P. Davis -----	610,15	Aug. 30	3585	831	84	1415
Hame-fastener -----	C. H. Johnson -----	602,945	Apr. 26	2359	538	83	494
Hame lock or fastener -----	J. A. Stansbury -----	598,464	Feb. 1	676	165	82	731
Hame or collar fastener -----	C. J. D. Strohecker -----	606,598	June 28	2905	672	83	1964
Hame-strap -----	T. E. Brockman -----	615,342	Dec. 6	209	52	85	1454
Hame-strap -----	R. Quincey -----	603,987	May 10	1333	305	83	876
Hammer -----	E. G. Minnemeyer -----	613,459	Nov. 1	443	101	85	701
Hammer -----	L. G. Young -----	602,971	Apr. 26	2399	547	83	501
Hammer. Compressed-air-----	J. Schmidt -----	602,198	Apr. 12	1064	233	83	214
Hammer. Drop-----	F. C. Billings -----	614,692	Nov. 22	2629	{ 598 599	{ 85	1169
Hammer. Drop-----	R. J. Good -----	605,544	June 14	873	205	83	1541
Hammer. Drop-----	E. W. Merrill, Jr. -----	601,060	Mar. 22	2561	584	82	1759
Hammer. Drop-----	G. Rowbottom -----	609,836	Aug. 30	3088	720	84	1315
Hammer. Magazine magnetic tack-----	A. W. Savage -----	599,741	Mar. 1	107	25	82	1236
Hammer. Metal-beater -----	J. E. Hermann -----	607,510	July 19	1811	{ 376 377	{ 84	390
Hammer nail-pulling attachment. Claw- Hammer or stamp. Hydraulic-----	S. R. Ashley -----	603,228	Apr. 26	2833	646	83	588
Hammer. Pneumatic -----	H. Beau -----	607,910	July 26	2571	545	84	551
Hammer. Pneumatic -----	H. Breitenstein -----	614,160	Nov. 15	1637	376	85	972
Hammer. Pneumatic -----	H. G. Kotten -----	605,486	June 14	790	181	83	1525
Hammer. Pneumatic -----	A. Parfitt -----	604,633	May 24	2586	590	83	1167
Hammer. Power-----	W. H. Law -----	612,949	Oct. 25	2422	577	85	508
Hammer. Power-----	C. A. Vaughn -----	606,370	June 28	2489	{ 578 579	{ 83	1882
Hammer. Tack or nail-----	G. E. Haszinger -----	609,672	Aug. 23	2811	656	84	1248
Hammers, &c. Adjusting arrangement for spring- power-----	P. Holmberg -----	610,745	Sept. 13	1076	247	84	1666
Hammock -----	I. E. Palmer -----	614,621	Nov. 22	2496	570	85	1145
Hammock -----	H. Thiele -----	597,227	Jan. 11	1337	312	82	275
Hammock attachment -----	I. E. Palmer -----	603,014	Apr. 26	2469	561	83	513
Hammock-chair. Swinging-----	A. Stransky -----	603,712	May 10	850	189	83	782
Hammock-frame -----	A. A. Young -----	606,616	June 28	2932	680	83	1969
Hammock seat attachment-----	I. E. Palmer -----	603,408	May 3	286	64	83	655
Hammock-spreader -----	I. E. Palmer -----	604,942	May 31	3121	717	83	1290
Hammock-stretcher. Longitudinal-----	I. E. Palmer -----	612,991	Oct. 25	2488	592	85	522
Hammock-support coupling-----	W. H. Wright and J. G. Dell -----	605,367	June 7	603	134	83	1467
Hammocks. Means for suspending-----	I. E. Palmer -----	614,234	Nov. 15	1794	414	85	1001
Hams, &c. Preserving-----	C. J. Dempsey -----	616,527	Dec. 27	2459	568	85	1944
Hand-bag -----	S. Reitzenbaum -----	600,889	Mar. 22	2282	520	82	1706
Hand-drill -----	J. McSweeney -----	610,455	Sept. 6	587	131	84	1551



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hand-drill.....	H. G. Warren.....	614,910	Nov. 29	2027	692	85	1262
Hand-operated drill.....	T. J. Doran.....	614,848	Nov. 29	2918	669	85	1241
Handkerchief-holder. Lady's.....	C. C. Davis.....	597,636	Jan. 18	2027	473	82	429
Handle:							
<i>See</i> Auger-handle. Package-handle.							
Bicycle-handle. Pan-handle.							
Brake-handle. Parcel-handle.							
Broom-handle. Pruning-shears handle.							
Car-brake handle. Satchel-handle.							
Casket-handle. Saw-handle.							
Collapsible handle. Sheet-metal handle.							
Coffee or tea pot handle. Shovel-handle.							
Cutlery-handle. Stamp-handle.							
Damper-handle. Tool-handle.							
Dust-pan handle. Umbrella-handle.							
Implement-handle. Velocipede-handle.							
Jar-handle. Vessel-handle.							
Handle.....	F. Read.....	605,745	June 14	1244	288	83	1609
Handle.....	W. E. Richards.....	604,889	May 31	3032	696	83	1272
Handle-bar.....	J. L. Martin.....	610,328	Sept. 6	359	76	84	1510
Handle-bar.....	O. B. Mosher.....	604,071	May 17	1551	348	83	951
Handle-bar.....	T. Vantuyt.....	603,671	May 10	788	173	83	771
Handle-bar. Adjustable.....	R. R. Ball.....	602,421	Apr. 19	1438	325	83	303
Handle-bar. Adjustable.....	W. J. Christy.....	613,970	Nov. 8	1309	298	85	867
Handle-bar. Adjustable.....	W. W. Dirksen.....	616,412	Dec. 20	2223	519	85	1879
Handle-bar. Adjustable.....	J. L. Hamilton, Jr.....	604,389	May 24	2140	481	83	1085
Handle-bar. Adjustable.....	R. M. Keating.....	607,543	July 19	1871	389	84	401
Handle-bar. Adjustable.....	J. D. King and M. A. Burns.....	613,633	Nov. 1	732	170	85	756
Handle-bar. Adjustable.....	J. H. La Fave.....	602,625	Apr. 19	1787	408	83	368
Handle-bar and luggage-carrier.....	A. Mayerson.....	609,690	Aug. 23	2845	665	84	1254
Handle-bar grip.....	M. E. Richter.....	612,057	Oct. 11	829	203	85	172
Handle-fastener or shank-lock.....	T. E. Wilson.....	604,510	May 24	2376	541	83	1128
Handle for buckets, &c.....	J. T. Kelly.....	614,173	Nov. 15	1656	380	85	976
Handle for hoes, rakes, &c.....	A. L. Boyer.....	603,550	May 3	568	125	83	711
Handle for kerosene-tins or the like.....	T. B. Abbott.....	610,425	Sept. 6	536	118	84	1541
Handle for sheet-metal vessels.....	J. R. McLaughlin.....	605,004	May 31	3220	741	83	1309
Handle hand-grip.....	F. Taylor.....	616,746	Dec. 27	2864	664	85	2023
Handle, rod, and pole coupling.....	G. B. Hussey.....	613,903	Nov. 8	1205	275	85	866
Handle-shield.....	W. E. De Witt.....	600,637	Mar. 15	1845	422	82	1610
Handles. Device for attaching implements to.....	G. H. Dunlop.....	608,110	July 26	2920	625	84	622
Hanger:							
<i>See</i> Bicycle-hanger. Harness-hanger.							
Clothes-hanger. Hat-hanger.							
Clothes-line hanger. Incandescent-light hang- er.							
Coat-hanger. Journal-hanger.							
Crank-hanger. Meat-hanger.							
Curtain-hanger. Picture-hanger.							
Door-hanger. Pipe-hanger.							
Eaves-trough hanger. Scaffold-hanger.							
Fire-harness hang- er. Shaft-hanger.							
Garment-hanger. Shovel-hanger.							
Gate or door hanger. Skirt-hanger.							
Trousers-hanger.							
Hanger.....	M. O. Reeves.....	606,941	July 5	536	117	84	107
Hanger-bolt.....	V. and K. McCreery.....	613,933	Nov. 8	1251	284	85	875
Hanger for goods or garments.....	F. Nickerson.....	603,653	May 10	755	168	83	764
Hanger for wearing-apparel.....	S. C. Larsen.....	599,244	Feb. 15	1992	473	82	1013
Harmonica.....	C. L. Curtis.....	605,083	June 7	26	8	83	1358
Harmonica.....	C. L. Curtis.....	611,237	Sept. 27	1992	459	84	1879
Harness-adjuster.....	S. L. Chubbuck.....	600,573	Mar. 15	1751	399	82	1592
Harness attachment.....	W. R. Phillips.....	608,074	July 26	2865	613	84	611
Harness attachment. Racing.....	J. H. Snapp.....	599,365	Feb. 22	2239	531	82	1083
Harness back-band.....	J. A. Fretwell.....	602,003	Apr. 5	721	153	83	136
Harness clamping attachment.....	J. N. Farlow.....	613,565	Nov. 1	623	144	85	735
Harness-hanger.....	C. S. Carlin.....	603,940	May 10	1264	288	83	862
Harness-hook.....	V. Lauer.....	613,579	Nov. 1	646	149	85	738
Harness-loop.....	J. T. Condon.....	613,121	Oct. 25	2695	637	85	563
Harness-loop.....	R. G. Cottier.....	600,478	Mar. 8	1556	358	82	1535
Harness-pad.....	E. L. McClain.....	604,567	May 24	2484	565	83	1148
Harness-strap coupling.....	W. W. Green.....	613,989	Nov. 8	1344	306	85	895
Harness suspending and releasing apparatus.....	J. W. Howgate.....	609,675	Aug. 23	2819	657	84	1249
Harp.....	G. F. Lyon.....	608,058	July 26	2841	606	84	606
Harrow.....	H. D. Babcock.....	604,288	May 17	1946	436	83	1028
Harrow.....	H. D. Babcock.....	604,289	May 17	1947	436	83	1028
Harrow.....	W. M. Baker.....	616,817	Dec. 27	2978	694	85	2046
Harrow.....	G. M. Clark.....	598,979	Feb. 15	1557	370	82	932
Harrow.....	H. W. Eisenhart.....	609,333	Aug. 16	2183	514	84	1109
Harrow.....	H. W. Eisenhart.....	609,334	Aug. 16	2185	515	84	1109
Harrow.....	S. H. and D. Garst.....	616,530	Dec. 27	2462	569	85	1945
Harrow.....	G. E. Gedge.....	602,538	Apr. 19	1639	378	83	341
Harrow.....	P. J. Heller.....	615,272	Dec. 6	95	25, 26	85	1432
Harrow.....	G. Herr, W. Cunningham, and F. Herr.	608,121	July 26	2937	629	84	625
Harrow.....	J. I. Hoke.....	603,446	May 3	350	79	83	667
Harrow.....	J. Knoop.....	612,112	Oct. 11	928	225	85	192
Harrow.....	E. O. Lean and E. S. Fisher.....	597,201	Jan. 11	1294	302	82	268
Harrow.....	M. R. McClelland.....	605,506	June 14	819	190	83	1531
Harrow.....	W. E. Phillips.....	605,651	June 14	1094	252	83	1581
Harrow.....	G. W. Ream.....	609,242	Aug. 16	2018	478	84	1077
Harrow.....	A. V. Ryder.....	607,278	July 12	1219	260	84	252
Harrow.....	P. A. Schumacher.....	610,611	Sept. 13	865	198	84	1623
Harrow.....	J. C. Sturges.....	603,798	May 10	1001	224	83	812



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Harrow.....	J. J. Ussery.....	616,166	Dec. 20	1767	409	85	1788
Harrow.....	E. E. Whipple.....	600,658	Mar. 15	1876	429	82	1615
Harrow.....	E. E. Whipple.....	600,659	Mar. 15	1880	430	82	1616
Harrow.....	E. E. Whipple.....	604,343	May 17	2061	461	83	1050
Harrow.....	E. E. Whipple.....	609,980	Aug. 30	1346	462	84	1365
Harrow.....	H. Wiard and H. M. Burdick.....	604,345	May 17	2066	463	83	1050
Harrow and cultivator. Disk.....	P. E. Little.....	609,889	Aug. 30	3178	744	84	1333
Harrow attachment.....	E. E. Whipple.....	600,662	Mar. 15	1892	432	82	1619
Harrow attachment. Supporting.....	E. E. Whipple.....	600,661	Mar. 15	1889	431	82	1618
Harrow attachment. Supporting.....	E. E. Whipple.....	600,663	Mar. 15	1896	432	82	1620
Harrow attachment. Wheeled.....	E. E. Whipple.....	600,660	Mar. 15	1885	431	82	1617
Harrow. Automatic pulverizing.....	A. Kissell.....	604,352	May 17	2080	466	83	1053
Harrow-bar. Spike-tooth.....	H. D. Babcock.....	604,223	May 17	1829	410	83	1005
Harrow. Combination.....	C. S. Sharp.....	598,820	Feb. 8	1270	308	82	861
Harrow. Disk.....	M. W. Kouns.....	615,718	Dec. 13	914	213	85	1605
Harrow. Disk.....	D. R. Livengood.....	603,449	May 3	353	80	83	668
Harrow. Disk.....	J. H. Morrow and J. A. Schmitz.....	613,291	Nov. 1	122	28, 29	85	640
Harrow. Disk.....	C. S. Sharp.....	609,469	Aug. 23	2429	568	84	1174
Harrow. Disk.....	A. B. Thielens.....	613,092	Oct. 25	2655	627	85	554
Harrow hitch-iron.....	W. A. Dromgold.....	613,502	Nov. 1	526	119	85	716
Harrow. Reversible disk.....	C. T. Settle.....	609,560	Aug. 23	2592	605	84	1205
Harrow. Riding.....	M. Rowe.....	604,339	May 17	2054	460	83	1048
Harrow. Riding and folding.....	J. H. Ayrhart.....	607,008	July 12	671	145	84	153
Harrow. Rotary.....	R. Rakestraw.....	606,300	June 28	2356	545	83	1857
Harrow. Sectional disk.....	J. H. Morrow and J. A. Schmitz.....	613,292	Nov. 1	123	29	85	641
Harrow. Spring-tooth.....	H. J. Case.....	604,854	May 31	2972	681	83	1260
Harrow. Spring-tooth.....	C. S. Sharp.....	604,271	May 17	1916	429	83	1022
Harrow. Spring-tooth.....	J. E. Sheibley.....	604,272	May 17	1918	429	83	1025
Harrow. Spring-tooth.....	H. J. Washburn and E. L. Cuda- back.....	611,299	Sept. 27	2116	487	84	1902
Harrow supporting attachment.....	E. E. Whipple.....	610,115	Aug. 30	3558	825	84	1408
Harrow-supporting attachment.....	E. E. Whipple.....	611,160	Sept. 20	1838	423	84	1830
Harrow-tooth clamp.....	A. O. Peterson.....	612,992	Oct. 25	2489	593	85	522
Harrow-tooth clip.....	J. I. Hoke.....	600,076	Mar. 1	819	189	82	1374
Harrow truck. Disk.....	F. E. Alshouse.....	608,167	Aug. 2	2	1	84	655
Harrow. Wheel.....	N. Fournier.....	610,300	Sept. 6	306	66, 67	84	1501
Harrow wheeled supporting attachment.....	E. E. Whipple.....	609,981	Aug. 30	3351	779	84	1366
Harvester.....	J. W. Alkire.....	598,192	Feb. 1	211	49	82	642
Harvester.....	A. E. Anderson.....	614,600	Nov. 22	2462	562	85	1138
Harvester.....	J. F. Appleby.....	601,866	Apr. 5	478	97, 98	83	89
Harvester.....	M. Boice.....	598,848	Feb. 8	1316	318	82	870
Harvester.....	W. Butterfield.....	598,903	Feb. 15	1412	339	82	904
Harvester.....	A. Parker.....	600,927	Mar. 22	2342	532	82	1717
Harvester.....	J. O. V. Wise.....	600,666	Mar. 15	1902	433	82	1620
Harvester and binder. Corn.....	E. G. Davis.....	596,855	Jan. 4	700	160	82	136
Harvester and binder. Corn.....	W. H. Gray.....	602,659	Apr. 19	1846	420	83	379
Harvester and husker. Corn.....	J. Tjossem.....	608,492	Aug. 2	570	127	84	769
Harvester and husker. Corn.....	J. W. Warrick.....	597,041	Jan. 11	1018	128	82	214
Harvester and thresher. Combined.....	D. G. Coyner.....	598,553	Feb. 8	841	240	82	780
Harvester and thresher. Combined.....	A. Gump.....	616,786	Dec. 27	2927	680	85	2036
Harvester attachment.....	A. Davis.....	610,525	Sept. 13	717	682	84	1593
Harvester attachment.....	W. M. Wadleigh.....	607,099	July 12	879	163	84	189
Harvester. Beet.....	G. W. Davis and E. E. Eggleston.....	613,975	Nov. 8	1316	189	85	888
Harvester bundle-carrier. Corn.....	C. S. Sharp.....	614,065	Nov. 8	1461	299	85	918
Harvester cord-knotter. Self-binding.....	H. E. Pridmore.....	604,336	May 17	2046	301	83	918
Harvester. Corn.....	C. S. Blodgett.....	600,853	Mar. 22	2220	335	83	1047
Harvester. Corn.....	W. A. Galloway and A. Z. Smith.....	601,248	Mar. 29	2890	458	82	1695
Harvester. Corn.....	G. Gowen.....	602,216	Apr. 12	1097	506	82	1849
Harvester. Corn.....	W. H. Gray.....	602,157	Apr. 12	996	659	83	220
Harvester. Corn.....	D. F. Leishman.....	603,608	May 3	678	241	83	201
Harvester. Corn.....	A. Neer.....	605,121	June 7	88	218	85	915
Harvester. Corn.....	J. H. Newell.....	605,122	June 7	91	219	85	915
Harvester. Corn.....	A. D. Osgood.....	597,545	Jan. 18	1877	150	83	732
Harvester. Corn.....	D. T. Phillips.....	605,650	June 14	1089	151	83	1368
Harvester. Corn.....	C. G. Scherer and E. Hilt.....	611,513	Sept. 27	2519	152	83	1369
Harvester. Corn.....	C. S. Sharp.....	601,760	Apr. 5	265	435	82	399
Harvester. Corn.....	C. S. Sharp.....	601,761	Apr. 5	269	436	83	399
Harvester. Corn.....	C. S. Sharp.....	614,061	Nov. 8	1447	251	83	1580
Harvester. Corn.....	C. S. Sharp.....	614,062	Nov. 8	1449	582	84	1978
Harvester. Corn.....	C. S. Sharp.....	614,063	Nov. 8	1453	52	83	51
Harvester. Corn.....	C. S. Sharp.....	614,064	Nov. 8	1455	52, 53	83	51
Harvester. Corn.....	C. S. Sharp.....	614,064	Nov. 8	1455	332	85	915
Harvester. Corn.....	C. S. Sharp.....	614,062	Nov. 8	1449	333	85	915
Harvester. Corn.....	C. S. Sharp.....	614,063	Nov. 8	1453	334	85	916
Harvester. Corn.....	C. S. Sharp.....	614,064	Nov. 8	1455	334	85	917



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Harvester. Corn-----	C. S. Sharp-----	614,066	Nov. 8	1463	336	85	919
Harvester. Corn-----	R. E. Smith-----	614,904	Nov. 29	3012	690 691	85	1259
Harvester. Corn-----	F. L. Weigand-----	612,537	Oct. 18	1656	393 394	85	342
Harvester. Cotton-----	G. S. Lee-----	608,689	Aug. 9	937	215 216	84	860
Harvester cutting apparatus-----	H. Weaver and F. M. Scranton-----	614,639	Nov. 22	2532	577	85	1151
Harvester-elevator-----	M. Kane-----	598,377	Feb. 1	525	128	82	701
Harvester-elevator-----	A. F. Spooner and J. H. Cass-----	611,521	Sept. 27	2533	585	84	1980
Harvester-frame-----	B. F. Stewart-----	614,185	Nov. 15	1674	385 386 387	85	979
Harvester. Grain-----	R. W. Coombs-----	597,635	Jan. 18	2026	473	82	429
Harvester. Grain-----	G. A. Farrall-----	603,759	May 10	923	205 206	83	797
Harvester. Grain-----	G. A. Farrall and E. Pridmore-----	608,325	Aug. 2	288	64	84	713
Harvester. Grain-----	J. F. Steward-----	616,029	Dec. 13	1478	346	85	1714
Harvester grain-adjuster-----	J. W. Pridmore-----	602,809	Apr. 19	2113	477	83	430
Harvester. Grain-binding-----	W. M. Holmes-----	596,594	Jan. 4	245	54	82	49
Harvester guard-finger-----	L. Miller-----	601,447	Mar. 29	3256	736	82	1919
Harvester. Mint-----	O. E. Abbey-----	602,292	Apr. 12	1229	270	83	247
Harvester or mower cutting mechanism-----	S. Douglass-----	597,400	Jan. 18	1630	379	82	351
Harvester. Pea-----	A. D. Pitcher-----	607,704	July 19	2161	454	84	454
Harvester. Potato-----	J. N. Cocker. (Reissue)-----	11,674	June 28	2976	690 691	83	1977
Harvester, reaper, &c-----	W. M. Wadleigh-----	607,100	July 12	881	189	84	189
Harvester-reel-----	J. C. Lee-----	612,354	Oct. 11	1353	327	85	271
Harvester-reel-adjusting mechanism-----	J. F. Appleby-----	598,652	Feb. 8	1002	242	82	810
Harvester-reel. Collapsible-----	G. W. Mitchell-----	612,260	Oct. 11	1191	285	85	241
Harvester-truck-----	J. A. Graham and E. J. Birkett-----	602,030	Apr. 5	766	165	83	145
Harvester weight-equalizer-----	J. O. V. Wise-----	600,665	Mar. 15	1900	433	82	1620
Harvesters. Butt-adjuster for self-binding-----	W. Butterfield-----	605,388	June 7	633	142	83	1473
Harvesting and husking machine. Corn-----	D. McMannama-----	611,791	Oct. 4	342	82, 83	85	69
Harvesting-machine-----	J. C. Moore-----	603,652	May 10	753	167 168	83	763
Harvesting-machine. Combined-----	W. A. Galloway-----	601,247	Mar. 29	2885	657 658 659	82	1848
Harvesting machine. Corn-----	H. E. Pridmore-----	611,078	Sept. 20	1672	383 384 385	84	1798
Harvesting machine. Corn-----	C. H. Withaeger-----	603,307	May 3	106	25	83	622
Harvesting machine. Grain-----	H. E. Pridmore-----	611,079	Sept. 20	1679	385 386 387	84	1799
Harvesting-machines. Tangled-grain separator for-----	A. A. Hamilton-----	606,137	June 21	2039	467	83	1775
Hasp-fastener-----	T. H. Jacobs and J. T. Carmody-----	614,552	Nov. 22	2358	540	85	1121
Hasp-fastener-----	J. A. Mosher-----	605,645	June 14	1080	248	83	1578
Hasp-fastener-----	P. Mullane-----	607,873	July 26	2505	531	84	538
Hasp-fastener-----	W. H. Smith-----	615,506	Dec. 6	551	126	85	1519
Hat-----	R. Lieux-----	609,514	Aug. 23	2511	587	84	1190
Hat-----	G. Wildman-----	611,983	Oct. 4	672	163	85	131
Hat and coat hanger-----	O. Wigtil-----	611,669	Oct. 4	140	34	85	30
Hat and coat hook-----	R. A. Breul-----	600,255	Mar. 8	1185	268	82	1464
Hat and coat hook-----	J. F. Main-----	599,062	Feb. 15	1696	402	82	960
Hat attachment-----	J. Grossgebauer-----	599,176	Feb. 15	1884	446	82	992
Hat-bag-----	M. L. Horning-----	611,633	Oct. 4	69	17	85	16
Hat-body-pouncing machine-----	G. F. Larkin-----	616,623	Dec. 27	2615	606 607	85	1973
Hat-body-shaping apparatus-----	J. B. Buckman-----	605,073	June 7	10	3	83	1355
Hat-body-sizing machine-----	C. E. Keator-----	603,906	May 10	1210	274	83	851
Hat-brim-curling machine-----	J. Agar-----	603,719	May 10	860	191	83	784
Hat-brim-curling machine-----	G. Segsneider-----	602,246	Apr. 12	1140	250	83	229
Hat-brim curls. Machine for forming-----	J. Redway-----	597,807	Jan. 25	2338	546	82	504
Hat brims. Machine for ironing straw-----	A. Bobsien-----	602,280	Apr. 12	1203	264	83	242
Hat-box-----	M. A. Etsell-----	612,642	Oct. 18	1869	442	85	382
Hat-box-----	F. E. Jones-----	614,956	Nov. 29	3134	719	85	1286
Hat-box-----	S. Levy-----	611,133	Sept. 20	1791	411 412	84	1821
Hat-box. Knockdown-----	W. G. Haas-----	616,869	Dec. 27	3129	725	85	2077
Hat-box stay-flange-----	J. Zipfel, Jr-----	614,780	Nov. 22	2775	634	85	1199
Hat-clip-----	E. Anderson-----	608,821	Aug. 9	1201	281	84	907
Hat-fastener-----	C. Berkovitz-----	599,031	Feb. 15	1651	390	82	951
Hat-fastener-----	W. A. Callanan-----	606,799	July 5	308	64	84	61
Hat-fastener-----	D. V. Garis-----	606,006	June 21	1790	411	83	1728
Hat-fastener-----	H. Ingram-----	607,799	July 19	2342	494	84	489
Hat-fastener-----	O. J. Jones and M. B. Kerr-----	601,657	Apr. 5	61	12	83	13
Hat-fastener-----	H. L. Martyn-----	600,543	Mar. 15	1703	390	82	1583
Hat-fastener-----	W. N. Murdock-----	605,116	June 7	80	23	83	1367
Hat-fastener-----	R. Perselle-----	614,308	Nov. 15	1913	441	85	1024
Hat-fastener-----	W. E. Pugsley-----	600,320	Mar. 8	1287	294	82	1485
Hat-fastener-----	C. Scott-----	600,622	Mar. 15	1823	418	82	1605
Hat-fastener-----	J. J. Soldan-----	608,529	Aug. 2	636	143	84	781
Hat-finishing machine-----	W. E. Cummings-----	607,653	July 19	2077	433	84	438
Hat-forming machine-----	R. J. Lynch-----	612,425	Oct. 18	1471	356	85	307
Hat. Fur or wool-----	W. D. Zerffi and F. G. Riedel-----	615,944	Dec. 13	1323	308	85	1682
Hat-guard-----	W. Lord-----	606,486	June 28	2696	621	83	1924
Hat-hanger-----	D. Spelman-----	609,058	Aug. 16	1663	396	84	1010
Hat-holding device-----	R. Piesbergen-----	608,710	Aug. 9	975	224	84	867
Hat or bonnet pin guide and protector-----	K. J. Peers-----	608,219	Aug. 2	92	24	84	673
Hat-packing ring-----	L. T. Hallock-----	603,445	May 3	350	78	83	667
Hat-pin-----	J. McCoy-----	611,502	Sept. 27	2503	577	84	1974
Hat-pin-----	W. R. Gorrell-----	599,526	Feb. 22	2549	598	82	1144
Hat-pin-----	W. S. Law-----	598,425	Feb. 1	623	153	82	721
Hat-pin-----	H. C. McCarren-----	605,646	June 14	1081	249	83	1579
Hat-pin-----	F. Stefany-----	601,989	Apr. 5	699	149	83	132



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hat-pin	M. J. Waymack	609,061	Aug. 16	1669	397	84	1011
Hat-pin securer	W. F. Kessinger	603,830	May 10	1075	240	83	825
Hat-rack	S. J. Evans and C. M. Armes	613,259	Nov. 1	57	14	85	628
Hat-rack	H. Groth and F. C. Rother	597,522	Jan. 18	1845	427 428	82	393
Hat-rack and table. Combined	W. J. Ballow	601,422	Mar. 29	3209	724	82	1910
Hat sweat-band	C. Stader	608,724	Aug. 9	995	229	84	870
Hat-ventilator	F. Landauer	614,962	Nov. 29	3142	721	85	1288
Hats, coats, &c. Support for	W. W. Vail	611,721	Oct. 4	233	57	85	47
Hats, coats, umbrellas, &c. Holder for	F. Wagenblast	603,544	May 3	559	123	83	709
Hats. Fur trimming for ladies'	J. F. Vorck	611,875	Oct. 4	491	119	85	98
Hats. Manufacture of felt	J. B. Harrison	610,627	Sept. 13	890	203 204	84	1628
Hatchet nail-holder	F. L. Shirey	613,022	Oct. 25	2535	603	85	531
Hay-boring apparatus	W. Cole	601,124	Mar. 22	2658	607	82	1778
Hay-carrier	N. Isachsen	600,949	Mar. 22	2374	540	82	1724
Hay-carrier	D. L. Tschantz	601,291	Mar. 29	2988	675	82	1869
Hay-cocking machine	W. H. Frazine	603,816	May 10	1038	231	83	819
Hay-fork	J. Mueller	612,527	Oct. 18	1637	391	85	339
Hay-frame brake	C. C. and W. L. Barrow	611,096	Sept. 20	1719	395	84	1808
Hay-loading attachment for wagons	A. Pinolehto	614,887	Nov. 29	2984	684	85	1255
Hay-loading net	C. McConnell	597,734	Jan. 25	2199	513	82	478
Hay or grain elevator and distributor	C. D. Beckwith	597,096	Jan. 11	1131	267	82	236
Hay-press	J. D. Coxwell	605,080	June 7	22	6	83	1357
Hay-press feeding-fork	W. T. Jones	611,326	Sept. 27	2165	500	84	1911
Hay-rack	W. Gamble	610,395	Sept. 6	488	106 107	84	1533
Hay-rack	S. B. Hurd	609,102	Aug. 16	1762	419	84	1025
Hay-rack	B. Tanner	608,310	Aug. 2	249	56, 57	84	704
Hay-rack	E. Troy	612,533	Oct. 18	1648	392	85	340
Hay-rack for farm-wagons	S. H. Plomberg	616,008	Dec. 23	1441	337	85	1706
Hay-rack loader	S. Kellum	609,148	Aug. 16	1834	434 435	84	1040
Hay-rake	J. Goppert	597,496	Jan. 18	1805	418	82	385
Hay-rake	J. W. Latimer	615,722	Dec. 13	924	215	85	1607
Hay-rake and baling-press. Combined	T. Caswell	607,216	July 12	1085	234 235	84	225
Hay rake and loader. Combined	P. M. Leonard	616,340	Dec. 20	2089	486 487	85	1852
Hay rake and stacker	R. A. Simpson	602,145	Apr. 12	968	211 212	83	195
Hay-rake fender. Horse-	W. Ostrander	597,170	Jan. 11	1246	292 293	82	259
Hay-rake. Folding	J. R. Vaughn and M. Jenkins	605,034	May 31	3273	752	83	1318
Hay-rake. Horse	J. Kerl	611,382	Sept. 27	2286	527 528	84	1932
Hay-rake. Horse	E. Pridmore	612,571	Oct. 18	1727	409	85	355
Hay-rake. Horse	D. B. Smith	597,072	Jan. 11	1081	255 256	82	226
Hay-rake. Horse	W. Strait	616,159	Dec. 20	1755	406	85	1786
Hay-rake. Horse	M. J. Todd	613,738	Nov. 8	926	212 213	85	813
Hay-sling	W. J. King	599,144	Feb. 15	1829	434	82	984
Hay-stacker	J. Dain, Jr.	608,653	Aug. 9	872	201	84	846
Hay-stacker	R. E. McDaniel	616,581	Dec. 27	2540	588	85	1959
Hay-stacker	W. H. Ney	616,628	Dec. 27	2624	608	85	1975
Hay stacker or ricker	J. J. Neff	597,586	Jan. 18	1946	453	82	413
Hay-tedder	H. F. Bond	598,623	Feb. 8	958	231	82	802
Head-covering	J. Smyth	606,982	July 5	601	131	84	179
Head-gate	J. H. Buttorff	602,973	Apr. 26	2403	548	83	501
Head-gate	I. D. O'Donnell	598,807	Feb. 8	1252	303	82	857
Head-gate	W. R. Thornton	616,212	Dec. 20	1843	426	85	1803
Head-protector	H. B. Frazier	600,778	Mar. 15	2089	478	82	1657
Head-rest	A. E. Larrabee and J. I. Banks	599,850	Mar. 1	330	74	82	1275
Head-rest. Pocket folding	N. R. Stone	597,336	Jan. 11	1513	354	82	311
Head-rest. Shampoo	C. O. Bailiff	612,008	Oct. 11	725	174	85	155
Head-screen	J. Conlisk	599,686	Mar. 1	16	4	82	1220
Header platform connection	J. Morris	604,069	May 17	1542	347	83	949
Headlight. Electric	F. W. Dressel	603,876	May 10	1159	261	83	842
Headlight. Electric-arc	W. G. Wagenhals	615,927	Dec. 13	1281	199	85	1674
Headlight-lamp. Electric	H. P. Wellman	608,497	Aug. 2	581	130 131	84	770
Headlight. Locomotive	J. H. Sligh	613,330	Nov. 1	194	42	85	654
Headlight. Locomotive	J. S. Thurman	615,372	Dec. 6	285	66	85	1468
Headlight-reflector	A. Metternich	615,490	Dec. 6	506	117	85	1510
Headlights. Operating signal-curtains on locomotive-	W. J. Pugh	608,559	Aug. 2	691	157	84	792
Hearse attachment	M. M. Guiley	608,519	Aug. 2	625	140	84	779
Heat-economizer	J. C. Henderson	604,046	May 17	1495	336 337	83	941
Heat-exchanger for fluids	P. S. Hyslop	609,676	Aug. 23	2821	658	84	1250
Heat-generator	N. J. Carey	609,227	Aug. 16	1987	471 472	84	1070
Heat or cold indicator	E. B. Petersen	605,129	June 7	104	27	83	1371
Heat. Process of and apparatus for transmitting	G. F. Dinsmore. (Reissue)	11,656	Mar. 22	2843	650	82	1813
Heat-regulator	J. K. Gilcrest	599,959	Mar. 1	527	120	82	1313
Heat-retainer	F. Kahn	608,684	Aug. 9	929	213	84	859
Heater:							
See Automatic heater.	Hot-water heater.						
Bath-room and water heater.	Peanut-heater.						
Electric heater.	Portable heater.						
Feed-water heater.	Steam or hot-water heater.						
Fireplace-heater.	Stove-heater.						
Flat-iron heater.	Tank-heater.						
Gas-heater.	Water-heater.						
Heater	J. Demarest	606,649	July 5	23	5	84	7



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Heater .....	E. C. Hall .....	604,859	May 31	2988	685	83	1263
Heater .....	J. A. Miller .....	607,660	July 19	2091	436	84	441
Heating and cooking device .....	J. Allingham .....	604,820	May 31	2912	666	83	1249
Heater and radiator. Combined .....	C. J. Seymour and A. H. Macy .....	598,444	Feb. 1	644	158	82	725
Heater for water, &c. ....	A. J. Lewkowicz .....	612,668	Oct. 18	1915	453	85	391
Heaters. Relief device for hot-water .....	A. C. Mott and A. C. Edgar .....	600,440	Mar. 8	1484	339	82	1522
Heating air for therapeutic or other purposes. Apparatus for .....	W. Taylor .....	608,928	Aug. 9	1402	331	84	945
Heating and drying system .....	C. C. Barbour .....	608,564	Aug. 2	697	158	84	794
Heating and evaporating liquids .....	A. G. Hoffmann .....	608,775	Aug. 9	1077	248	84	886
Heating and ventilating houses. System for .....	W. D. Dickson .....	611,359	Sept. 27	2230	515	84	1923
Heating and ventilating system .....	T. Hennessy .....	606,717	July 5	148	31, 32	84	31
Heating apparatus .....	E. Green .....	610,134	Aug. 30	3597	834	84	1417
Heating apparatus .....	B. F. Jackson .....	599,985	Mar. 1	564	130	82	1320
Heating apparatus .....	J. W. Yates .....	604,819	May 31	2911	666	83	1248
Heating apparatus. Air- .....	H. Baetz .....	604,013	May 17	1443	323	83	931
Heating apparatus. Hot-air .....	H. J. Piron .....	610,689	Sept. 13	982	228	84	1647
Heating apparatus. Hot-water .....	W. J. Miller .....	610,685	Sept. 13	977	227	84	1646
Heating apparatus. Steam .....	M. Leitch .....	614,658	Nov. 22	2562	583	85	1157
Heating-boiler .....	L. S. Daniels .....	602,831	Apr. 26	2161	490	83	455
Heating by electricity. System for .....	J. F. McElroy .....	608,211	Aug. 2	76	20	84	670
Heating by means of liquid hydrocarbons. Apparatus for .....	J. A. Rambaud .....	603,658	May 10	762	169	83	765
Heating device .....	A. Elmendorf .....	600,909	Mar. 22	2308	526	82	1711
Heating device .....	A. Elmendorf .....	600,910	Mar. 22	2311	527	82	1711
Heating, drying, and ventilating. Means for .....	J. Langfield .....	610,140	Aug. 30	3604	837	84	1418
Heating-furnace .....	A. Laughlin and C. Evans .....	599,146	Feb. 15	1832	434	82	984
Heating-furnace .....	A. Laughlin and J. Reuleaux .....	599,182	Feb. 15	1889	447	82	993
Heating-furnace .....	A. Laughlin and J. Reuleaux. (Re-issue) .....	11,666	May 31	3331	765	83	1329
Heating-furnace .....	J. P. Molby .....	610,273	Sept. 6	235	53	84	1488
Heating-furnace .....	E. Norton .....	608,264	Aug. 2	160	40	84	684
Heating or burning cylinder .....	C. B. Stowe .....	609,920	Aug. 30	3226	755	84	1342
Heating or cooling apparatus .....	J. C. Henderson .....	606,661	July 5	43	10	84	11
Heating or vulcanizing apparatus .....	G. W. Slater .....	606,364	June 28	2481	576	83	1881
Heating plate or wall .....	D. Grove .....	600,526	Mar. 15	1670	381	82	1577
Heating system. Electric- .....	J. F. McElroy .....	611,001	Sept. 20	1541	354	84	1773
Heating system. Steam- .....	A. G. Paul .....	604,335	May 17	2043	457	83	1046
Heating system. Water- .....	O. Schlemmer .....	598,327	Feb. 1	450	108	82	687
Heating utensil .....	J. H. Alexander .....	605,571	June 14	930	217	83	1552
Heddle .....	L. Knecht .....	597,149	Jan. 11	1208	283	82	251
Heddle-bar locking-clamp .....	M. J. Armstead .....	603,808	May 10	1023	228	83	816
Heddle for cross-weaving .....	J. B. Patterson .....	613,392	Nov. 1	319	73	85	677
Heddle for cross-weaving .....	R. Wharton .....	613,615	Nov. 1	705	163	85	751
Heddle. Switch- .....	J. Shinn .....	614,504	Nov. 22	2292	525	85	1108
Heel .....	W. B. Arnold .....	598,838	Feb. 8	1298	315	82	866
Heel .....	J. E. O'Neill .....	606,229	June 28	2228	511	83	1830
Heel and sole protectors for boots or shoes. Machine for setting .....	I. F. Peck .....	607,001	July 5	650	141	84	129
Heel and toe tip .....	D. A. Berry .....	607,729	July 19	2192	462	84	461
Heel. Boot or shoe spring- .....	E. L. Barber .....	614,688	Nov. 22	2632	596	85	1168
Heel-building machine .....	E. S. Gross .....	602,005	Apr. 5	724	154	83	137
Heel. Combination cushion and pneumatic boot or shoe .....	C. G. Hainline .....	615,167	Nov. 29	3525	810	85	1359
Heel-compressing machine .....	F. F. Raymond, 2d .....	598,256	Feb. 1	326	74, 75	82	663
Heel-cutting-machine feed .....	A. A. Hudson .....	607,041	July 12	730	157	84	162
Heel-finishing device .....	S. Ross .....	613,079	Oct. 25	2633	623	85	550
Heel finishing tool. Boot or shoe .....	Z. Beaudry .....	616,432	Dec. 20	2258	527	85	1886
Heel. Footwear- .....	J. Griffin .....	611,035	Sept. 20	1599	367	84	1784
Heel for boots or shoes. Cushioned .....	J. A. Safford .....	607,086	July 12	858	185	84	185
Heel for boots or shoes. Detachable .....	A. Maebert .....	606,016	June 21	1811	418	83	1732
Heel for boots or shoes. Rotary .....	D. McNabb .....	596,758	Jan. 4	543	124	82	104
Heel for boots or shoes. Rubber safety cushion- .....	J. W. Cross .....	613,360	Nov. 1	256	57	85	666
Heel for boots or shoes. Spring- .....	J. Bresman .....	601,549	Mar. 29	3421	776	82	1954
Heel-nailing machine .....	F. F. Raymond, 2d .....	599,012	Feb. 15	1610	382	82	942
Heel-nailing machine .....	H. W. Winter .....	611,370	Sept. 27	2249	522	84	1927
Heel-plate for boots or shoes. Cushioned .....	R. McKay .....	598,714	Feb. 8	1115	268	82	831
Heel-plate for men's shoes .....	M. Heiser .....	607,686	July 19	2124	445	84	447
Heel-protector .....	S. Holstein .....	596,878	Jan. 4	736	173	82	144
Heel-seat-trimming machine .....	G. O. Barbour .....	613,228	Nov. 1	5	2	85	618
Heel-seats and rands for boots or shoes. Cutter for trimming .....	O. L. Noble .....	605,647	June 14	1082	249	83	1579
Heel-shaver for shoemakers' use .....	H. Brinker .....	610,512	Sept. 6	698	157	84	1573
Heel. Shoe- .....	J. P. Buchholtz .....	596,847	Jan. 4	683	158	82	133
Heel slugging and nailing jack .....	L. A. Casgrain .....	609,874	Aug. 30	3147	735	84	1327
Heel-spring. Boot or shoe .....	G. E. Swan .....	604,805	May 31	2891	661	83	1245
Heel-trimming machine .....	B. F. Mayo .....	609,518	Aug. 23	2517	589	84	1191
Heel-trimming machine .....	A. McDowell .....	615,880	Dec. 13	1181	276	85	1656
Heel-trimming machine .....	H. W. Winter .....	611,371	Sept. 27	2262	523	84	1929
Heel-trimming machine. Boot or shoe .....	A. McDowell .....	615,092	Nov. 29	3392	777	85	1332
Hemmer .....	R. S. Irwin .....	615,557	Dec. 6	638	146	85	1536
Hermetic fastening for preserve or other tins .....	I. Bloch .....	601,787	Apr. 5	317	63	83	60
Hermetically-sealed can and opener for same .....	R. A. Sloan and J. E. L. Barnes .....	616,740	Dec. 27	2855	662	85	2021



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Hide, skin, or leather machinery	W. Evans	602,066	Apr. 12	825	179	83	168
Hides. Machine for removing hair from	N. A. Lundquist	598,204	Feb. 1	238	53	82	647
Hides or skins for transport. Curing	J. W. Scott	602,476	Apr. 19	1536	-----	83	322
Hides or skins. Liquid composition of matter for treating	H. Holmes	615,705	Dec. 13	893	-----	85	1601
Hides or skins. Machine for working	A. F. Jones	601,808	Apr. 5	352	72	83	66
Hides or skins. Machine for working	A. F. Jones	601,809	Apr. 5	358	73, 74	83	67
Hides or skins. Machine for working	W. B. Turner	615,656	Dec. 6	812	188 189	85	1572
Hides or skins. Treating and tanning	S. Millar and C. E. Miller	614,057	Nov. 8	1442	-----	85	914
Hides, skins, or leather. Machine for treating	J. Hall	599,331	Feb. 22	2166	514 515	82	1069
Hides, skins, or leather. Machine for treating	J. Hall	616,570	Dec. 27	2524	584 585	85	1957
High-frequency apparatus	T. B. Kinraide	615,652	Dec. 6	803	187	85	1571
Hill-dropper	S. L. Allen	614,415	Nov. 15	2126	489 490	85	1064
Hinge	G. N. Benson	604,713	May 31	2750	628	83	1218
Hinge	M. Donne and C. J. Mathias	602,500	Apr. 19	1567	357 358	83	328
Hinge	A. C. Eschweiler	615,690	Dec. 13	873	201	85	1597
Hinge	J. J. Farrar	603,897	May 10	1194	270	83	848
Hinge	M. Gallagher	596,698	Jan. 4	433	98	82	85
Hinge	M. Gallagher	614,098	Nov. 15	1528	350	85	952
Hinge	J. H. Giesey	607,432	July 19	1499	318 319	84	323
Hinge	H. D. Granger	602,846	Apr. 26	2187	496	83	460
Hinge	W. H. Hart	612,201	Oct. 11	1072	257	85	219
Hinge	F. R. Jones and F. S. Dearborn	607,050	July 12	774	169	84	169
Hinge	W. H. Moore	600,161	Mar. 8	1029	231	82	1435
Hinge	R. G. Park	605,509	June 14	824	191	83	1531
Hinge	E. Schmidt	611,742	Oct. 4	266	64	85	55
Hinge	J. Wood	612,471	Oct. 18	1555	372	85	323
Hinge. Adjustable	C. M. Elkins	611,468	Sept. 27	2446	563	84	1963
Hinge. Adjustable gate	J. R. Blankenship	597,383	Jan. 18	1601	372	82	346
Hinge. Adjustable jamb	L. M. Curry	609,756	Aug. 23	2941	687	84	1272
Hinge and check. Combined door	F. and H. F. Keil	607,858	July 26	2479	526	84	533
Hinge and door-check. Combined	F. and H. F. Keil	608,334	Aug. 2	307	68	84	717
Hinge and fastener. Combined	L. L. Pletcher	600,318	Mar. 8	1283	293	82	1484
Hinge. Box	T. S. Usher	611,423	Sept. 27	2367	543	84	1947
Hinge. Detachable	E. J. Blekkink	607,156	July 12	980	212	84	206
Hinge. Detachable	A. S. Held	600,263	Mar. 8	1203	273	82	1468
Hinge. Detachable	A. S. Held	606,925	July 5	514	113	84	102
Hinge. Door	C. Dietz	609,878	Aug. 30	3154	736	84	1329
Hinge. Door	C. H. Rembold	616,258	Dec. 20	1944	451	85	1824
Hinge fastening device	C. J. Conlon	601,241	Mar. 29	2877	656	82	1846
Hinge. Gate	J. R. Haldeman	605,420	June 7	697	155	83	1487
Hinge. Gate	J. C. Jones	611,325	Sept. 27	2164	500	84	1911
Hinge. Gate	H. F. Nehr	610,820	Sept. 13	1227	282	84	1796
Hinge. Gate	O. H. Peed	606,896	July 5	473	101 102	84	94
Hinge. Gate	H. Reno	610,243	Sept. 6	187	42	84	1478
Hinge. Lock	T. Corscaden	598,215	Feb. 1	258	57	82	651
Hinge. Lock	W. M. Hotaling	606,415	June 28	2577	596	83	1899
Hinge. Lock	M. C. Mulcahy	615,654	Dec. 6	808	187	85	1572
Hinge. Mirror	C. W. Judson	608,459	Aug. 2	517	116	84	758
Hinge. Roller spring	F. L. Barnick	607,728	July 19	2190	462	84	461
Hinge. Sash	H. M. Pitman	599,251	Feb. 15	2002	475	82	1015
Hinge. Self-locking	G. Schade	598,647	Feb. 8	994	241	82	808
Hinge. Separable suspension	R. G. Winter	610,010	Aug. 30	3402	788	84	1377
Hinge. Shutter	T. F. Langley	600,540	Mar. 15	1699	389	82	1583
Hinge. Spring	A. D. Anthony	604,165	May 17	1717	387	83	983
Hinge. Spring	J. K. and H. R. Clark	610,799	Sept. 13	1192	274	84	1690
Hinge. Spring	J. Keene	609,585	Aug. 23	2638	617	84	1214
Hinge. Swinging-sash	C. J. Clarke	600,405	Mar. 8	1425	326	82	1511
Hinge. Trunk	J. S. Isidor	609,277	Aug. 16	2088	495	84	1090
Hinge-washer. Antifriction	H. Leppert	605,105	June 7	66	19	83	1365
Hinges. Machine for manufacturing sheet-metal	C. F. Smith and G. Mortson	611,714	Oct. 4	214	51 52 53 54 55	85	45
Hitch and brake. Horse	A. H. Harryman	610,678	Sept. 13	967	223 224	84	1644
Hitch. Horse	F. W. Green	613,006	Oct. 25	2513	598	85	527
Hitching and gagging attachment	A. E. Lotstrom	614,015	Nov. 8	1383	317	85	902
Hitching device	T. M. Henderson and T. E. Freeman	602,750	Apr. 19	2004	454	83	410
Hitching device	F. Scheerer	610,088	Aug. 30	3526	817	84	1402
Hitching device. Horse	S. S. Joy	609,548	Aug. 23	2566	601	84	1201
Hitching device. Safety	E. Sutter and T. Reynolds	611,528	Sept. 27	2545	587	84	1982
Hitching or unhitching device	W. S. Endslow	602,313	Apr. 12	1259	278	83	254
Hitching-post	C. B. Mark	610,993	Sept. 20	1532	352	84	1771
Hitching-post	E. J. Sellers	598,017	Jan. 25	2690	628	82	571
Hitching-strap clamp	A. S. Hill	599,838	Mar. 1	311	70	82	1271
Hobby-horse	J. Johnck	597,702	Jan. 18	2151	502 503	82	450
Hobby-horse	L. L. Kellogg	613,375	Nov. 1	281	64	85	672
Hod. Mortar	W. G. Avery	604,287	May 17	1944	436	83	1028
Hoe	J. R. Kelley	609,355	Aug. 16	2215	524	84	1116
Hoe	E. O. Norwood	616,201	Dec. 20	1828	422	85	1800
Hoe	L. Rains	607,880	July 26	2517	533 534	84	540
Hoe	C. W. Watson	614,356	Nov. 15	2017	465	85	1043
Hoe and edge-trimmer. Combined	C. H. Purdy	607,273	July 12	1209	258	84	249
Hoe and rake. Interchangeable	S. B. Shigley	612,125	Oct. 11	951	230	85	196
Hoe or mattock	W. Watkins	610,570	Sept. 13	797	182	84	1608



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Hoe. Reversible	C. H. S. Schültz	612,179	Oct. 11	1039	249	85	213
Hoe. Shuffle	C. M. Brown	602,425	Apr. 19	1446	328	83	305
Hoe-sling	A. J. Carley	609,731	Aug. 23	2901	678	84	1264
Hoe. Sulky horse	C. H. Malkemus	598,603	Feb. 8	917	220	82	795
Hog-holding device	P. Authier	608,632	Aug. 9	832	192	84	838
Hog-nose cutter	S. H. Miller	610,911	Sept. 20	1380	316	84	1743
Hog-snout cutter	E. Manix	601,399	Mar. 29	3175	717	82	1908
Hog-trap	J. T. Geddis	616,309	Dec. 20	2033	473	85	1843
Hog-trough	R. J. Bailey	600,763	Mar. 15	2069	474	82	1653
Hoist. Cable	W. L. Garrels	598,178	Feb. 1	187	43	82	638
Hoist. Chain	J. W. Kincaid	609,939	Aug. 30	3261	762	84	1349
Hoist. Power	J. Des Brisay	611,777	Oct. 4	319	77	85	65
Hoist or windlass. Hand	G. E. and E. A. Truax	600,973	Mar. 22	2408	550	82	1730
Hoists. Automatic stop for	F. H. Kohlbraker	601,515	Mar. 29	3369	763 764	82	1942
Hoisting and conveying apparatus	J. Campbell	602,726	Apr. 19	1967	446 447	83	403
Hoisting and conveying apparatus	J. Campbell	604,893	May 31	3039	697 698	83	1273
Hoisting and conveying apparatus	A. H. De Camp	609,959	Aug. 30	3306	770	84	1358
Hoisting and conveying apparatus	A. H. De Camp	609,960	Aug. 30	3309	771	84	1359
Hoisting and conveying apparatus	A. H. De Camp	609,961	Aug. 30	3314	771	84	1360
Hoisting and conveying apparatus	J. H. Lancaster	605,884	June 21	1552	356 357	83	1686
Hoisting and conveying apparatus	H. R. Palmer	602,168	Apr. 12	1013	223	83	204
Hoisting and conveying apparatus. Cable	L. E. Laurent and E. E. Cherry	612,851	Oct. 25	2265	540	85	476
Hoisting and conveying apparatus for excavating, &c.	P. N. Jonte	608,405	Aug. 2	427	94, 95	84	741
Hoisting and conveying machine. Bucket	S. Jackson	602,851	Apr. 26	2192	497	83	461
Hoisting and conveying machines. Carriage mechanism for	H. Fuller	609,615	Aug. 23	2707	631 632	84	1226
Hoisting and lowering gear	R. Bell and R. Maguire	599,437	Feb. 22	2391	562	82	1114
Hoisting apparatus	G. A. Bidwell	610,318	Sept. 6	342	73	84	1507
Hoisting apparatus	S. L. Cooper and F. W. Keys	614,792	Nov. 22	2799	642	85	1203
Hoisting apparatus	H. S. Haskins and Z. B. Coes	602,580	Apr. 19	1703	388	83	352
Hoisting apparatus	R. Johnston	603,192	Apr. 26	2769	631 632	83	571
Hoisting apparatus	W. G. Miller	602,603	Apr. 19	1746	398	83	360
Hoisting apparatus	C. H. Nottor	600,499	Mar. 8	1620	370	82	1548
Hoisting apparatus	W. Sauer	599,360	Feb. 22	2229	530	82	1081
Hoisting apparatus	A. A. Strom	611,084	Sept. 20	1693	389 390	84	1802
Hoisting apparatus	W. J. Webster	596,836	Jan. 4	669	154	82	130
Hoisting apparatus. Spout	H. F. Kuss	609,683	Aug. 23	2832	661	84	1252
Hoisting, conveying, and storing apparatus	S. T. Wellman, J. W. Seaver, and C. H. Wellman.	614,913	Nov. 29	3030	693 694	85	1263
Hoisting device	E. O'Neill	596,908	Jan. 4	782	184	82	153
Hoisting device	R. Stewart and W. R. Winchel	604,802	May 31	2888	660	83	1244
Hoisting-engine automatic safety-stop	J. E. Richards	596,829	Jan. 4	657	151 152	82	127
Hoisting-machine	H. C. Behr and R. E. Browne	611,311	Sept. 27	2139	494 495	84	1907
Hoisting-machine	J. H. Lancaster	604,900	May 31	3050	700 701	83	1276
Hoisting-machine	W. B. Lewis	600,729	Mar. 15	2014	459	82	1642
Hoisting-machine	J. N. Wagoner	610,933	Sept. 20	1419	326	84	1750
Hoisting machinery. Electrically-operated	A. J. Shaw	600,092	Mar. 1	853	196 197	82	1381
Hoisting or lifting apparatus	F. Louis	611,263	Sept. 27	2039	470 471 472	84	1888
Holdback	F. B. Lagrange	607,803	July 19	2349	496	84	491
Holdback. Adjustable	F. Sier	605,020	May 31	3247	746	83	1314
Holdback and whiffletree. Combined	W. B. Frost	616,098	Dec. 20	1619	379	85	1759
Holdback attachment. Vehicle	R. W. Pratt	596,617	Jan. 4	282	62	82	57
Holdback device	O. P. Baker	603,420	May 3	305	69	83	658
Holdback-fastener	C. E. Waters	600,103	Mar. 1	875	201	82	1385
Holdback-hook	I. Wisse	607,499	July 19	1792	373	84	387
Holder	E. A. Losee	614,116	Nov. 15	1566	358	85	959
Holder	E. A. Losee	614,117	Nov. 15	1567	358	85	959
Hollow bodies. Blank for manufacturing	C. Meyer	598,800	Feb. 8	1241	300	82	855
Honeycomb-foundations. Machine for making artificial	E. B. Weed	598,060	Jan. 25	2761	644	82	586
Honeycomb-foundations. Machine for papering and piling artificial	E. B. Weed	610,252	Sept. 6	200	45	84	1481
Hoof-pad	C. J. Horton	606,343	June 28	2443	566	83	1874
Hook:							
See Back-band hook.	Harness-hook.						
Bag-hook.	Hat and coat hook.						
Bale or box hook.	Holdback-hook.						
Bill-hook.	Lacing-hook.						
Cant-hook.	Ladder-hook.						
Check-hook.	Pail-hook.						
Coat-hook.	Paint-pot hook.						
Coat and hat hook.	Pipe-hook.						
Fish-hook.	Rope-clamping hook.						
Garment-hook.	Singletree-hook.						
Garment or other hook.	Slip-hook.						
Gate-hook.	Snap-hook.						
Grappling-hook.	Sword-slinging hook.						
	Whiffletree-hook.						
Hook	G. L. Baker	610,884	Sept. 20	1340	306	84	1735
Hook	R. A. Coachman	601,240	Mar. 29	2876	656	82	1846
Hook	C. E. Krebs	601,267	Mar. 29	2947	667	82	1861
Hook	J. L. McVay	607,123	July 12	919	199	84	196
Hook	J. N. Moehn	600,548	Mar. 15	1710	391	82	1585



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Hook and bushing for same	J. W. Carder	603,373	May 3	222	49	83	613
Hook and eye	M. Adam	599,758	Mar. 1	150	35	82	1244
Hook and eye	F. A. Carveth	616,402	Dec. 20	2209	515	85	1876
Hook and eye	H. J. Halle	600,946	Mar. 22	2371	539	82	1723
Hook and eye	E. A. Johnson	610,710	Sept. 13	1025	237	84	1657
Hook and eye	F. Meyers	600,087	Mar. 1	846	194	82	1380
Hook and eye	C. F. Robbins	601,816	Apr. 5	368	77	83	69
Hook and eye	F. W. Wall	598,169	Feb. 1	161	39	82	633
Hook and eye	P. Young, (now by marriage P. Young Weeks)	604,135	May 17	1668	375	83	973
Hook-and-eye-fastening hook	B. F. Orewiler	607,189	July 12	1039	224	84	217
Hook-and-ladder truck, &c., and fire-escape. Combination	T. W. Ford and J. A. Lee, Sr.	596,676	Jan. 4	384	86, 87	82	76
Hoop:							
See Barrel-hoop. Trundle-hoop.							
Embroidery-hoop.							
Hoops and securing ends thereof. Machine for sizing barrel-	C. O. White	597,701	Jan. 18	2146	501 502	82	449
Hoop flaring and bending machine. Metal-	E. and B. Holmes	609,807	Aug. 30	3034	710	84	1304
Hoop-lug	D. C. Henny	616,535	Dec. 27	2469	571	85	1947
Hoop-sawing machine. Barrel-	T. C. Seekel	605,349	June 7	565	125	83	1460
Hoops for rims, &c. Machine for bending	R. A. Gibson	597,463	Jan. 18	1753	405	82	374
Hoops. Impelling device for bowling-	J. D. Hefley	616,707	Dec. 27	2796	648	85	2008
Hooping casks, barrels, or the like. Machinery for	J. Anthon	610,221	Sept. 6	149	33, 34	84	1471
Horn or similar material. Process of and apparatus for utilizing	A. Mitscherlich	602,237	Apr. 12	1123	247	83	226
Horse-boot	E. Crall	614,842	Nov. 29	2888	665	85	1236
Horse-boots, &c. Suspending device for	P. Meissner	601,974	Apr. 5	680	144	83	129
Horse-check	H. E. McCormac	596,529	Jan. 4	120	27	82	25
Horse check and hitching device	D. M. Forsyth	606,836	July 5	380	81	84	75
Horse-checking device. Runaway-	J. McKenzie	611,702	Oct. 4	198	46, 47	85	41
Horse-controlling device	G. A. Hidden	605,045	May 31	3291	753	83	1322
Horse-detacher.	A. and A. Baatz	609,724	Aug. 23	2893	676	84	1263
Horse-detacher.	J. E. Berkstresser	609,194	Aug. 16	1912	455	84	1054
Horse-detacher.	J. G. Copeland	599,223	Feb. 15	1954	463	82	1006
Horse-detacher.	R. L. Gauntner	610,484	Sept. 6	641	143	84	1561
Horse-detacher.	C. B. Hardin and J. D. Mosby	604,469	May 24	2301	523	83	1115
Horse-detacher.	C. F. Kincheloe	606,419	June 28	2592	598	83	1902
Horse-detacher.	N. McAulay	615,091	Nov. 29	3391	776	85	1332
Horse-detacher.	J. S. Napier	600,207	Mar. 8	1101	251	82	1450
Horse-detacher.	J. P. Ponton	597,363	Jan. 11	1562	364	82	321
Horse-detacher.	J. Staley	603,434	May 3	331	74	83	693
Horse-detacher.	J. B. Taylor	611,342	Sept. 27	2192	507	84	1916
Horse-detacher and wheel-lock. Combined.	P. W. Peters	607,547	July 19	1878	390	84	403
Horse-detaching device	H. Michael	611,738	Oct. 4	261	62	85	53
Horse-detaching device	C. E. Taylor	609,921	Aug. 30	3227	756	84	1342
Horse. Folding	H. Kaganovsky	598,100	Feb. 1	55	13	82	613
Horse-foot-leveling device	F. A. Millett	602,952	Apr. 26	2371	540 541	83	496
Horse-power	A. J. Boyce	615,473	Dec. 6	482	112	85	1505
Horse-power	E. Lambert	612,739	Oct. 18	2032	482	85	413
Horse-power	L. R. White	610,595	Sept. 13	845	194	84	1619
Horse-rake	C. L. Alexander	602,535	Apr. 19	1632	372	83	339
Horse-rake	J. H. Randolph	610,663	Sept. 13	943	219	84	1640
Horse-releaser	A. I. Grossman	600,310	Mar. 8	1271	290	82	1482
Horse-releasing device	J. B. Martin and C. T. Gamble	610,995	Sept. 20	1534	352	84	1772
Horse-retainer	H. A. Stevens	611,654	Oct. 4	110	27	85	24
Horses. Apparatus for checking runaway	J. M. Singleton	609,841	Aug. 30	3094	722	84	1317
Horseshoe	E. Anderson	601,541	Mar. 29	3409	773	82	1952
Horseshoe. Cushioned	G. W. Davenport	610,476	Sept. 6	625	140	84	1558
Horseshoe	J. Drew	616,413	Dec. 20	2325	519	85	1879
Horseshoe	M. C. Gray	611,731	Oct. 4	252	60	85	51
Horseshoe	N. Harding	613,991	Nov. 8	1347	306 307	85	895
Horseshoe	W. S. Hitch	602,046	Apr. 5	792	171	83	150
Horseshoe	P. and J. P. Hoppesch	613,883	Nov. 8	1180	269	85	862
Horseshoe	W. R. Kinnear	599,712	Mar. 1	65	15	82	1229
Horseshoe	N. L. Olson	603,573	May 3	600	133	83	718
Horseshoe	J. W. Outlaw	614,273	Nov. 15	1860	430	85	1013
Horseshoe	D. and H. Paar	598,482	Feb. 1	704	171	82	736
Horseshoe	H. Paar	608,156	July 26	2996	643	84	636
Horseshoe	J. G. Parsons	615,303	Dec. 6	145	38	85	1441
Horseshoe	L. M. Serbán	611,287	Sept. 27	2100	483	84	1899
Horseshoe	E. F. Smith	604,091	May 17	1590	357	83	958
Horseshoe	D. and A. Sombaty	607,713	July 19	2172	457	84	456
Horseshoe	B. F. Spry	615,317	Dec. 6	164	43	85	1445
Horseshoe	J. B. Wallace	601,028	Mar. 22	2511	571	82	1749
Horseshoe	J. Wernitz	612,290	Oct. 11	1245	299	85	251
Horseshoe	R. S. Wiesenfeld	609,132	Aug. 16	1805	430	84	1034
Horseshoe and removable calk therefor	J. McDonough	606,875	July 5	445	95	84	88
Horseshoe-calk	H. Olson	599,350	Feb. 22	2206	523	82	1077
Horseshoe-calk	R. Whitaker	605,766	June 14	1282	297	83	1617
Horseshoe-calk	R. Whitaker	610,212	Sept. 6	108	24	84	1461
Horseshoe-calk-grinding machine	M. A. Ross	610,725	Sept. 13	1051	241	84	1662
Horseshoe-calk. Removable	W. J. Browning	603,360	May 3	199	45	83	640
Horseshoe. Combination	C. H. Greenwell	610,965	Sept. 20	1475	337	84	1761
Horseshoe. Cushioned	G. H. Fitzgerald	598,144	Feb. 1	121	28	82	625
Horseshoe. Cushioned	P. Krumscheid	602,387	Apr. 12	1380	309	83	278
Horseshoe. Cushioned	L. D. Saxton	600,555	Mar. 15	1722	393	82	1587
Horseshoe. Elastic	T. M. Miller	602,236	Apr. 12	1121	246	83	225
Horseshoe. Elastic-cushioned	G. Greenwood	602,622	Apr. 19	1783	407	83	367
Horseshoe. Elastic-tread	W. Galley	610,324	Sept. 6	352	75	84	1508
Horseshoe. Elastic-tread	J. B. Gravis	601,038	Mar. 22	2524	574	82	1751
Horseshoe. Elastic-tread	W. B. Hopkins	603,468	May 3	403	90	83	679
Horseshoe. Expansible	L. P. Touchet	607,199	July 12	1053	228	84	220
Horseshoe. Hoof-spreading.	E. S. Barrows	604,014	May 17	1444	323	83	931



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Horseshoe-ice-creeper attachment	H. A. Kendall	612,206	Oct. 11	1082	259	85	221
Horseshoe-making machine	T. Allwood	614,527	Nov. 22	2321	532	85	1113
Horseshoe-manufacturing machine	A. H. Coe	599,684	Mar. 1	13	3, 4	82	1219
Horseshoe. Marsh-	W. H. Bordner	603,675	May 10	793	174	83	772
Horseshoe-nail clencher and hoof-trimmer	M. Schmitt	603,975	May 10	1315	302	83	872
Horseshoe-nails. Machine for finishing forged	H. A. Williams	615,377	Dec. 6	297	69 70 71	85	1471
Horseshoe. Nailless	J. C. Jackson	598,152	Feb. 1	131	30	82	627
Horseshoe. Nailless	J. F. and C. J. Rupert	600,744	Mar. 15	2040	466	82	1648
Horseshoe. Nailless	J. F. A. Winkelmann	599,085	Feb. 15	1725	409	82	966
Horseshoe. Non-slipping	B. P. M. Lang	609,551	Aug. 23	2571	602	84	1201
Horseshoe-pad	J. J. Hughes	600,078	Mar. 1	822	189	82	1375
Horseshoe-pad	J. Kress	599,908	Mar. 1	444	98	82	1298
Horseshoe-pad	C. Sheather	607,196	July 12	1050	227	84	219
Horseshoe-pad	J. Sheehan	609,708	Aug. 23	2873	671	84	1259
Horseshoe-pad	J. Stanley	597,549	Jan. 18	1885	437	82	401
Horseshoe-pad	J. Sweeney	602,485	Apr. 19	1547	352	83	324
Horseshoe-plate. Calked	W. H. Orr	613,709	Nov. 8	868	200	85	802
Horseshoe. Rope-tread	A. Fremerey	604,034	May 17	1474	330	83	937
Horseshoe. Soft-ground	L. Brigham	600,960	Mar. 22	2391	545	82	1727
Horseshoe. Soft-tread	R. Evans	610,804	Sept. 13	1199	276	84	1691
Horseshoe. Soft-tread	J. W. Ford	614,803	Nov. 22	2822	650	85	1208
Horseshoe. Soft-tread	M. C. Gray	611,730	Oct. 4	250	60	85	51
Horseshoe. Soft-tread	M. C. Gray	612,200	Oct. 11	1070	257	85	219
Horseshoe. Soft-tread	A. M. Meisner	612,953	Oct. 25	2429	578	85	509
Horseshoe. Soft-tread	J. Patrick	607,190	July 12	1041	225	84	218
Horseshoe. Soft-tread	R. S. Wiesenfeld	604,816	May 31	2908	665	83	1248
Horseshoe. Soft-tread	G. Wertz	614,521	Nov. 22	2315	530	85	1112
Horseshoe. Spring-tread	W. H. Boyd	596,649	Jan. 4	337	73	82	67
Horseshoe. Supplementary	R. H. Langdale	607,659	July 19	2059	436	84	441
Horseshoe toe-calks. Machine for making	J. T. Varney	599,952	Mar. 1	515	117	82	1310
Horseshoe. Two-part	L. Dietrich	599,958	Mar. 1	526	120	82	1312
Horseshoe. Two-part	L. Dietrich	600,517	Mar. 15	1652	377	82	1573
Horseshoe with removable calks	N. Svenson	611,717	Oct. 4	225	56	85	46
Horseshoe's gage	J. E. Platt	616,256	Dec. 20	1941	451	85	1823
Horseshoeing apparatus	F. Ellsworth	597,317	Jan. 11	1470	344 345	82	303
Horse soaking-boot	G. W. Dillon	615,437	Dec. 6	412	98	85	1493
Hose-attaching device for rock-drills	P. H. Reardon	607,955	July 26	2643	561	84	564
Hose-bridge	W. H. Wolf	603,866	May 10	1141	257	83	838
Hose-clamp	G. E. Thomas	597,443	Jan. 18	1717	396	82	367
Hose. Clamp for handling hydraulic	P. J. Doyle	601,639	Apr. 5	27	6	83	7
Hose-cleaner	J. R. Cochran	616,696	Dec. 27	2778	646	85	2005
Hose-cleaner	W. A. Huebner	597,185	Jan. 11	1267	297	82	263
Hose-coupling	A. L. Bailey	600,505	Mar. 15	1633	372	82	1570
Hose-coupling	J. Dustin and P. E. Bellows	613,061	Oct. 25	2606	617	85	546
Hose-coupling	B. F. Farrow	611,618	Oct. 4	41	10	85	11
Hose-coupling	D. J. Harding	599,782	Mar. 1	187	47	82	1251
Hose-coupling	M. C. Hoard	602,756	Apr. 19	2013	456	83	411
Hose-coupling	W. E. Jones	615,279	Dec. 6	110	29	85	1434
Hose-coupling	F. H. Marshall	602,863	Apr. 26	2207	500	83	464
Hose-coupling	J. N. McLean	603,222	Apr. 26	2817	643	83	580
Hose-coupling	J. C. Poetz	614,888	Nov. 29	2986	684	85	1255
Hose-coupling	P. Riehl, Jr.	603,366	May 3	206	47	83	641
Hose-coupling	F. C. Smith	614,509	Nov. 22	2300	527	85	1109
Hose-coupling	C. A. Wood	609,488	Aug. 23	2476	578	84	1184
Hose-coupling	F. A. Wunderlich	603,460	May 3	393	88	83	677
Hose coupling. Air-	J. S. Arkins	598,758	Feb. 8	1181	233 234	82	843
Hose-coupling. Automatic	W. A. Sutfin	605,238	June 7	333	77	83	1414
Hose-coupling dust-guard	W. H. Stark	600,386	Mar. 8	1391	318	82	1505
Hose-coupling reshaper	G. W. Wallis	601,689	Apr. 5	119	23	83	25
Hose-coupling. Swivel	D. B. Smith	601,683	Apr. 5	107	21	83	23
Hose. Golf-	G. E. Beers	613,656	Nov. 8	766	175	85	783
Hose-hanger	B. S. McClellan	596,821	Jan. 4	645	148	82	125
Hose holder or support	W. S. Augst	596,689	Jan. 4	411	92, 93	82	81
Hose-machine	R. T. Burchell	612,766	Oct. 18	2085	494 495	85	423
Hose-nipple	C. H. Dale	602,617	Apr. 19	1771	404	83	365
Hose-nozzle	J. H. Fry	604,036	May 17	1476	331	83	937
Hose-nozzle	A. D. Laws	599,967	Mar. 1	538	123	82	1315
Hose-nozzle	G. E. Schraubstadter	612,934	Oct. 25	2399	572	85	504
Hose-nozzle	R. Wise	604,554	May 24	2456	558	83	1141
Hose-nozzle attachment	E. D. Kellerman	597,648	Jan. 18	2047	478	82	433
Hose-pipe connection	F. L. Decarie	599,224	Feb. 15	1955	463	82	1007
Hose-pipe nozzle and spraying device. Combined	W. P. Wilson	603,750	May 10	914	202	83	795
Hose-rack	E. Cliff	608,651	Aug. 9	868	200	84	845
Hose-rack	I. R. Devendorf and C. L. Earl, Jr.	604,231	May 17	1839	412	83	1007
Hose rack or support	H. J. M. Howard	601,653	Apr. 5	52	10	83	11
Hose-reel	C. W. Ruby	603,207	Apr. 26	2790	637	83	575
Hose-reel	G. Bossow	611,767	Oct. 4	301	72	85	62
Hose-reel	E. Cliff	597,100	Jan. 11	1137	269	82	238
Hose-reel	E. Cliff	601,632	Apr. 5	13	3	83	5
Hose-reel	E. Cliff	601,633	Apr. 5	15	4	83	5
Hose-reel	E. Cliff	602,057	Apr. 12	808	175	83	165
Hose-reel	H. J. M. Howard	613,515	Nov. 1	545	123 124	85	719
Hose-reel	W. W. Stewart	600,274	Mar. 8	1221	277	82	1472
Hose-reel. Bracket	S. J. Meeker	600,333	Mar. 8	1309	299	82	1489
Hose spray attachment	R. Orford	612,433	Oct. 18	1485	358	85	310
Hose-supporter	R. Gorton	607,742	July 19	2214	468	84	465
Hose-supporter	D. Harrison	605,480	June 14	779	179	83	1523
Hose-supporter	J. J. Nealon	603,430	May 3	322	72	83	661
Hose-wagon	C. T. Holloway	596,776	Jan. 4	571	131	82	110
Hot-air furnace	A. Bair	601,115	Mar. 22	2645	604	82	1776



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Hot-air furnace	A. R. Blasse	603,809	May 10	1025	228	83	817
Hot-air furnace	J. T. and T. R. Brien	607,793	July 19	2306	486 487	84	482
Hot-air furnace	J. Evans	610,037	Aug. 30	3450	799	84	1386
Hot-air furnace, &c	T. G. Neal	605,329	June 7	512	114	83	1451
Hot-air furnace	R. and E. H. Robinson	605,517	June 14	834	194	83	1533
Hot-air furnace	L. Steelman	597,091	Jan. 11	1120	264	82	235
Hot-air furnace	H. A. Tinkham	604,552	May 24	2453	557 558	83	1141
Hot-air furnace	T. Walker	612,369	Oct. 11	1376	333	85	276
Hot-air furnace	J. T. Warren	601,822	Apr. 5	379	79, 80	83	71
Hot-air furnace	H. L. Wingert	606,752	July 5	220	47, 48	84	45
Hot appliance	C. W. Spurr, Jr.	602,810	Apr. 19	2116	477	83	430
Hot-blast apparatus	O. S. Garretson	596,494	Jan. 4	51	12	82	13
Hothouse tile bench	W. P. Wight	602,649	Apr. 19	1830	417	83	376
Hot-water and steam boiler	E. S. Manny	597,683	Jan. 18	2111	494	82	443
Hot-water boiler or tank	J. H. Stone	616,030	Dec. 13	1480	346	85	1715
Hot-water cylinder and valve mechanism and connections therefor.	R. A. Brooks	608,148	July 26	2979	639	84	633
Hot-water furnace	T. J. Best	612,153	Oct. 11	995	241	85	204
Hot-water heater	J. T. Grimshaw and J. E. Kenisell	596,498	Jan. 4	58	13	82	14
Hot-water heater	J. White	604,484	May 24	2333	529	83	1120
House: See Dry-house. Poultry-house. Knockdown house. Power-house. Portable house.							
Household use. Combination article for	C. E. Kuhn	616,337	Dec. 20	2085	486	85	1851
Hub	C. W. Robinson	607,082	July 12	852	184	84	184
Hub and box. Vehicle	H. W. Denham	597,711	Jan. 25	2164	506	82	471
Hub-attaching device	S. Day	597,315	Jan. 11	1466	344	82	302
Hub-attaching device	G. W. Emerick	608,364	Aug. 2	350	76	84	725
Hub cap and nut. Combined	J. A. Crandall	604,913	May 31	3085	708	83	1282
Hub-casing. Metallic	O. L. Warner	610,112	Aug. 30	3555	824	84	1408
Hub. Expanding	L. F. Vollrath	604,278	May 17	1930	432	83	1025
Hub for vehicle-wheels. Pneumatic	E. C. Smith	615,759	Dec. 13	988	230	85	1619
Hub-holding device	D. R. Collier and C. C. Rathburn	610,167	Sept. 6	12	4	84	1445
Hub locking device. Wheel	I. F. Bassford	597,757	Jan. 25	2240	521	82	486
Hub. Pneumatic wheel	W. A. Kōneman	599,907	Mar. 1	443	98	82	1297
Hub. Vehicle	W. H. Bentley and J. E. Roberts	608,099	July 26	2905	622	84	619
Hub. Vehicle	R. Eichstaedt	612,159	Oct. 11	1012	243 244	85	208
Hub. Vehicle	W. A. Emmerson	601,615	Mar. 29	3519	802	82	1972
Hub. Vehicle	W. T. Lewis	606,350	June 23	2452	568	83	1875
Hub. Vehicle	W. D. Snider and A. G. Snow	614,669	Nov. 22	2589	588	85	1161
Hub. Vehicle-wheel	J. W. Beard	616,650	Dec. 27	2682	621	85	1986
Hub. Vehicle-wheel	T. Kierakowicz and J. Lucas	614,726	Nov. 22	2693	614	85	1182
Hub. Vehicle-wheel	G. A. Krohn	601,853	Apr. 5	457	92	83	85
Hub. Vehicle-wheel spring	C. C. Ballin	611,095	Sept. 20	1718	394	84	1807
Hub. Vehicle-wheel spring	W. W. Lacey	610,607	Sept. 13	860	197	84	1622
Hub. Wheel	W. H. Mather	613,701	Nov. 8	841	193	85	798
Hub. Wheel	E. M. Miers	610,629	Sept. 13	892	204 205	84	1629
Hub. Wheel	A. Sirotich	615,640	Dec. 6	785	182	85	1568
Hub. Wheel	G. A. Skarin	605,208	June 7	280	65	83	1403
Hub. Wheel	I. A. Weston	598,041	Jan. 25	2726	636	82	578
Hubs and machinery therefor. Manufacture of wheel	H. J. Brookes and A. B. Davis	608,950	Aug. 9	1437	338 339	84	951
Hubs, couplings, or the like to shafts. Means for connecting	G. C. Howard	602,181	Apr. 12	1032	226	83	208
Hubs. Means for manufacturing wheel	R. Chillingworth	606,046	June 21	1868	430	83	1742
Huller: See Almond-huller. Pea-huller.							
Humidifier	R. C. Ulbrich	607,970	July 26	2668	570	84	569
Hurdle	J. Foster	615,443	Dec. 6	426	101	85	1495
Husking-pin	H. H. Perkins	598,744	Feb. 8	1160	278	82	839
Husking-pin	W. H. Tyler	608,808	Aug. 9	1148	266	84	899
Husking-roll	S. S. Creider	613,249	Nov. 1	40	10	85	625
Hydrant	S. L. Bartholomew	612,941	Oct. 25	2409	574	85	505
Hydrant	M. P. Elgen	601,244	Mar. 29	2882	657	82	1848
Hydrant	S. Feinstein and M. Wieselmann	612,898	Oct. 25	2347	558 559	85	492
Hydrant	J. J. Hardy	609,805	Aug. 30	3031	709 710	84	1303
Hydrant	J. Kaiser	601,378	Mar. 29	3129	706	82	1895
Hydrant	H. M. Kunz	609,105	Aug. 16	1769	421	84	1027
Hydrant	D. F. Luse	613,695	Nov. 8	827	189 190	85	794
Hydrant and stand-pipe	L. Genest	604,611	May 24	2550	582	83	1161
Hydrant-box	C. G. Shotts, Jr., and W. K. Webb	613,914	Nov. 8	1219	278	85	869
Hydrant. Hose	H. M. Kunz	609,104	Aug. 16	1766	420	84	1026
Hydrant, stop-valve, or the like	C. Jones	601,967	Apr. 5	670	142	83	127
Hydraulic brake	F. L. Clark	615,140	Nov. 29	3468	796	85	1348
Hydraulic brake	F. L. Clark	615,141	Nov. 29	3471	796 797	85	1348
Hydraulic elevator	L. Kramer	603,566	May 3	591	131	83	715
Hydraulic engine	J. Gill	606,337	June 28	2433	563 564	83	1872
Hydraulic jack	F. C. Brooks	605,630	June 14	1054	242	83	1573
Hydraulic lubricator	J. E. Spencer	602,371	Apr. 12	1349	301	83	272
Hydraulic motor	A. Roberts	600,173	Mar. 8	1050	237	82	1439
Hydraulic motor or water-wheel	J. R. De Remer	611,406	Sept. 27	2330	537	84	1942
Hydraulic-motor-regulating device	A. J. L. Loretz	605,169	June 7	198	50	83	1388
Hydraulic press	L. P. Landtved	607,442	July 19	1512	322 340	84	325
Hydraulic press	F. M. Leavitt	604,056	May 17	1514	341 342	83	945
Hydraulic presses. Pressure-controlling valve mechanism for	W. W. Price	613,716	Nov. 8	875	203	85	803



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hydraulic separator for treating mixed minerals.....	W. S. Lockhart.....	607,755	July 19	2236	472 473	84	469
Hydraulic system for operating reciprocating mechanism.	W. B. Cowles.....	608,888	Aug. 9	1227	286 287	84	911
Hydrocarbon-burner.....	D. W. Bowman and E. R. Kinney.....	608,025	July 26	2796	594	84	597
Hydrocarbon-burner.....	T. J. Brough. (Reissue).....	11,657	Mar. 22	2846	650	82	1813
Hydrocarbon-burner.....	J. F. Call.....	615,211	Nov. 29	3636	835	85	1381
Hydrocarbon-burner.....	G. E. Haggerty.....	597,197	Jan. 11	1288	301	82	267
Hydrocarbon-burner.....	J. Johnston.....	608,290	Aug. 2	211	50	84	697
Hydrocarbon-burner.....	C. R. Kittle.....	605,200	June 7	257	60	83	1399
Hydrocarbon-burner.....	J. M. Merritt and B. F. Goodrich.....	605,554	June 14	893	208	83	1545
Hydrocarbon-burner.....	O. P. Moon and H. L. Marbach.....	608,785	Aug. 9	1093	252 253	84	888
Hydrocarbon-burner.....	J. Reidenbaugh.....	603,740	May 10	894	199	83	791
Hydrocarbon-burner.....	A. P. A. Rosenstar.....	607,136	July 12	942	204	84	200
Hydrocarbon-burner.....	H. Ruppel.....	616,425	Dec. 20	2249	524	85	1884
Hydrocarbon-burner.....	L. T. Scherer.....	609,838	Aug. 30	3090	721	84	1316
Hydrocarbon-burner.....	G. H. Sherman.....	614,030	Nov. 8	1401	321	85	906
Hydrocarbon-burner.....	D. Ward.....	609,855	Aug. 30	3112	727	84	1320
Hydrocarbon-burner.....	J. H. White.....	599,577	Feb. 22	2646	620	82	1162
Hydrocarbon-burner. Incandescent.....	P. B. Curran.....	614,536	Nov. 22	2336	535	85	1117
Hydrocarbon burner. Liquid.....	G. W. Prescott.....	606,238	June 28	2242	517 518	83	1832
Hydrocarbon-burning apparatus or lamp.....	F. R. Blount.....	614,079	Nov. 15	1492	342	85	945
Hydrocarbon-burning apparatus or lamp.....	F. R. Blount.....	614,080	Nov. 15	1495	342	85	946
Hydrocarbon-burning apparatus or lamp.....	F. R. Blount.....	614,081	Nov. 15	1496	343	85	947
Hydrocarbon-burning apparatus or lamp.....	F. R. Blount.....	614,417	Nov. 15	2130	490	85	1065
Hydrocarbon-burning apparatus or lamp.....	F. R. Blount.....	614,418	Nov. 15	2131	491	85	1065
Hydrocarbon-burning furnace.....	C. M. Gearing.....	615,445	Dec. 6	427	102	85	1495
Hydrocarbon-burning mechanism.....	W. L. Mersfelder.....	607,694	July 19	2143	451	84	450
Hydrocarbon incandescent burner.....	R. Biddle, Jr., and E. J. Frost.....	609,653	Aug. 23	2784	649	84	1242
Hydrocarbon-motor.....	E. Wiseman and J. Holroyd.....	600,107	Mar. 1	881	202 203	82	1386
Hydrocarbon-motor.....	E. Wiseman and J. Holroyd.....	600,974	Mar. 22	2409	550 551	82	1730
Hydrocarbon-oil burner.....	T. Willi.....	612,888	Oct. 25	2331	555	85	489
Hydrogen. Apparatus for manufacturing carburated	W. H. and G. E. Russell.....	602,408	Apr. 12	1415	320	83	285
Hysteresis-meter.....	J. L. W. Gill.....	615,695	Dec. 13	881	203 204	85	1598
Ice. Apparatus for cutting canals through.....	C. Steiner.....	614,142	Nov. 15	1610	369	85	968
Ice. Apparatus for making clear can-ice-cream, confections, &c. Mold for	J. E. Simon.....	614,773	Nov. 22	2765	632	85	1197
Ice-cream freezer.....	Z. W. Harris.....	609,025	Aug. 16	1596	380	84	996
Ice-cream freezer.....	J. A. E. Anderson.....	603,227	Apr. 26	2831	646	83	583
Ice-cream freezer.....	T. Bagley.....	600,571	Mar. 15	1749	399	82	1591
Ice-cream freezer.....	E. C. Hill.....	605,606	June 14	1003	231	83	1564
Ice-cream freezer.....	R. L. Porter and J. D. Faulkner.....	604,214	May 17	1812	407	83	1002
Ice-cream freezer.....	F. M. Snook.....	597,918	Jan. 25	2514	588	82	537
Ice-cream-freezer dasher.....	C. Aichele.....	609,322	Aug. 16	2167	512	84	1106
Ice-cream mold and disher.....	H. A. Weber.....	599,157	Feb. 15	1853	439	82	987
Ice-creeper.....	J. W. Brayman.....	610,842	Sept. 13	1258	290	84	1703
Ice-creeper.....	K. P. Degge.....	607,508	July 19	1808	376	84	390
Ice-creeper.....	A. Grunewald.....	613,445	Nov. 1	422	97	85	697
Ice-creeper.....	A. Heller.....	613,200	Oct. 25	2819	667	85	588
Ice-cutting machine.....	C. R. Lawwill.....	614,731	Nov. 22	2701	615	85	1184
Ice-handling machinery.....	A. Gifford.....	604,007	May 10	1424	318 319	83	897
Ice-loader.....	J. A. Koontz.....	608,686	Aug. 9	931	214	84	859
Ice-machine freezing-tank.....	T. Shipley.....	616,640	Dec. 27	2657	615 616	85	1982
Ice-machine preliminary cooler.....	R. F. Schroeder.....	609,999	Aug. 30	3384	785	84	1373
Ice-machines. Ammonia-gas compressor for.....	J. J. Bailey.....	612,226	Oct. 11	1117	268	85	228
Ice-making apparatus.....	T. L. Rankin.....	607,764	July 19	2250	475 476	84	472
Ice-making apparatus.....	T. L. Rankin.....	607,765	July 19	2253	476	84	473
Ice plows and markers. Gage for teeth of	J. N. Briggs.....	598,240	Feb. 1	292	66, 67	82	657
Ice. Producing.....	G. Koser.....	609,814	Aug. 30	3047	712	84	1306
Ice-shaver.....	J. B. Bailly.....	596,566	Jan. 4	185	42	82	37
Ice-tongs.....	D. R. Cotner.....	597,958	Jan. 25	2588	605	82	552
Ice-tongs.....	I. L. Edwards.....	608,848	Aug. 9	1254	292	84	917
Identifying device.....	G. W. Busch.....	601,869	Apr. 5	483	99	83	90
Igniters. Generator for electrical.....	B. McInnerney.....	608,895	Aug. 9	1320	308	84	930
Igniters. Generator for electrical.....	B. McInnerney.....	608,896	Aug. 9	1321	308	84	930
Igniting device.....	J. T. Armstrong and A. Orling.....	601,069	Mar. 22	2575	587 588	82	1762
Igniting device.....	A. J. Sterne.....	609,749	Aug. 23	2929	685	84	1270
Illuminating apparatus.....	L. B. Allen.....	608,745	Aug. 9	1032	236	84	877
Illusion apparatus.....	A. Pusterla.....	608,413	Aug. 2	443	98, 99	84	744
Illusion cabinet. Optical.....	A. B. Carrington.....	609,009	Aug. 16	1564	372	84	991
Impact-tool.....	T. R. Browne.....	615,245	Dec. 6	21	5	85	1415
Impact-tool.....	J. B. Rhodes.....	604,480	May 24	2319	526 527	83	1118
Impact-tool.....	J. B. Rhodes.....	613,311	Nov. 1	153	35, 36	85	647
Impact-tool.....	J. B. Rhodes.....	613,312	Nov. 1	162	36	85	648
Implement. Changeable.....	S. Oldham.....	609,162	Aug. 16	1858	442	84	1044
Implement. Changeable.....	C. J. Ericson.....	602,314	Apr. 12	1261	279	83	255
Implement-handle.....	A. L. Adams.....	604,105	May 17	1616	363	83	964
Incandescent burner.....	S. Zaczek and E. O. Gottlieb.....	604,222	May 17	1828	409	83	1005
Incandescent-burner protector.....	J. W. McKnight.....	606,226	June 28	2219	510	83	1828
Incandescent-light hanger. Adjustable.....	F. C. Bell.....	601,930	Apr. 5	583	121	83	111
Incandescent-light mantles. Apparatus for forming and baking.....	W. Mahler.....	609,034	Aug. 16	1614	384	84	1000
Incandescent light. Welsbach or other.....	T. Wilson.....	615,658	Dec. 6	818	189	85	1574
Incandescent lights. Mantle or hood for Welsbach or other.....	J. Moeller.....	606,224	June 28	2217	509	83	1828
Incandescent lighting. Manufacture of fluid for impregnating fibers for.....	G. B. Puchmüller.....	609,702	Aug. 23	2862		84	1257



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Incandescent-lighting substance .....	W. Mahler .....	606,726	July 5	163	-----	84	34
Incandescent-mantle protector .....	F. A. F. Graefe .....	602,505	Apr. 19	1575	360	83	330
Incandescent-mantle support .....	L. Stiassny .....	611,527	Sept. 27	2544	587	84	1982
Incandescent mantles. Machine for cutting .....	H. E. White .....	610,213	Sept. 6	109	24	84	1461
Incandescent mantles. Means for transporting Welsbach or other .....	S. Mason .....	616,548	Dec. 27	2491	576	85	1951
Incandescent mantles. Thread foundation for .....	H. Hill .....	606,719	July 5	153	33	84	32
Incubator .....	M. E. Bukoutz .....	608,508	Aug. 2	599	134	84	774
Incubator .....	A. H. Burr .....	611,728	Oct. 4	247	60	85	50
Incubator .....	E. P. Fisher .....	612,322	Oct. 11	1297	313	85	260
Incubator .....	C. L. Hill .....	616,327	Dec. 20	2065	481 482	85	1848
Incubator .....	C. H. Johnson .....	596,597	Jan. 4	249	55	82	49
Incubator .....	R. T. Kanski and E. S. Freeman .....	602,017	Apr. 5	740	159	83	140
Incubator .....	G. Kutz .....	599,145	Feb. 15	1830	434	82	984
Incubator .....	J. L. Nix .....	597,242	Jan. 11	1357	317	82	279
Incubator .....	J. R. Roberts .....	603,859	May 10	1127	253 254	83	835
Incubator .....	C. C. and G. E. Shoemaker .....	601,173	Mar. 22	2743	630 631	82	1104
Incubator .....	C. S. Wilson .....	611,543	Sept. 27	2573	593	84	1987
Incubator and brooder. Combined .....	C. S. Newsom .....	614,493	Nov. 22	2277	521	85	1106
Index .....	J. A. Best .....	602,718	Apr. 19	1956	444	83	401
Index .....	W. E. Coons .....	603,892	May 10	1186	268	83	847
Index. Ledger .....	W. M. Daly .....	603,944	May 10	1270	289	83	863
Index-portfolio .....	H. J. Weeks .....	601,605	Mar. 29	3503	798 799	82	1969
Indexer .....	J. N. Young .....	607,781	July 19	2283	482	84	478
Indexing device for type-setting machines .....	E. F. Linke .....	614,659	Nov. 22	2564	584	85	1157
Indexing-machine .....	A. H. Alexander .....	606,853	July 5	408	87	84	81
Indexing purposes. Knife or type holding block for .....	S. N. Webb .....	612,372	Oct. 11	1380	334	85	277
Indian club .....	C. L. Randall .....	596,543	Jan. 4	144	33	82	30
Indicator:							
<i>See</i> Bicycle speed-indicator.	Jockey number-indicator.						
Boiler water-indicator.	Loom stop-indicator.						
Bottle, &c., indicator.	Medicine-bottle indicator.						
Car-indicator.	Office-indicator.						
Cash-indicator.	Pressure-indicator.						
Clock-winding indicator.	Railway time-indicator.						
Compass-indicator.	Speed-indicator.						
Course-indicator.	Speed and distance indicator.						
Current-indicator.	Station-indicator.						
Engine-indicator.	Street-indicator.						
Fire-alarm indicator.	Universal indicator.						
Firearm-indicator.	Valve-indicator.						
Heat or cold indicator.	Water-level indicator.						
Well-indicator.	Weather-signal indicator.						
Indicator .....	F. Hackmann .....	616,417	Dec. 20	2231	521	85	1880
Indicator .....	W. H. Winder. (Reissue) .....	11,670	June 21	2112	485 486	83	1789
Indicator-lock .....	W. Scharnweber .....	606,741	July 5	186	41	84	38
Indicator-signal .....	P. Rabbidge .....	613,778	Nov. 8	992	226	85	826
Induction apparatus. High-frequency .....	T. B. Kinraide .....	615,653	Dec. 6	805	187	85	1571
Induction-coil .....	A. L. Bogart .....	605,174	June 7	207	52	83	1390
Induction-motor .....	B. G. Lamme .....	610,067	Aug. 30	3492	809	84	1395
Inflatable ball .....	C. E. Longden .....	601,520	Mar. 29	3578	765	82	1944
Inflation-tube .....	J. C. MacSpadden .....	603,510	May 3	499	109	83	697
Infusions. Means for making .....	J. S. Dunlap .....	607,352	July 12	1340	286 287	84	276
Ingot-mold .....	W. Mayer .....	607,869	July 26	2496	529	84	536
Ingots. Mechanism for piercing metal .....	J. C. Sturgeon .....	601,783	Apr. 5	311	61, 62	83	59
Ingots. Pouring metal .....	L. Lévy .....	612,610	Oct. 18	1815	430 431	85	373
Ingots. Producing hollow .....	J. T. Rowley .....	603,206	Apr. 26	2789	636	83	575
Inhaler .....	B. P. Beaver .....	601,228	Mar. 29	2852	651	82	1841
Inhaler .....	J. J. Curran .....	598,286	Feb. 1	391	91	82	675
Inhaler .....	W. B. Hidden .....	604,985	May 31	3115	715	83	1288
Inhaler .....	J. H. Kellogg .....	605,436	June 7	716	161	85	1491
Inhaler .....	J. M. Munyon .....	610,717	Sept. 13	1035	239	84	1659
Inhaler .....	G. H. Tuttle .....	609,923	Aug. 30	3229	756	84	1343
Inhaler .....	M. E. Woodling .....	612,295	Oct. 11	1252	302	85	252
Inhaler-mask .....	S. P. Steves .....	596,919	Jan. 4	804	190	82	157
Inhaling apparatus .....	V. Koch .....	608,873	Aug. 9	1288	300 301	84	924
Injector .....	L. Ahrbecker .....	597,212	Jan. 11	1314	306	82	271
Injector .....	W. A. Downes .....	607,227	July 12	1120	240	84	233
Injector .....	J. W. Gamble .....	602,537	Apr. 19	1637	373	83	340
Injector .....	J. W. Gamble .....	609,801	Aug. 30	3022	707 708	84	1302
Injector .....	J. Huber .....	604,223	May 17	1841	412	83	1008
Injector .....	W. R. Park .....	606,766	July 5	254	53	84	51
Injector .....	W. R. Park and B. T. Williston .....	609,163	Aug. 16	1860	442 443 444	84	1044
Injector .....	W. R. Park and B. T. Williston .....	614,752	Nov. 22	2732	623 624	85	1190
Injector. Nasal .....	A. F. Richardson .....	600,449	Mar. 8	1503	343	82	1324
Injector. Steam .....	R. Pattison .....	599,473	Feb. 22	2456	578	82	1125
Injector. Steam .....	F. Sticker .....	600,453	Mar. 8	1507	345	82	1525
Injector. Steam .....	F. Sticker .....	600,454	Mar. 8	1510	345 346	82	1525



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Injector. Steam-	F. Sticker	600,455	Mar. 8	1513	346 347	82	1526
Injector. Steam-	F. Sticker	600,456	Mar. 8	1517	347 348	82	1527
Injector. Steam-boiler	A. S. Eberman	614,939	Nov. 29	3099	711	85	1278
Ink. Printing-	F. B. Hall	606,542	June 28	2807		83	1945
Inkstand	S. G. Baldwin	611,093	Sept. 20	1714	393 394	84	1807
Inkstand	E. Davis	605,177	June 7	213	53	83	1391
Inkstand	R. G. Dorrance	608,283	Aug. 2	197	47	84	694
Inkstand	W. F. Johnston	614,869	Nov. 29	2957	679	85	1249
Ink stand or bottle	C. M. Higgins	607,993	July 26	2712	578	84	578
Ink-well	J. T. Forrest	614,712	Nov. 22	2664	607	85	1176
Ink-well	R. M. Killion and E. M. Perdue	599,423	Feb. 22	2357	556	82	1107
Ink. Writing-	I. and A. Lichtentag	614,734	Nov. 22	2705		85	1184
Inking-pad	J. H. Melven	608,887	Aug. 9	1308	305	84	928
Inking-pad	H. H. Norrington	600,695	Mar. 15	1956	446	82	1630
Inner sole	A. E. Gooch	606,860	July 5	424	91	84	84
Inner-sole-reinforcing machine	M. L. Keith	609,103	Aug. 16	1763	420	84	1025
Inner soles. Appliance for making	A. Seaver	607,396	July 12	1419	303	84	291
Inscription-holder for umbrellas, &c	G. R. Boone	614,197	Nov. 15	1698	390	85	984
Inseam-trimming machine	E. S. Harris	598,223	Feb. 1	269	59, 60	82	654
Insect-destroyer	E. T. Priest	601,168	Mar. 22	2735	629	82	1792
Insect-destroyer	J. H. White and T. S. Barker	600,106	Mar. 1	879	202	82	1386
Insect-exterminator	P. W. Hammerle	612,085	Oct. 11	792	195	85	166
Insect-exterminator	S. E. Peebles	597,509	Jan. 18	1827	423	82	389
Insect-exterminator	E. F. Robertson	599,404	Feb. 22	2318	547	82	1099
Insect-exterminator	C. J. Stewart	597,032	Jan. 11	1002	236	82	211
Insect-trap	H. Harig	600,530	Mar. 15	1676	382	82	1578
Insect-trap	H. C. Newton	600,550	Mar. 15	1713	392	82	1585
Insect-trap and vase. Combined	G. L. Karr	598,521	Feb. 8	782	187	82	765
Insecticide	J. B. Carmichael	605,537	June 14	863		83	1539
Insecticide	V. Doane	599,056	Feb. 15	1687		82	958
Insecticide	J. A. Palethorpe	596,761	Jan. 4	547		82	105
Insecticide solutions. Apparatus for spraying	M. B. Drinkwater	615,963	Dec. 13	1353	317	85	1689
Insole-reinforcing machine	J. B. Hadaway	603,763	May 10	932	207 208 209	83	798
Insole-reinforcing machine	J. B. Hadaway	603,764	May 10	938	209 210	83	799
Insole-reinforcing machine	J. B. Hadaway	614,860	Nov. 29	2939	675 676	85	1245
Insole-reinforcing machine	G. E. Milner	609,110	Aug. 16	1776	422	84	1028
Inspirator. Thermal	C. F. Dight	603,021	Apr. 26	2477	562	83	514
Instructing device	R. Springborn	605,144	June 7	162	40	83	1381
Instrument-winding device	A. J. Oehring	598,272	Feb. 1	358	83	82	669
Instrument-winding device	A. J. Oehring	598,273	Feb. 1	360	84	82	669
Insufflator	A. Hoenig	602,010	Apr. 5	732	156	83	139
Insulated pipe-coupling	G. Peebles	602,564	Apr. 19	1675	381	83	347
Insulated rail-joint	G. A. Weber	608,088	July 26	2888	618	84	615
Insulated railway-joint	P. Clark	599,766	Mar. 1	163	40	82	1246
Insulated railway-rail joint	T. O'Brien, Jr.	599,081	Feb. 15	1720	408	82	965
Insulated supporter for electric or other wires	C. K. King and G. A. Mead	614,270	Nov. 15	1855	429	85	1013
Insulated wire. Machine for restoring	N. Wilson	601,694	Apr. 5	125	24	83	27
Insulating attachment for electrical connectors	R. P. and J. D. Osgood	598,109	Feb. 1	68	16	82	619
Insulating-blocks. Apparatus for constructing	J. Jungbluth	614,725	Nov. 22	2692	613	85	1182
Insulating-caster and electric switch combined	A. W. Slayton	608,234	Aug. 2	115	29	84	677
Insulating-connector	H. E. Pearce	600,336	Mar. 8	1315	301	82	1490
Insulating electrodes for electric gas-lighting burn- ers.	A. L. Bogart	605,661	June 14	1106	255	83	1583
Insulating handle connection	W. McAusland	605,448	June 7	735	166	83	1494
Insulating or other purposes. Composition con- taining casein for electric	P. H. Hansen	610,626	Sept. 13	889		84	1628
Insulating trolley-hanger	E. J. Cook	597,140	Jan. 11	1198	281	82	249
Insulation conduits. Method of and apparatus for making electrical	H. Gallinowsky	609,094	Aug. 16	1721	410	84	1020
Insulation of electric-conductor wires. System for	J. H. Vail	612,535	Oct. 18	1652	393	85	341
Insulation of electric wires	J. A. Poché	608,906	Aug. 9	1334	311	84	733
Insulator	F. M. Locke	605,109	June 7	70	20	83	1365
Insulator	R. D. Mershon	605,256	June 7	380	86	83	1423
Insulator	B. Willard	606,830	July 5	367	77	84	73
Insulator	C. L. Wingard	607,315	July 12	1276	272	84	263
Insulator and hanger for electric railways	W. C. Keithly	612,929	Oct. 25	2392	570	85	502
Insulator and making same. Electrical	J. W. Boch	600,475	Mar. 8	1553	357	82	1534
Insulator. Conduit-outlet	F. W. Erickson. (Reissue)	11,697	Oct. 11	1408	339	85	281
Insulator for electric conductors. Vacuum	J. A. Poché	615,896	Dec. 13	1215	285	85	1663
Insulator for incandescent electric lamps	C. W. Brown	613,647	Nov. 1	751	173	85	759
Insulator. High-potential	J. W. Boch	601,195	Mar. 22	2785	637	82	1801
Insulator-pins to cross-arms. Means for fastening	L. Mitchell	609,288	Aug. 16	2105	498	84	1094
Insulator. Strain-	H. Carmichael	600,063	Mar. 1	799	183	82	1371
Insulator. Strain-	J. Clegg	599,493	Feb. 22	2495	587	82	1133
Insulator. Strain-	L. McCarthy	605,741	June 14	1240	287	83	1609
Insulator-support for electrical conductors	F. Benedict	600,607	Mar. 15	1801	413	82	1601
Insulators, &c. Bracket	J. R. Fletcher	602,576	Apr. 19	1696	386	83	350
Insulators. Press for making	H. M. Brookfield	596,651	Jan. 4	339	74, 75	82	67
Insulators. Press for making	H. M. Brookfield and S. Kribs	596,652	Jan. 4	343	75, 76	82	68
Insulators. Press for making	S. Kribs	596,682	Jan. 4	396	89, 90	82	79
Internal-combustion engine	R. Diesel	608,845	Aug. 9	1247	291	84	916
Internal-combustion engine	F. L. Merritt	605,583	June 14	954	221 222	83	1556
Internal-combustion engine	M. H. Rumpf	615,049	Nov. 29	3312	761	85	1318
Internal-combustion engine	G. L. Woodworth	607,317	July 12	1278	272	84	264
Internal-combustion motor	J. Fielding	615,978	Dec. 13	1375	322	85	1694
Internal-combustion or detonating engine	P. E. Singer	600,971	Mar. 22	2405	549	82	1729
Internal separator	J. McIntyre	615,093	Nov. 29	3395	777 778	85	1333



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Interrupter. Automatic vibratory.....	D. M. Moore.....	604,684	May 24	2673	612	83	1185
Intubator.....	A. Frank and L. R. Kratzmueller.....	614,854	Nov. 29	2932	673	85	1244
Invalid-chair. Convertible.....	J. A. Crandall.....	597,878	Jan. 25	2451	572	82	526
Invalid-elevator.....	W. A. Allen.....	616,282	Dec. 20	1985	462	85	1832
Invalid-rest.....	J. Drawe.....	603,756	May 10	920	204	83	796
Invalid-rest.....	E. E. Safford.....	614,766	Nov. 22	2755	629	85	1195
Invalid-table.....	J. H. Chandler.....	601,945	Apr. 5	639	133	83	120
Invalid's chair.....	J. G. Yznaga.....	597,598	Jan. 18	1969	458	82	418
Iodin derivative of ichthyol and thiol.....	L. O. Helmers.....	602,942	Apr. 26	2354	.....	83	493
Ionone derivative.....	E. de Laire.....	600,429	Mar. 8	1462	.....	82	1518
Iron:							
<i>See</i> Sad-iron.                      Soldering-iron.							
Smoothing-iron.							
Smoothing and pressing iron.							
Iron and steel plates. Finishing sheet.....	W. M. Theobald.....	608,432	Aug. 2	477	.....	84	750
Iron and tin-plate. Apparatus for treating sheet.....	W. E. Harris.....	608,119	July 26	2933	628 629	84	624
Iron cooling-bed. Band.....	V. E. Edwards.....	614,202	Nov. 15	1706	392	85	986
Iron-cutting device.....	H. J. Shaffer.....	604,270	May 17	1915	428	83	1022
Iron. Dephosphorizing.....	S. P. Etter.....	614,852	Nov. 29	2928	.....	85	1243
Iron into steel or malleable iron. Converting cast-iron. Making planished sheet.....	J. A. Hunter.....	600,948	Mar. 22	2373	.....	82	1723
	J. Stephens.....	606,595	June 28	2898	.....	83	1963
Iron oxid. Method of and apparatus for reducing.....	A. Karyscheff.....	608,779	Aug. 9	1082	249 250	84	887
Iron, pipe, &c. Rolls for bending structural.....	C. Weber.....	616,217	Dec. 20	1855	429	85	1805
Iron. Producing magnetic oxid of.....	R. H. Peak.....	607,875	July 26	2509	.....	84	539
Iron. Producing silicids of.....	G. de Chalmot.....	602,976	Apr. 26	2407	.....	83	502
Iron. Silicid of.....	G. de Chalmot.....	602,975	Apr. 26	2406	.....	83	502
Ironer. Laundry.....	A. B. Smith and J. G. Rapp.....	602,607	Apr. 19	1752	400	83	361
Ironing-board.....	T. H. Babcock, Jr.....	613,437	Nov. 1	414	94	85	695
Ironing-board.....	N. L. Beckett.....	598,761	Feb. 8	1185	285	82	844
Ironing-board.....	E. A. Hampshire.....	599,962	Mar. 1	532	121	82	1313
Ironing-board.....	T. H. Kinsman.....	606,788	July 5	294	61	84	59
Ironing-board.....	D. McDonough.....	602,563	Apr. 19	1674	381	83	347
Ironing-board.....	A. A. Pool.....	603,831	May 10	1076	240	83	825
Ironing-board.....	E. A. Prescottt.....	602,267	Apr. 12	1177	258	83	237
Ironing-board.....	G. Ritter.....	614,893	Nov. 29	2998	687	85	1257
Ironing-board.....	L. R. Vidler.....	614,188	Nov. 15	1686	387	85	982
Ironing-board and clothes-rack. Combination.....	C. E. Briggs.....	598,901	Feb. 15	1409	339	82	904
Ironing-board. Folding.....	B. M. Wright.....	612,083	Oct. 11	876	212	85	182
Ironing-board support.....	C. M. Shaw.....	615,504	Dec. 6	547	125	85	1518
Ironing collar points. Machine for.....	A. E. Grant.....	614,224	Nov. 15	1754	403	85	995
Ironing-machine.....	A. T. Hagen and D. M. Cooper.....	612,099	Oct. 11	906	219 220 221	85	188
Ironing-machine.....	I. Harris.....	597,410	Jan. 18	1645	382 383	82	353
Ironing-machine.....	J. W. Johnson.....	615,854	Dec. 13	1149	268	85	1650
Ironing-machine.....	K. E. Landau.....	610,942	Sept. 20	1430	328	84	1753
Ironing-machine.....	W. P. Lynch.....	597,322	Jan. 11	1486	347 348	82	306
Ironing-machine.....	A. R. Selden.....	598,233	Feb. 1	285	64, 65	82	656
Ironing-machine.....	A. L. Wing and A. Norton.....	612,762	Oct. 18	2079	492 493	85	422
Ironing-machine for smoothing cuff and collar edges.....	F. E. Fay. (Reissue).....	11,664	May 17	2086	468	83	1055
Ironing-table.....	S. J. Coggins.....	602,428	Apr. 19	1450	328 329	83	306
Ironing-table.....	W. E. Harriman.....	606,210	June 28	2178	500 501	83	1820
Ironing-table.....	A. Josephs.....	612,905	Oct. 25	2356	561	85	494
Ironing-table.....	S. C. Martin.....	609,688	Aug. 23	2843	665	84	1254
Ironing-table.....	R. L. Ritchie.....	611,223	Sept. 20	1960	452	84	1852
Ironing-table.....	C. R. Sarvis.....	597,528	Jan. 18	1852	429	82	394
Ironing-table.....	J. G. Sebold.....	603,474	May 3	417	92	83	680
Ironing-table.....	F. D. Smith.....	612,935	Oct. 25	2401	572	85	504
Ironing-table.....	J. R. Winter.....	612,082	Oct. 11	875	212	85	182
Irrigating-machine.....	G. Peterson.....	611,505	Sept. 27	2507	578 579	84	1975
Irrigating or other flumes. Machine for constructing.....	J. H. Martin and D. Ormand.....	615,085	Nov. 29	3379	774	85	1330
Irrigation system.....	C. W. Skinner.....	614,507	Nov. 22	2296	526	85	1109
Jack:							
<i>See</i> Bootjack.                      Pumping-jack.							
Ditching-jack.                      Screw-jack.							
Double-action jack.                      Vehicle-jack.							
Flooring-jack.                      Wagon-jack.							
Hydraulic jack.                      Window-jack.							
Lifting-jack.                      Wrench-jack.							
Nailing-jack.							
Jack.....	G. A. and T. F. Penrose.....	615,102	Nov. 29	3411	782	85	1336
Jack.....	J. S. Schlosser.....	610,246	Sept. 6	190	43	84	1479
Jacketed can.....	J. B. Long.....	613,771	Nov. 8	982	224	85	824
Jail.....	R. C., Jr., and W. A. Stewart.....	601,005	Mar. 22	2473	563	82	1741
Jail. Portable.....	W. S. King.....	614,008	Nov. 8	1374	314 315	85	900
Jar:							
<i>See</i> Flower-jar.                      Preserve-jar.							
Fruit-jar.                      Self-sealing jar.							
Fruit or other jar.                      Stoppered jar.							
Jar.....	A. J. Hartman.....	616,839	Dec. 27	3011	701	85	2053
Jar.....	S. Hipkins, Jr.....	615,453	Dec. 6	444	104	85	1498
Jar.....	J. P. Lyon.....	603,911	May 10	1217	276	83	853
Jar.....	C. A. Tatum.....	615,222	Dec. 6	171	44	85	1446
Jar and can opener. Fruit.....	J. J. Schairer.....	606,587	June 28	2886	668	83	1961
Jar and closure.....	D. L. Newcomb.....	616,553	Dec. 27	2502	578	85	1953
Jar and cover therefor.....	W. Daniel.....	612,312	Oct. 11	1278	308	85	256



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Jar and fastener therefor	M. Cavanaugh and C. H. Hess	613,493	Nov. 1	511	116	85	713
Jar and temporary closure therefor	J. P. Lyon	603,910	May 10	1215	275	83	852
Jar-closure	J. P. Lyon	615,084	Nov. 29	3378	774	85	1330
Jar-closure	W. B. McCrosky	597,687	Jan. 18	2117	495	82	445
Jar-closure	F. P. McElfresh	608,475	Aug. 2	548	122	84	764
Jar-closure	J. Schies	597,299	Jan. 11	1441	338	82	296
Jar-closure	J. Schies	612,678	Oct. 18	1929	456	85	393
Jar, &c., closure	J. M. Stadel	599,269	Feb. 15	2029	481	82	1021
Jar cover-fastening. Fruit-	O. Selg	599,458	Feb. 22	2425	570	82	1120
Jar-handle	C. E. Pierce	611,708	Oct. 4	204	48	85	42
Jar or bottle fastener	J. L. and E. A. De Steiger	611,958	Oct. 4	628	153	85	123
Jar or other receptacle for preserves, &c	L. Wurzburg	602,791	Apr. 19	2069	470	83	422
Jar, top, and wrench for preserving fruits, &c.	S. P. Jaggard	605,482	June 14	781	179	83	1523
Jars. Device for facilitating opening of preserve-	A. Schiller	614,579	Nov. 22	2413	551	85	1131
Jardinière	H. Waterer	603,492	May 3	464	103	83	690
Jaw wrench. Sliding-	A. Enos	601,954	Apr. 5	651	136	83	122
Jelly-bags, &c. Support and compressor for	L. M. Kellogg	600,203	Mar. 8	1096	249	82	1449
Jetty for deepening tidal ways. Automatic	J. A. L. Waddell	604,810	May 31	2900	663	83	1247
Jewel-receiving pins. Die for producing	F. C. Blenkner	607,597	July 19	1972	409	84	419
Jewels. Crown-setting for	N. L. Ripley	611,279	Sept. 27	2079	479	84	1896
Jeweler's clamp	F. J. Thomas	598,825	Feb. 8	1279	309	82	862
Jeweler's stone-setting instrument	J. A. Owens	603,201	Apr. 26	2783	634	83	573
Jewelry. Article of	F. X. Zirnklilton	606,617	June 28	2933	680	83	1969
Jewelry-pin	W. H. and G. A. Skinner	600,180	Mar. 8	1060	239	82	1441
Jig for securing cycle parts, &c., while being bored or machined.	F. J. T. Haskew	603,379	May 3	229	51	83	644
Jockey number-indicator	J. F. Harding	600,074	Mar. 1	815	187	82	1374
Joint:							
See Ankle-joint.      Metallic-frame joint.							
Ball-joint.      Pipe-joint.							
Bicycle tubular joint.      Rail-joint.							
Carriage-top-prop joint.      Railway-rail joint.							
Door-hanger-rail joint.      Socket-joint.							
Electric-conductor joint.      Steam-joint.							
Flush joint.      Stovepipe-joint.							
Furniture-joint.      Sucker-rod joint.							
Insulated railway-joint.      Tube-joint.							
Universal joint.							
Universal or ball joint.							
Welded joint.							
Wheel-rim joint.							
Joint for parts of machinery	G. S. Webb	611,159	Sept. 20	1835	423	84	1830
Joint. Key	W. E. Plested	611,439	Sept. 27	2393	548	84	1951
Joint-making tool	J. Birtwisle	605,195	June 7	248	58	83	1397
Joint-ring in combination with iron or steel. Bronze or copper	C. J. Gustafson	614,464	Nov. 22	2215	509	85	1094
Joints. Composition for making tight	H. Redhead and G. W. Emmerson	616,560	Dec. 27	2511	-----	85	1955
Joists, girders, and the like. Construction of	F. Hennebique	611,907	Oct. 4	545	132	85	108
Journal and bearing	J. R. Carter	605,996	June 21	1770	406	83	1725
Journal-bearing	J. Oldendorph	597,429	Jan. 18	1680	390	82	359
Journal-bearing	C. R. Smith	613,083	Oct. 25	2643	624	85	552
Journal-bearing	J. Swan	607,576	July 19	1931	401	84	412
Journal-bearing	C. F. Uebelacker	600,938	Mar. 22	2359	535	82	1721
Journal-bearing. Self-adjusting	E. Huber	604,936	May 31	3115	716	83	1288
Journal-bearings. Guide-frame for loose rolls in	T. J. Tellefsen	604,572	May 24	2491	567	83	1149
Journal-box	J. J. Burke	597,797	Jan. 25	2323	542	82	501
Journal-box	N. M. Farmer	610,130	Aug. 30	3592	833	84	1416
Journal-box	T. W. Green	602,287	Apr. 12	1217	268	83	245
Journal-box	C. B. Moulton	611,642	Oct. 4	89	22	85	20
Journal-box	L. H. Nash	597,616	Jan. 18	1996	465	82	424
Journal-box	W. W. Smith	605,757	June 14	1265	292	83	1614
Journal-box	V. Wigelius	610,571	Sept. 13	798	182	84	1608
Journal-box. Car-axle	G. W. Lewis and L. C. Godwin	615,724	Dec. 13	928	216	85	1607
Journal-box. Lubricating	J. Rogers	602,959	Apr. 26	2381	543	83	498
Journal-box. Lubricating	J. W. Skilton	598,961	Feb. 15	1525	363	82	926
Journal-box lubricator	B. M. Steele	616,812	Dec. 27	2971	693	85	2045
Journal-box. Self-oiling	C. A. Westervelt and J. P. Walters	596,671	Jan. 4	377	84	82	75
Journal-cooler	R. C. Morris	614,486	Nov. 22	2267	519	85	1104
Journal-hanger	A. Fredrickson	610,440	Sept. 6	560	123	84	1545
Jug-lid	L. F. East	607,354	July 12	1343	287	84	277
Jug or vessel for containing liquids	W. A. S. Benson	605,071	June 7	9	3	83	1354
Jug-stopper	H. G. Boynton and C. H. Fravel	602,822	Apr. 26	2148	487	83	452
Juice-extractor	G. Price	609,165	Aug. 16	1865	444	84	1045
Junction-box	T. J. Murphy	614,882	Nov. 29	2976	682	85	1253
Justifying mechanism	B. F. Bellows	598,622	Feb. 8	948	227 228 229 230 231	82	800
Keel. Sail-controlled	F. Doucet	604,930	May 31	3105	714	83	1286
Keg or barrel	J. C. Roth	611,003	Sept. 20	1547	356	84	1774
Kegs or barrels. Machine for working off	A. J. Schindler	611,336	Sept. 27	2180	504 505	84	1914
Keir. Circulating-	J. F. Monaghan	612,210	Oct. 11	1088	261 262	85	222
Keir. Vomiting-	C. S. Shepard and E. D. Jefferson	612,874	Oct. 25	2308	550	85	485
Kettle. Candy-	J. Cleave	601,747	Apr. 5	245	48	83	47
Kettle-rack	W. C. Donica	598,862	Feb. 8	1342	325	82	874
Kettles boiling dry. Apparatus for preventing	F. G. Yetter	603,461	May 3	394	88	83	677
Kettles, &c. Instrument for preventing deposit in interiors of	W. L. Dash	602,832	Apr. 26	2162	490	83	455
Key:							
See Door-key.      Telegraph-key.							
Joint-key.							
Key	H. S. Lockwood	600,618	Mar. 15	1817	417	82	1604
Key	B. J. Loomis	602,561	Apr. 19	1673	380	83	347



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Key-actuated equalizing-bar	C. Sears	606,814	July 5	336	71	84	67
Keyboard. Separable object-lesson	E. A. Fletcher	603,629	May 10	714	159	83	755
Key-fastener	A. E. Brockett	615,380	Dec. 6	305	72	85	1472
Key-fastener	T. J. Dickinson	615,820	Dec. 13	1097	257	85	1610
Key-fastener	J. D. King and M. A. Burns	607,381	July 12	1401	299	84	287
Key-fastener	M. L. Lorentz	614,115	Nov. 15	1565	357	85	959
Key-fastener	L. C. Norris	598,229	Feb. 1	280	63	82	655
Key-fastener	J. R. Parker	611,646	Oct. 4	97	23	85	22
Key-fastener	L. H. Redfield	597,547	Jan. 18	1883	436	82	401
Key-fastener	W. W. St. John	607,807	July 19	2355	497	84	492
Key-fastener	J. M. Suffrins	599,876	Mar. 1	384	86	82	1285
Key-guard	J. E. Myers	609,898	Aug. 30	3191	748	84	1335
Key-holder	F. W. Becker	603,247	May 3	8	2	83	602
Key-holder	A. Fair	613,029	Oct. 25	2543	605	85	533
Key-holder	C. M. Muffy	605,584	June 14	958	222	83	1557
Keyhole-guard	H. Christenson	597,634	Jan. 18	2025	473	82	429
Keyhole-guard	E. H. Cobb	600,304	Mar. 8	1263	288	82	1480
Keyhole-guard	F. E. Olmstead	606,734	July 5	174	39	84	36
Keyhole-guide	J. Uster	598,297	Feb. 1	407	96	82	679
Keyless lock	T. G. A. Alexander	611,547	Sept. 27	2583	595	84	1989
Keyless lock	W. B. Holton	597,080	Jan. 11	1099	260	82	231
Keyless lock	W. B. Holton. (Reissue)	11,679	July 19	2369	502	84	495
Key-opening can	E. Barrath	605,456	June 7	747	170	83	1496
Key-opening can	E. Barrath	605,457	June 7	748	170	83	1496
Kiln:							
See Bone-black kiln.	Dry-kiln.						
Brick-kiln.	Drying-kiln.						
Cement-kiln.	Limekiln.						
Charcoal-kiln.	Malt-kiln.						
Kiln for burning lime, cement, &c	A. Bauchère	598,893	Feb. 15	1396	336	82	901
Kiln or oven	C. Malpas	612,779	Oct. 18	2112	502	85	428
Kinetoscope. Projecting	J. N. Maskelyne, Jr	603,771	May 10	954	213	83	802
Kitchen-rack	M. Kaiser	601,753	Apr. 5	253	50	83	48
Kitchen-table and ironing-board. Combination	C. Lamb	606,928	July 5	517	113	84	103
Kitchen-tool. Combination	A. Lehmann	598,792	Feb. 8	1231	298	82	853
Kitchen utensil	H. L. Bedford	601,070	Mar. 22	2577	588	82	1762
Kitchen utensil	M. W. Smith	604,092	May 17	1591	357	83	959
Kitchen utensil. Combination	D. L. Falardeau	607,409	July 12	1450	307	84	296
Kite	W. S. Baker	608,823	Aug. 9	1203	281	84	907
Kite	H. H. Clayton	605,596	June 14	975	225	83	1560
Kite	J. F. Cooley	606,622	June 28	2946	683	83	1972
Kite	J. Doyle	606,960	July 5	558	123	84	111
Kite	C. J. Greiner	598,777	Feb. 8	1209	293	82	849
Kite	S. A. Potter	607,129	July 12	929	201	84	198
Kite	C. S. Wardwell	598,038	Jan. 25	2722	636	82	578
Kneader	R. B. Griffin	602,398	Apr. 12	1403	316	83	283
Kneader. Dough-	S. H. Loring	613,287	Nov. 1	117	27	85	639
Knife:							
See Bread-cutting knife.	Linotype-machine knife.						
Budding-knife.	Miner's knife.						
Corn-knife.	Paper-cutting knife.						
Fish-knife.	Pocket-knife.						
Fruit-knife.	Shredding-knife.						
Gage-knife.	Thimble thread-knife.						
Knife	V. M. Fowler	601,509	Mar. 29	3358	761	82	1940
Knife	N. Hockerson, Jr	612,945	Oct. 25	2415	576	85	507
Knife	A. Wright	604,850	May 31	2966	680	83	1259
Knife	A. Wright	605,944	June 21	1670	382	83	1707
Knife and scale. Combined	L. Herrin	598,225	Feb. 1	274	61	82	654
Knife and scoop. Combined	J. A. Sweeting	605,209	June 7	282	65	83	1403
Knife for cutting oil-cloth	J. C. Creveling	601,315	Mar. 29	3037	684	82	1877
Knife gage. Cutter	S. J. Shimer	602,778	Apr. 19	2048	463	83	419
Knife-scourer	B. M. Pearne	613,300	Nov. 1	137	32	85	643
Knife-washing device	F. Hayes	597,411	Jan. 18	1646	383	82	353
Knives. Manufacture of table-	D. Johnston	611,324	Sept. 27	2163	500	84	1911
Knit fabric for underwear, &c	A. F. Halsted	602,702	Apr. 19	1933	439	83	396
Knit fabrics. Machine for uniting	J. H. Secor	608,626	Aug. 9	818	190	84	835
Knit garment. Combination	S. Condé	614,290	Nov. 15	1883	435	85	1018
Knit mitten	I. W. Lamb	601,894	Apr. 5	525	108	83	99
Knit pile fabric. Ribbed-	T. S. Baron and W. A. Ingalls	603,164	Apr. 26	2723	619	83	563
Knitted fabric.	W. M. Bell	599,438	Feb. 22	2392	562	82	1114
Knitted fabric.	R. W. Scott	614,349	Nov. 15	2004	463	85	1042
Knitted fabric. Striped	R. W. Scott	609,707	Aug. 23	2872	671	84	1259
Knitted-garment blank	D. McGenniss	609,694	Aug. 23	2851	667	84	1255
Knitting-machine	J. Bradley	601,548	Mar. 29	3420	776	82	1954
Knitting-machine	W. W. Burson	616,600	Dec. 27	2568	595	85	1964
Knitting-machine	W. W. Burson	616,601	Dec. 27	2574	597	85	1965
Knitting-machine	G. E. Frink	615,384	Dec. 6	314	74	85	1474
Knitting-machine	A. V. Groupe	608,040	July 26	2816	599	84	600
Knitting-machine	I. W. Lamb	611,130	Sept. 20	1781	408	84	1820
Knitting-machine	I. W. Lamb	611,862	Oct. 4	469	113	85	94
Knitting-machine	J. H. Rice	604,638	May 24	2596	592	83	1169



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Knitting-machine	J. E. Rowe	604,420	May 24	2196	492 493	83	1096
Knitting-machine	J. E. Rowe	604,570	May 24	2487	566 567	83	1148
Knitting-machine	R. W. Scott	607,002	July 5	653	142 143 264	84	130
Knitting-machine	G. F. Sturgess	597,092	Jan. 11	1122	265 266	82	235
Knitting-machine	D. F. Sullivan	613,808	Nov. 8	1050	239	85	837
Knitting-machine	C. Terrot	605,065	May 31	3323	763 764	83	1328
Knitting-machine	E. Walton	601,067	Mar. 22	2571	586 587	82	1761
Knitting-machine	F. B. Wildman	604,100	May 17	1608	361	83	962
Knitting-machine	F. B. Wildman	613,346	Nov. 1	222	51, 52	85	659
Knitting-machine attachment	J. Palmer	611,643	Oct. 4	93	23	85	21
Knitting-machine attachment	F. W. Sumner	615,585	Dec. 6	682	157	85	1546
Knitting-machine attachment	J. Taylor and J. F. Flad	611,951	Oct. 4	618	151	85	121
Knitting-machine bur-holder attachment	H. V. H. Smith	609,594	Aug. 23	2652	620	84	1216
Knitting-machine cam	W. T. Barratt	601,408	Mar. 29	3186	719	82	1905
Knitting-machine. Circular	L. Gearhart	611,751	Oct. 4	278	66	85	57
Knitting machine. Circular	T. J. Holton	607,853	July 26	2461	522 523	84	530
Knitting machine. Circular	D. Hurley	607,798	July 19	2326	493 494	84	485
Knitting machine. Circular	W. A. Ingalls and T. S. Baron	597,288	Jan. 11	1424	334	82	292
Knitting machine. Circular	D. McGenniss	616,344	Dec. 20	2095	488 489	85	1853
Knitting machine. Circular	C. T. Stetson	610,461	Sept. 6	600	134 135	84	1553
Knitting machine. Circular	L. N. D. Williams and H. Swinglehurst, Jr.	604,646	May 24	2609	597	83	1172
Knitting machine. Circular-warp	A. E. Lindner	606,351	June 28	2453	568 569 570	83	1876
Knitting machine. Circular-warp	A. E. Lindner	606,352	June 28	2461	571 572	83	1877
Knitting machine. Circular-warp	A. E. Lindner	606,353	June 28	2465	572 573	83	1878
Knitting-machine cylinder	E. Vermilyea	604,440	May 24	2238	502	83	1104
Knitting-machine feeding mechanism	F. Wilcomb	597,794	Jan. 25	2316	540 541	82	500
Knitting-machine loop-cutting attachment	S. T. Harshaw	605,873	June 21	1527	352	83	1680
Knitting-machine narrowing and widening mechanism. Circular	J. A. Burleigh	596,933	Jan. 4	826	196 197	82	161
Knitting-machine needle	H. W. Huke and F. P. Weston	600,692	Mar. 15	1953	445	82	1630
Knitting-machine needle	R. L. Lyons	607,253	July 12	1167	249	84	241
Knitting-machine needle	W. T. Rowlett	597,488	Jan. 18	1795	416	82	383
Knitting-machine needle	L. E. Salisbury	601,281	Mar. 29	2971	671	82	1865
Knitting-machine needle	S. Woodward	609,566	Aug. 23	2599	608	84	1206
Knitting-machine sinker-top. Hosiery	H. H. Skevington and W. L. Whitehead	606,094	June 21	1960	451	83	1760
Knitting-machine stop-motion. Circular	A. White and D. F. Sullivan	604,344	May 17	2064	462 559	83	1050
Knitting machine. Straight	C. H. Aldridge	614,599	Nov. 22	2453	560 561	85	1137
Knitting machine. Straight	L. E. Salisbury	601,307	Mar. 29	3025	681	82	1875
Knitting-machine. Straight-bar	J. A. A. Barfoot and J. Johnson	599,435	Feb. 22	2387	561	82	1113
Knitting-machine take-up	F. B. Wildman	600,568	Mar. 15	1741	397	82	1590
Knitting-machine thread-changer	J. E. Rowe	606,029	June 21	1836	423	83	1736
Knitting-machine thread-feeding mechanism	W. R. Johns	600,788	Mar. 15	2103	481	82	1659
Knitting-machines. Tension-take-up device for	F. B. Wildman	601,297	Mar. 29	2999	678	82	1871
Knitting-machines. Thickening-thread and take-up mechanism for	A. N. Ames	600,761	Mar. 15	2064	473	82	1652
Knitting machines. Yarn-changing device for rib-	R. W. Scott	604,640	May 24	2600	594	83	1170
Knob and indicator. Combined door	C. M. Brown	612,541	Oct. 18	1662	395	85	343
Knob attachment	G. C. Hughes	612,730	Oct. 18	2020	479	85	411
Knob attachment	F. Jones and J. S. Brownson	600,368	Mar. 8	1366	312	82	1499
Knob attachment	H. W. Libbey	598,426	Feb. 1	623	153	82	721
Knob attachment	J. H. Shaw	599,363	Feb. 22	2233	531	82	1082
Knob attachment	J. H. Shaw	606,590	June 28	2890	669	83	1961
Knob attachment	H. J. P. Whipple	601,724	Apr. 5	197	38	83	39
Knob attachment and lock. Door	J. W. T. Morris	613,169	Oct. 25	2767	652	85	577
Knob. Door	C. M. Brown	600,849	Mar. 15	2206	504	82	1679
Knob fastening. Door	G. R. Moore	610,631	Sept. 13	897	206	84	1630
Knockdown house	P. A. Tofft	604,277	May 17	1927	431	83	1024
Kumiss and making same	H. P. Connell	607,634	July 19	2040		84	433
Kumiss compound	J. Carnrick	611,234	Sept. 27	1988		84	1878
Label-affixer	F. W. Woerner	602,812	Apr. 19	2119	478	83	431
Label-affixing machine	A. B. Cowles and F. S. Reynolds	604,855	May 31	2976	682 683	83	1260
Label. Druggist's and medicine	A. Harris and C. Stahl	606,457	June 28	2653	610	83	1915
Label-holder	H. A. Ames	610,338	Sept. 6	381	81	84	1513
Label-holder	J. H. Downing	610,346	Sept. 6	395	84	84	1516
Label-holder	J. R. Grinsfelder	616,312	Dec. 20	2036	474	85	1843
Label-holder	J. R. Weller	605,213	June 7	287	66	83	1405
Label or stamp affixing machine	J. J. Karges	597,720	Jan. 25	2175	509	82	473
Labeling composition	A. C. Eschenbach and L. Sielke	615,613	Dec. 6	731		85	1556
Labeling-machine	C. A. Burt	613,239	Nov. 1	28	6, 7	85	622
Labeling-machine	T. A. Weber	604,182	May 17	1759	396	83	992
Labeling-machine	D. D. Weisell	597,570	Jan. 18	1920	447 448	82	408
Labeling machine. Bottle	V. Beauregard and C. S. Gooding	614,689	Nov. 22	2623	596 597	85	1168
Labeling machine. Bottle	F. H. Knapp and C. W. Blackstone	613,686	Nov. 8	808	186 187	85	791



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Labeling machine. Bottle-	W. E. Pettee	597,858	Jan. 25	242C	565	82	520
Labeling machine. Bottle-	A. Siegel	614,772	Nov. 22	2762	631	85	1197
Labeling machine. Bottle-	F. C. H. Strasburger	606,745	July 5	202	43, 44	84	41
Labeling machine. Can-	J. L. Barkey	604,691	May 24	2695	616 617	83	1188
Labeling machine. Can-	W. J. Corkran	606,049	June 21	1871	431 432	83	1742
Labeling machine. Can-	E. W. Cornell	612,825	Oct. 25	2206	523 524	85	467
Labeling machine. Can-	W. S. Craig	605,858	June 21	1504	345	83	1676
Labeling machine. Can-	T. C. Northcott, J. N. Lake, and J. Clark	606,227	June 28	2221	510 511	83	1829
Labeling machine. Can-	W. G. Trethewey	598,277	Feb. 1	367	85, 86	82	671
Labeling-machine. Pneumatic	C. F. Tebbetts	603,669	May 10	782	172 173	83	768
Lace clasp. Shoe-	M. E. Hendrick	616,325	Dec. 20	2063	480	85	1848
Lace fastener. Shoe-	M. L. Byers	610,225	Sept. 6	158	35	84	1473
Lace fastener. Shoe-	F. E. H. Goodenow	598,704	Feb. 8	1099	264	82	828
Lace fastener. Shoe-	W. E. Heath	613,416	Nov. 1	373	86	85	686
Lace fastener. Shoe-	J. E. Kennedy	602,905	Apr. 26	2281	520	83	477
Lace fastener. Shoe-	L. C. Moore	609,112	Aug. 16	1780	423	84	1029
Lace fastener. Shoe-	F. P. Schultz	604,126	May 17	1650	370	83	970
Lace-holder	H. O. Whyman	607,813	July 19	2367	502	84	495
Lace, ribbon, or belt reel	J. A. Dowdy	596,988	Jan. 11	932	220	82	198
Lacer.	W. H. Hall	611,119	Sept. 20	1764	404	84	1816
Lacing-eye	J. L. Glenn, Jr	596,584	Jan. 4	218	48	82	43
Lacing-guide	E. Kempshall	599,906	Mar. 1	441	98	82	1297
Lacing-hook for shoes	L. F. Earl	602,841	Apr. 26	2174	493	83	457
Lacing-hook for shoes, gloves, &c.	L. F. Earl	602,842	Apr. 26	2177	493	83	458
Lacing-hook-setting machine	S. N. Smith	602,881	Apr. 26	2231	505	83	469
Lacing-hooks. Mold for making	E. Kempshall	599,905	Mar. 1	440	97	82	1297
Lacing-strip	M. K. and M. H. Bortree	603,313	May 3	116	27	83	624
Lacing-stud	C. H. Pratt	600,553	Mar. 15	1717	393	82	1586
Lacing-studs, &c. Apparatus for delivering	E. Kempshall	599,904	Mar. 1	438	97	82	1296
Lacings. Device for forming belt-	L. Vyne	612,070	Oct. 11	855	208	85	177
Lacings. Machine for securing metal points to	L. P. Bosworth	599,548	Feb. 22	2589	607	82	1151
Lacquer and lacquering	D. Marcus	603,913	May 10	1220		83	853
Ladder	H. W. Kryder	611,204	Sept. 20	1911	441	84	1843
Ladder	R. Ronson	596,545	Jan. 4	148	33	82	31
Ladder	L. C. Tiefel	607,808	July 19	2356	498	84	492
Ladder	J. A. Weston	615,512	Dec. 6	558	128	85	1520
Ladder and ironing-board. Combination step-	A. Samuelson	603,820	May 10	1046	233	83	821
Ladder and scaffold. Combined	I. R. Bell	616,762	Dec. 27	2886	669	85	2028
Ladder. Combined extension and step	L. C. Tiefel	608,929	Aug. 9	1403	331	84	945
Ladder. Combined step and extension	E. Cardarelli	605,995	June 21	1768	405	83	1724
Ladder. Cornice-	J. W. Anderson	607,323	July 12	1289	275	84	266
Ladder. Extensible	W. O. Duryea	600,196	Mar. 8	1087	245	82	1446
Ladder. Extension-	P. Bourne	605,469	June 14	762	175	83	1520
Ladder. Extension-	F. Heine	606,458	June 28	2654	611	83	1915
Ladder. Extension-	F. S. Miley	598,615	Feb. 8	931	224	82	798
Ladder. Extension-	C. Napier	611,643	Oct. 4	90	22	85	20
Ladder. Extension-	L. A. Weatherston and J. E. Rankin	596,766	Jan. 4	554	127	82	106
Ladder. Extension step-	P. Herder	603,848	May 10	1101	247	83	830
Ladder. Folding step-	C. Garland	600,281	Mar. 8	1232	280	82	1474
Ladder-hook. Folding	J. D. Hatch	599,963	Mar. 1	533	122	82	1314
Ladder, ironing-board, and bench. Combined step-	D. G. Snyder	612,878	Oct. 25	2316	551	85	486
Ladder. Orchard-	H. Bowman	610,890	Sept. 20	1348	308	84	1736
Ladder. Portable adjustable	G. Huber	604,531	May 24	2411	548 549	83	1133
Ladder. Step-	G. W. Hoover	610,487	Sept. 6	645	144	84	1562
Ladder. Step-	T. M. Jones	596,779	Jan. 4	574	139	82	111
Ladder. Step-	C. E. Lincoln	600,730	Mar. 15	2016	459	82	1642
Ladder. Step-	A. A. Margeson and J. B. Schmitt	598,677	Feb. 8	1047	252	82	818
Ladder. Step-	T. F. McBride	598,430	Feb. 1	628	154 155	82	722
Ladder. Step-	W. Nehring	606,071	June 21	1915	440	83	1751
Ladder. Step-	O. Richardson	603,579	May 3	607	135	83	719
Ladder. Step-	H. Schubert	610,284	Sept. 6	276	59, 60	84	1495
Ladder. Step-	W. O. Seaman	604,482	May 24	2327	528	83	1119
Ladder. Step and extension	C. Napier	601,714	Apr. 5	179	35	83	35
Ladder. Store-service	W. E. Heffner	610,234	Sept. 6	176	39	84	1476
Ladder. Trussed	F. S. Seagrave	607,665	July 19	2099	437	84	442
Ladders. Automatic coupling or lock for extension-	F. S. Seagrave	607,664	July 19	2097	437	84	442
Ladders. Combined locking and hoisting apparatus for extension-	F. S. Seagrave	613,848	Nov. 8	1112	253	85	848
Lamp	M. C. Arnot	597,933	Jan. 25	2537	592	82	541
Lamp	C. Bergener	609,193	Aug. 16	1910	455	84	1053
Lamp	F. Billingham	611,806	Oct. 4	368	88	85	74
Lamp	H. A. Brognard	615,244	Dec. 6	21	5	85	1415
Lamp	L. W. Carroll and F. B. Wentworth	615,138	Nov. 29	3465	795	85	1347
Lamp	R. D. Cody	606,445	June 28	2634	606	83	1911
Lamp	F. A. Cortis	613,648	Nov. 1	752	173	85	759
Lamp	W. P. Crary	607,162	July 12	989	214	84	208
Lamp	R. M. Dixon	598,912	Feb. 15	1434	344	82	908
Lamp	R. M. Dixon	606,002	June 21	1781	408	83	1727
Lamp	J. G. A. Kitchen	598,490	Feb. 1	716	173	82	738
Lamp	T. Langston	615,666	Dec. 6	830	192	85	1576
Lamp	C. M. Lungren	599,528	Feb. 22	2551	599	82	1144
Lamp	J. C. Mackey	596,522	Jan. 4	109	25	82	23
Lamp	J. J. Masson	609,689	Aug. 23	2843	665	84	1254
Lamp	W. P. Stedman	609,917	Aug. 30	3222	755	84	1341
Lamp	M. P. Stevens	599,520	Feb. 22	2537	596	82	1141
Lamp	F. T. Williams	614,916	Nov. 29	3036	695	85	1264
Lamp. Acetylene bicycle-	F. W. Hedgeland	608,403	Aug. 2	424	93	84	740
Lamp. Acetylene-gas	L. S. Buffington	614,638	Nov. 22	2169	499	85	1087
Lamp. Acetylene-gas	G. E. Hesse	606,385	June 28	2519	585	83	1887



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Lamp. Acetylene-gas.....	C. N. Lippitt.....	616,547	Dec. 27	2489	576	85	1951
Lamp. Acetylene-gas.....	O. G. Seward.....	603,746	May 10	906	201	83	793
Lamp. Acetylene-gas.....	D. S. Williams.....	614,592	Nov. 22	2441	556	85	1134
Lamp. Acetylene-gas-generating.....	L. S. Buffington.....	614,440	Nov. 22	2176	499	85	1088
Lamp. Acetylene-gas-generating.....	W. H. Dennis.....	610,477	Sept. 6	626	141	84	1559
Lamp. Acetylene-gas-generating.....	P. R. Harrison.....	596,703	Jan. 4	443	100	82	86
Lamp. Acetylene-gas-generating.....	H. Oehl.....	606,228	June 28	2225	511	83	1830
Lamp. Acetylene-gas-generating.....	F. Rhind.....	606,684	July 5	89	19	84	20
Lamp. Acetylene-gas-generating.....	C. L. and J. Zimmerman.....	600,846	Mar. 15	2201	503	82	1678
Lamp. Acetylene-gas-generating.....	J. Zimmerman.....	600,630	Mar. 15	1837	420	82	1608
Lamp. Acetylene-gas-generating.....	J. Zimmerman and F. L. White.....	600,847	Mar. 15	2202	503	82	1678
Lamp. Acetylene-gas-generator.....	F. W. Hedgeland.....	616,464	Dec. 27	2325	542	85	1920
Lamp. Acetylene-gas-generator.....	W. N. Moore.....	607,871	July 26	2501	531	84	537
Lamp. Acetylene-gas-generator.....	H. W. Wells.....	610,210	Sept. 6	104	22	84	1460
Lamp. Alcohol.....	A. Stewart.....	614,034	Nov. 8	1413	323	85	908
Lamp. Alcohol.....	G. T. Sutterley.....	615,586	Dec. 6	684	157	85	1546
Lamp. Aldehyde.....	E. Fournier.....	603,682	May 10	802	177	83	773
Lamp and making same. Incandescent electric.....	J. C. Fish.....	598,726	Feb. 8	1133	273	82	835
Lamp. Bicycle.....	C. C. Armstrong.....	614,315	Nov. 15	1926	445	85	1026
Lamp. Bicycle.....	L. J. Atwood.....	608,097	July 26	2901	621	84	618
Lamp. Bicycle.....	C. Bergener.....	609,192	Aug. 16	1908	454	84	1053
Lamp. Bicycle.....	C. Bergener.....	609,222	Aug. 16	1976	469	84	1068
Lamp. Bicycle.....	J. W. Bragger.....	597,385	Jan. 18	1603	372	82	346
Lamp. Bicycle.....	W. Leuckert.....	606,974	July 5	583	128	84	116
Lamp. Bicycle.....	F. K. Wright.....	599,088	Feb. 15	1730	410	82	966
Lamp-bracket.....	W. C. Homan.....	600,535	Mar. 15	1688	385	82	1580
Lamp-bracket.....	J. B. Timberlake.....	608,138	July 26	2962	635	84	630
Lamp-bracket.....	J. B. Timberlake.....	608,139	July 26	2965	636	84	630
Lamp bracket and stand. Combined.....	J. B. Long.....	609,822	Aug. 30	3069	716	84	1312
Lamp bulbs. Device for attaching or detaching electric.....	C. G. Edwards.....	609,421	Aug. 23	2340	552	84	1158
Lamp-burner.....	R. L. Coburn.....	596,482	Jan. 4	26	7	82	8
Lamp-burner.....	C. H. Dressel.....	612,562	Oct. 18	1713	406	85	353
Lamp-burner.....	J. Gregory.....	608,284	Aug. 2	198	47	84	694
Lamp-burner.....	J. R. Holley and E. C. Fowler.....	613,276	Nov. 1	95	22	85	634
Lamp-burner.....	P. Lucas.....	597,682	Jan. 18	2109	493	82	443
Lamp-burner.....	J. H. O'Brien.....	603,116	Apr. 26	2647	601	83	547
Lamp-burner.....	L. R. Oakes.....	604,412	May 24	2186	490	83	1094
Lamp-burner.....	J. H. White.....	603,417	May 3	302	68	83	658
Lamp-burner.....	R. J. Wilson.....	612,621	Oct. 18	1831	434	85	375
Lamp-burner.....	F. T. Williams.....	598,688	Feb. 8	1072	258	82	823
Lamp burner and wick. Combined.....	V. Bürklin.....	602,391	Apr. 12	1388	311	83	279
Lamp-burner chimney-holder.....	G. W. Carver.....	609,139	Aug. 16	1819	432	84	1037
Lamp-burner chimney-holder.....	H. P. Pfeffer and F. T. Mayer.....	616,007	Dec. 13	1440	337	85	1706
Lamp burner. Petroleum-glow.....	G. Kron.....	615,067	Nov. 29	3351	769	85	1325
Lamp-burner shield. Bicycle.....	H. L. Elton and N. J. Smith.....	599,525	Feb. 22	2549	598	82	1143
Lamp cap. Inclosed arc.....	C. E. Harthan.....	613,858	Nov. 8	1131	259	85	852
Lamp. Carbureting.....	W. J. Kidd.....	613,419	Nov. 1	379	88	85	687
Lamp-chimney.....	F. R. Huse.....	613,277	Nov. 1	95	22	85	634
Lamp-chimney.....	F. R. Huse.....	613,278	Nov. 1	96	22	85	635
Lamp-chimney.....	T. Redman.....	608,910	Aug. 9	1345	313	84	936
Lamp-chimney.....	G. J. Winkler.....	613,482	Nov. 1	499	112	85	710
Lamp-chimney bottoms. Machine for shaping.....	L. H. Dolan.....	612,835	Oct. 25	2239	535	85	472
Lamp-chimney cleaner.....	S. Larson.....	597,187	Jan. 11	1270	298	82	263
Lamp-chimney heating attachment.....	R. von Erichsen.....	598,562	Feb. 8	845	202	82	781
Lamp-chimney holder.....	A. C. Althouse.....	609,399	Aug. 23	2300	544	84	1151
Lamp-chimney holder.....	L. Mertz.....	608,615	Aug. 9	797	184	84	832
Lamp chimney. Incandescent.....	O. Schott.....	615,578	Dec. 6	674	155	85	1544
Lamp. Cycle.....	A. D. Prangley.....	600,447	Mar. 8	1500	343	82	1523
Lamp. Desk.....	W. E. Ward.....	605,529	June 14	854	200	83	1537
Lamp. Electric.....	W. S. Doe.....	615,686	Dec. 13	864	199	85	1595
Lamp. Electric.....	D. Misell.....	603,112	Apr. 26	2641	600	83	546
Lamp. Electric-arc.....	S. Bergmann.....	611,601	Oct. 4	10	2, 3	85	4
Lamp. Electric-arc.....	C. N. Black.....	599,032	Feb. 15	1651	390	82	951
Lamp. Electric-arc.....	E. Blaser.....	597,601	Jan. 18	1973	459	82	419
Lamp. Electric-arc.....	S. I. Crain.....	598,697	Feb. 8	1086	261	82	825
Lamp. Electric-arc.....	H. P. Davis and F. Conrad.....	599,931	Mar. 1	481	108	82	1305
Lamp. Electric-arc.....	J. H. Duncan.....	600,277	Mar. 8	1225	278	82	1473
Lamp. Electric-arc.....	F. A. Gilbert and E. O. Lundin.....	603,630	May 10	715	160	83	756
Lamp. Electric-arc.....	J. H. J. Haines.....	603,687	May 10	809	178	83	775
Lamp. Electric-arc.....	J. H. J. Haines.....	607,589	July 19	1957	406	84	417
Lamp. Electric-arc.....	M. Harris.....	610,898	Sept. 20	1364	312	84	1740
Lamp. Electric-arc.....	D. Higham.....	605,714	June 14	1200	277	83	1601
Lamp. Electric-arc.....	W. Hochhausen.....	605,228	June 7	318	73, 74	83	1411
Lamp. Electric-arc.....	A. W. Knutson.....	603,383	May 3	235	53	83	646
Lamp. Electric-arc.....	P. F. Krug.....	601,268	Mar. 29	2948	667	82	1861
Lamp. Electric-arc.....	G. R. Lean.....	598,942	Feb. 15	1485	354	82	917
Lamp. Electric-arc.....	G. R. Lean.....	598,943	Feb. 15	1495	355	82	920
Lamp. Electric-arc.....	A. Mougin.....	597,424	Jan. 18	1670	388	82	358
Lamp. Electric-arc.....	J. Mueller.....	602,404	Apr. 12	1410	318	83	284
Lamp. Electric-arc.....	M. S. Okun.....	615,407	Dec. 6	361	87	85	1482
Lamp. Electric-arc.....	M. S. Okun.....	615,408	Dec. 6	363	87	85	1483
Lamp. Electric-arc.....	T. H. Pettengill.....	603,283	May 3	67	17	83	614
Lamp. Electric-arc.....	T. H. Pettengill.....	611,460	Sept. 27	2427	557	84	1959
Lamp. Electric-arc.....	C. A. Pfluger.....	608,269	Aug. 2	172	41	84	689
Lamp. Electric-arc.....	H. J. Sage.....	599,635	Feb. 22	2772	644	82	1188



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lamp. Electric-arc	O. B. Skinner and G. M. Bacon	599,480	Feb. 22	2467	580	82	1127
Lamp. Electric-arc	T. Spencer	608,723	Aug. 9	991	228	84	870
Lamp. Electric-arc	F. W. Steinacker and E. F. Cowley	604,219	May 17	1819	408 409	83	1003
Lamp. Electric-arc	C. Tepel	599,305	Feb. 15	2100	497 498	82	1034
Lamp. Electric-arc	C. Tepel	599,880	Mar. 1	390	87	82	1287
Lamp. Electric-arc	E. Thomson	602,922	Apr. 26	2313	527	83	484
Lamp. Electric-arc	C. A. Vigreux and L. V. Brillié	612,556	Oct. 18	1694	402	85	349
Lamp. Electric-arc	E. P. Warner and H. H. Wait	599,818	Mar. 1	277	62	82	1265
Lamp. Electric-arc	E. Weber	602,380	Apr. 12	1364	305	83	275
Lamp. Electric-arc	F. S. Worsley	611,162	Sept. 20	1842	424	84	1831
Lamp. Electric-arc	F. Wright	606,108	June 21	1988	456	83	1766
Lamp. Electric bicycle	P. A. Dowd	598,198	Feb. 1	220	51	82	644
Lamp. Electric incandescent	H. F. Joel and F. Fanta	616,620	Dec. 27	2610	606	85	1972
Lamp. Electric incandescent	W. J. Phelps	603,705	May 10	838	186	83	780
Lamp-extinguisher. Automatic	J. McCarthy	598,951	Feb. 15	1509	359	82	923
Lamp filament. Incandescent	F. E. W. Bowen	597,492	Jan. 18	1802	82	82	384
Lamp filament. Incandescent	E. F. von Wilmowsky	597,172	Jan. 11	1248	82	82	259
Lamp-fitting	A. H. Griffiths and E. T. Read	614,100	Nov. 15	1530	350	85	952
Lamp. Flash	C. H. Goodman	611,009	Sept. 20	1557	359	84	1776
Lamp for generating acetylene gas	L. Serres	599,198	Feb. 15	1915	453	82	998
Lamp for incandescent lighting. Oil	J. Moeller	614,020	Nov. 8	1389	318 319	85	904
Lamp for incandescent lights. Antivibration	G. S. Barrows	615,239	Dec. 6	14	3	85	1413
Lamp for incandescent lights. Petroleum	A. Duffek	602,900	Apr. 26	2266	517	83	475
Lamp for liquid hydrocarbons. Incandescent	P. J. Fitzgerald	600,774	Mar. 15	2084	477	82	1655
Lamp for miners. Electrical safety	C. Francke	616,779	Dec. 27	2916	678	85	2034
Lamp for plumbers or painters. Blowpipe	W. Pullen	612,272	Oct. 11	1208	289	85	244
Lamp for railways, &c. Signal	E. S. Manning	608,695	Aug. 9	947	217	84	862
Lamp. Formaldehyde	R. P. Kuhn	599,849	Mar. 1	328	74	82	1275
Lamp. Gas	W. J. Smart	598,059	Jan. 25	2759	643	82	586
Lamp. Gas	W. J. Smart	599,873	Mar. 1	380	85	82	1285
Lamp globe. Arc	H. G. Mills	612,049	Oct. 11	820	201	85	171
Lamp globe. Incandescent	V. de Spruner-Mertz	605,026	May 31	3257	748	83	1316
Lamp-globe support. Detachable	W. R. Swift	599,877	Mar. 1	385	86	82	1286
Lamp guard. Electric	H. M. Underwood	612,999	Oct. 25	2499	595	85	524
Lamp hanger. Electric	J. E. Mayo	614,484	Nov. 22	2265	518	85	1104
Lamp hanger. Electric	W. F. Murphy	609,972	Aug. 30	3334	776	84	1363
Lamp-holder	F. K. Wright	612,148	Oct. 11	983	238	85	202
Lamp holder. Incandescent-electric	G. W. Cook, Jr	613,248	Nov. 1	39	9, 10	85	625
Lamp. Hydrocarbon incandescence	G. Washington	607,974	July 26	2675	571	84	571
Lamp illuminant and process of making. Incandescent-electric	O. M. Thowless	616,276	Dec. 20	1976	460	85	1820
Lamp. Incandescent	J. T. Lister	599,002	Feb. 15	1593	378	82	939
Lamp. Incandescent electric	M. W. Dewey	603,056	Apr. 26	2530	575	83	524
Lamp. Incandescent electric	J. T. Lister	599,910	Mar. 1	448	99	82	1298
Lamp. Incandescent electric	O. H. Michaelson	605,498	June 14	809	187	83	1529
Lamp. Incandescent gas	F. C. von Heydebrand und der Lasa and J. Loch	305,250	June 7	369	84	83	1421
Lamp. Incandescent gas	E. Lindner	615,286	Dec. 6	120	32	85	1436
Lamp. Incandescent gas	J. Moeller	615,626	Dec. 6	758	175	85	1562
Lamp. Incandescent vapor	R. L. Doran	616,829	Dec. 27	2997	698	85	2050
Lamp-lighter. Time	N. Durant	615,538	Dec. 6	604	138	85	1529
Lamp. Miner's	H. Dixon	597,840	Jan. 25	2393	557	82	515
Lamp. Miner's	W. D. Grace	600,418	Mar. 8	1444	330	82	1515
Lamp. Miner's safety	W. Best	610,511	Sept. 6	697	157	84	1573
Lamp. Oil	A. J. Riley	614,984	Nov. 29	3188	733	85	1296
Lamp or burner. Incandescent	D. J. Prendergast	597,430	Jan. 18	1681	390	82	360
Lamp or lantern	G. C. Krauss	596,780	Jan. 4	575	132	82	111
Lamp or lantern reflector attachment	W. Prewett	606,027	June 21	1832	422	83	1735
Lamp. Portable electric	O. T. Bugg, Jr	614,318	Nov. 15	1933	446	85	1027
Lamp. Portable electric	L. Paget	599,975	Mar. 1	550	127	82	1317
Lamp-post attachment	A. Wehr	597,343	Jan. 11	1528	356	82	314
Lamp radiator attachment. Arc	H. Stenz and G. Westermann	599,519	Feb. 22	2535	596	82	1141
Lamp refracting globe or chimney	R. Burger	616,400	Dec. 20	2201	514	85	1874
Lamp regulator. Electric	D. M. Moore	604,680	May 24	2666	611	83	1184
Lamp regulator. Incandescent-electric	D. M. Moore	604,679	May 24	2665	611	83	1183
Lamp. Safety incandescent electric	F. G. W. J. Adams	603,883	May 10	1170	264	83	844
Lamp safety-lock. Incandescent	E. Fallor and H. Herbstritt	605,279	June 7	424	95	83	1432
Lamp. Self-adjustable bicycle	F. S. Snyder	605,354	June 7	572	126	83	1461
Lamp-shade	C. S. Bradford	612,305	Oct. 11	1269	306	85	255
Lamp shade or cover. Incandescent	W. H. Wells	609,924	Aug. 30	3231	756	84	1343
Lamp. Signal	C. H. Dressel	613,562	Nov. 1	618	143	85	734
Lamp signal device	J. H. Torney	609,849	Aug. 30	3105	724	84	1319
Lamp socket and base. Incandescent electric	C. Van Deventer	616,507	Dec. 27	2420	560	85	1938
Lamp socket. Electric	F. M. Bell	612,152	Oct. 11	993	241	85	204
Lamp socket. Electric	J. E. Crigall	612,560	Oct. 18	1710	406	85	352
Lamp. Spirit	E. B. Manning and M. Seips	599,147	Feb. 15	1834	435	82	984
Lamp. Street	T. Langston	616,193	Dec. 20	1816	419	85	1798
Lamp. Street	D. J. Prendergast	597,546	Jan. 18	1879	436	82	399
Lamp. Street	A. E. Shaw and W. G. Lees	597,439	Jan. 18	1704	395	82	364
Lamp. Street	V. H. Slinack	597,548	Jan. 18	1884	437	82	401
Lamp support. Electric	O. C. White	596,729	Jan. 4	488	111	82	95
Lamp support. Incandescent	W. J. Goings	598,220	Feb. 1	266	58	82	653
Lamp-suspending device. Arc	J. Borka	611,766	Oct. 4	298	71	85	61
Lamp switch. Arc	C. A. Pfluger	606,939	July 5	531	117	84	105
Lamp. Vapor	A. E. Veon	596,765	Jan. 4	552	126	82	106
Lamp. Welsbach	F. A. Cortis	610,473	Sept. 6	620	139	84	1557
Lamps. Adjustable support for incandescent	W. J. Goings	598,218	Feb. 1	263	58	82	652
Lamps, &c. Automatic igniting device for gas	C. F. Nebendahl	604,074	May 17	1558	349	83	952
Lamps. Cluster-fixture for electric incandescent	N. Weeks	601,108	Mar. 22	2634	601	82	1774
Lamps. Composition of matter for incandescent gas	A. Simonini	599,018	Feb. 15	1628	82	82	946
Lamps. Device for facilitating lighting of cycle or other	H. E. Jackson and J. A. Anderson	608,154	July 26	2992	642	84	635
Lamps, gas-burners, &c. Support-bracket for	C. M. Toland	604,133	May 17	1666	374	83	972



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Lamps. Heating-drum for.....	C. H. B. Randleff.....	611,509	Sept. 27	2515	581	84	1977
Lamps, &c. Igniting device for miners'.....	C. H. Wolf.....	612,293	Oct. 11	1248	300	85	252
Lamps. Light refracting and magnifying envelop for incandescent.....	F. W. Dunlap and J. R. Quain.....	597,964	Jan. 25	2595	607	82	554
Lamps. Lighting or extinguishing automatically incandescent electric.....	C. S. Cole and J. H. Kinsman.....	616,770	Dec. 27	2899	673	85	2030
Lamps. Means for varying candle-power of incandescent electric.....	C. E. Felch.....	596,582	Jan. 4	214	47	82	43
Lamps. Mechanism for supporting electric-arc.....	W. A. McCallum.....	613,293	Nov. 1	125	29	85	641
Lamps, &c. Mold for manufacturing.....	H. J. Hays.....	598,224	Feb. 1	271	60, 61	82	654
Lamps. Safety cut-out for electric.....	A. N. Lovelace.....	598,733	Feb. 8	1145	275	82	837
Lamps. Support and take-up device for cable-suspended electric.....	J. H. Dorion.....	616,607	Dec. 27	2589	601	85	1968
Lamps, &c. Support for incandescent.....	W. J. Going.....	598,219	Feb. 1	264	58	82	652
Lamps, &c. Support for incandescent.....	W. J. Going.....	598,221	Feb. 1	267	59	82	653
Lampblack-machine. Automatic.....	J. J. Williams.....	601,389	Mar. 29	3152	711	82	1899
Land bedder and cultivator.....	M. N. Parker.....	608,901	Aug. 9	1328	310	84	931
Land-roller.....	W. F. Goodhue.....	601,775	Apr. 5	293	58	83	56
Land-roller.....	M. A. Martindale.....	616,717	Dec. 27	2824	654	85	2015
Land-roller.....	E. B. Reece.....	614,345	Nov. 15	1991	460	85	1039
Land-roller.....	F. Schonhoff.....	609,632	Aug. 23	2755	642	84	1236
Land-roller.....	J. M. Seymour, Jr.....	606,687	July 5	93	20	84	21
Land-roller.....	W. Wildman.....	602,968	Apr. 26	2395	546	83	500
Land roller and pulverizer.....	M. Miller.....	607,186	July 12	1035	224	84	217
Lands. Raising levels of low.....	P. Poincy.....	606,980	July 5	596	131	84	119
Lantern.....	A. L. Baron and J. F. Haffey.....	597,254	Jan. 11	1379	322	82	283
Lantern.....	A. L. Baron and J. F. Haffey.....	602,206	Apr. 12	1078	236	83	217
Lantern.....	A. H. Cadwallader and E. P. Carolan.....	613,188	Oct. 25	2799	660	85	584
Lantern.....	E. J. Dally.....	601,128	Mar. 22	2664	608	82	1779
Lantern.....	G. Eastman.....	611,898	Oct. 4	531	129	85	106
Lantern.....	H. G. Mills.....	614,485	Nov. 22	2266	518	85	1104
Lantern.....	E. M. Rosenbluth.....	606,028	June 21	1834	423	83	1736
Lantern.....	E. M. Rosenbluth.....	609,558	Aug. 23	2581	604	84	1203
Lantern.....	C. M. Widrig.....	614,591	Nov. 22	2440	556	85	1134
Lantern attachment. Railway.....	A. H. Burchard.....	613,491	Nov. 1	509	115	85	712
Lantern. Bicycle.....	W. N. Beardsley and S. A. North.....	599,467	Feb. 22	2446	575	82	1123
Lantern. Bicycle.....	J. H. Lehman.....	607,544	July 19	1872	389	84	401
Lantern. Bicycle.....	J. C. Miller.....	599,149	Feb. 15	1837	435	82	985
Lantern-bracket.....	J. W. Bragger.....	602,122	Apr. 12	921	201	83	186
Lantern-bracket.....	J. Haskin.....	613,511	Nov. 1	539	122	85	718
Lantern-bracket.....	F. Rhind.....	614,347	Nov. 15	1995	460	85	1040
Lantern. Dark.....	R. M. G. Phillips.....	614,341	Nov. 15	1980	457	85	1037
Lantern. Electric.....	F. G. W. J. Adams.....	603,882	May 10	1168	263	83	844
Lantern. Electric.....	O. C. Prasse.....	601,758	Apr. 5	263	51	83	50
Lantern for vehicles, &c. Candle-burning.....	A. Bock.....	611,099	Sept. 20	1724	396	84	1809
Lantern-holder.....	J. A. Miller.....	614,880	Nov. 29	2969	682	85	1252
Lantern-holder.....	H. Nocon.....	598,642	Feb. 8	985	238	82	807
Lantern-lighting attachment.....	R. D. Gregg.....	597,769	Jan. 25	2257	526	82	489
Lantern. Miner's.....	H. J. Delzell.....	597,960	Jan. 25	2590	605	82	552
Lantern. Oven.....	F. C. Stolz.....	604,239	May 17	1857	415	83	1010
Lantern safety device.....	F. H. Dewey.....	611,858	Oct. 4	464	112	85	93
Lantern. Signal.....	M. E. Wells.....	597,809	Jan. 25	2340	547	82	504
Lantern. Tubular.....	C. L. Betts.....	598,072	Feb. 1	5	2	82	603
Lantern. Tubular or hurricane.....	J. H. Schlafly.....	612,508	Oct. 18	1608	384	85	333
Lantern. Vacuum-tube.....	L. Wallach.....	602,966	Apr. 26	2392	545	83	499
Lantern. Vehicle.....	C. E. Smack and W. Bulkeley.....	596,949	Jan. 4	861	202	82	168
Lap-machine. Exhaust-opener.....	T. R. Marsden.....	609,155	Aug. 16	1848	439	84	1042
Lap-robe.....	H. W. Plant.....	609,365	Aug. 16	2232	528	84	1119
Lap-robe holder.....	A. L. Cox and B. F. Rider.....	612,826	Oct. 25	2209	524	85	467
Lappet-shearing mechanism.....	E. T. and E. H. Marble.....	604,772	May 31	2840	649	83	1234
Last.....	W. B. Arnold.....	607,978	July 26	2685	572	84	573
Last.....	G. H. Clark.....	612,480	Oct. 18	1569	375	85	325
Last.....	G. H. Clark.....	612,481	Oct. 18	1570	376	85	326
Last.....	E. L. Goding.....	604,382	May 24	2132	479	83	1084
Last.....	E. L. Goding.....	604,383	May 24	2133	479	83	1084
Last.....	J. F. Grant.....	606,164	June 21	2090	480	83	1784
Last.....	E. O. and G. A. Krentler.....	603,790	May 10	988	221	83	809
Last.....	O. A. Miller.....	597,779	Jan. 25	2284	534	82	494
Last.....	C. F. Pym.....	608,006	July 26	2756	585	84	589
Last.....	J. H. Ryder and I. H. Fish.....	612,870	Oct. 25	2297	548	85	483
Last.....	C. H. Saunders.....	597,784	Jan. 25	2296	536	82	496
Last.....	J. F. Teehan.....	609,244	Aug. 16	2020	479	84	1077
Last.....	A. D. Tyler, Jr.....	601,621	Mar. 29	3525	804	82	1974
Last.....	A. D. Tyler, Jr.....	601,622	Mar. 29	3528	804	82	1974
Last.....	E. C. Wright.....	605,768	June 14	1285	298	83	1617
Last and stand. Shoe.....	J. J. Bailey.....	613,438	Nov. 1	415	95	85	695
Last and stand. Shoemaker's.....	H. L. Phelps.....	598,812	Feb. 8	1259	305	82	858
Last and tree-foot combined.....	M. A. Linfield.....	596,712	Jan. 4	456	103	82	89
Last. Boot.....	P. Kelley.....	597,882	Jan. 25	2458	574	82	527
Last for shoes and standard for supporting same.....	F. J. Hruza.....	615,989	Dec. 13	1403	328	85	1699
Last-holder.....	I. Fréchette.....	599,776	Mar. 1	177	44	82	1249
Last. Shoe.....	G. H. Banks.....	606,114	June 21	1999	458	83	1768
Last. Shoe.....	F. G. Pabst.....	600,678	Mar. 15	1928	439	82	1625
Last-support.....	J. J. Kinzer, Jr.....	613,862	Nov. 8	1137	260	85	853
Last with spring connection. Divided.....	E. L. Goding.....	614,461	Nov. 22	2211	508	85	1094
Lasts. Means for locking or unlocking hinged.....	D. C. Luce.....	608,782	Aug. 9	1089	251	84	887
Lasting device. Shoe.....	W. H. Crawford.....	616,289	Dec. 20	1996	464	85	1834
Lasting-machine.....	M. Brock.....	601,933	Apr. 5	586	122	83	111
Lasting-machine.....	M. Brock.....	601,934	Apr. 5	594	123	83	112



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Lasting-machine	M. Brock	601,935	Apr. 5	598	125 126	83	112
Lasting-machine	M. Brock	601,936	Apr. 5	604	126 127	83	114
Lasting-machine	M. Brock	601,937	Apr. 5	610	127 128	83	115
Lasting-machine	M. Brock	601,938	Apr. 5	614	128 129	83	115
Lasting-machine	M. Brock	601,939	Apr. 5	619	129 130	83	116
Lasting-machine	M. Brock	601,940	Apr. 5	625	131 132	83	117
Lasting-machine	C. Eisenberg	605,091	June 7	44	14	83	1361
Lasting-machine	F. Keil	601,148	Mar. 22	2696	619 620	82	1785
Lasting-machine	C. W. King	612,346	Oct. 11	1837	323 324 325	85	268
Lasting-machine	S. W. Ladd	597,321	Jan. 11	1479	346 347	82	304
Lasting-machine	A. F. Preston	597,247	Jan. 11	1364	319	82	280
Lasting-machine. Hand	G. H. Abeel	605,770	June 14	1288	299	83	1618
Lasting-pincers	A. F. Preston	598,111	Feb. 1	71	16	82	616
Latch	J. L. Duitman	600,952	Mar. 22	2379	542	82	1725
Latch	I. N. Lauder	607,866	July 26	2493	528	84	536
Latch	W. E. Lott	615,076	Nov. 29	3367	772	85	1328
Latch	N. J. Meigs	605,170	June 7	201	51	83	1388
Latch	H. E. Russell	606,246	June 28	2266	523	83	1839
Latch	H. G. Voight	602,886	Apr. 26	2242	509	83	470
Latch and lock combined	O. Holmes	606,550	June 28	2821	649	83	1948
Latch and lock. Combined	W. L. Smith and H. M. Putt	605,353	June 7	570	126	83	1461
Latch and lock. Gravity	C. E. Moats	616,626	Dec. 27	2621	607	85	1974
Latch and stop. Combined door	G. D. Pettingell	597,219	Jan. 11	1323	308	82	272
Latch. Door-	P. Brown, Jr.	613,659	Nov. 8	772	176	85	784
Latch for wagons. End-gate	L. Pfeiffer, Jr.	614,758	Nov. 22	2745	626	85	1193
Latch. Gate-	C. E. Baldwin	614,072	Nov. 15	1477	339	85	943
Latch. Gate-	C. S. Martin	610,304	Sept. 6	316	68	84	1502
Latch. Gate-	E. Mathson	601,579	Mar. 29	3463	788	82	1962
Latch. Gate-	J. M. Moore and E. Hess	614,406	Nov. 15	2104	484	85	1060
Latch. Gate-	F. A. Raenhart	602,520	Apr. 19	1606	367	83	335
Latch. Knob-	M. Jackson and F. Soley	601,077	Mar. 22	2586	589	82	1764
Latch-lock	V. Watrous	597,341	Jan. 11	1525	356	82	313
Latch mechanism	C. H. Bridgen	604,516	May 24	2385	542	83	1129
Latch mechanism. Gate	L. Van Oist	608,353	Aug. 2	336	74	84	722
Latch. Night-	C. H. Bridgen	598,472	Feb. 1	688	168	82	733
Latch-operating mechanism	W. H. Taylor	608,489	Aug. 2	568	127	84	768
Latch. Sliding-door	C. R. Case	602,728	Apr. 19	1972	448	83	404
Latch. Supplemental blind-	H. G. Cleaveland	611,235	Sept. 27	1990	459	84	1879
Lath.	G. A. Turnbull	609,481	Aug. 23	2465	575	84	1181
Lath. Metal	E. M. Spining	598,582	Feb. 8	880	210	82	788
Laths. Machine for making sheet-metal	G. A. Ohl	607,071	July 12	814	178	84	177
Lathing	P. Kühne	604,698	May 24	2710	619	83	1191
Lathing. Die for making metallic	C. Forth	604,525	May 24	2397	545	83	1131
Lathing-machine	D. J. Charbonneau	614,443	Nov. 22	2181	500	85	1088
Lathing. Metallic	R. E. Daniels	608,759	Aug. 9	1053	241	84	881
Lathing. Metallic	R. E. Daniels	608,760	Aug. 9	1053	241	84	882
Lathing. Metallic	G. A. Ohl, Jr.	616,202	Dec. 20	1829	423	85	1800
Lathing. Roller-die for making metallic	A. R. Fordyce	604,695	May 24	2705	618	83	1190
Lathe	W. Donaldson	615,146	Nov. 29	3483	799 800	85	1351
Lathe	L. E. Whiton	610,981	Sept. 20	1509	346 347	84	1767
Lathe and attachment	E. L. Striegler	597,303	Jan. 11	1448	339 340	82	297
Lathe attachment	J. A. Bailey	609,767	Aug. 30	3958	692	84	1289
Lathe attachment	A. J. Farmer	603,400	May 3	269	60	83	652
Lathe attachment	G. C. Malone	599,510	Feb. 22	2524	598	82	1139
Lathe attachment	T. C. Walker	602,965	Apr. 26	2390	545	83	499
Lathe boring-bar device	F. Stansbury	603,293	May 3	81	21	83	617
Lathe centering-tool	R. C. Wrege	606,985	July 5	605	132	84	119
Lathe. Crank-axle	W. H. Fauber	614,853	Nov. 29	2929	672 673	85	1243
Lathe-dog	W. Sandiford	602,606	Apr. 19	1751	399	83	361
Lathe. Double-turret	J. W. Brown, Jr.	610,319	Sept. 6	343	73, 74	84	1507
Lathe. Engine-	E. H. Fish	598,143	Feb. 1	120	28	82	625
Lathe. Engine-	B. A. Wheeler	602,924	Apr. 26	2317	528	83	485
Lathe for hollow metallic objects. Spinning-	C. Collin	596,675	Jan. 4	382	86	82	76
Lathe. Metal-turning	G. H. Webb	599,275	Feb. 15	2040	483 484	82	1023
Lathe recessing-tool	G. E. Miller	605,184	June 7	227	55	83	1394
Lathe taper attachment	J. D. Hazlet	607,744	July 19	2216	469	84	465
Lathe-tool and holder therefor	O. Seidis	611,517	Sept. 27	2528	583 584	84	1979
Lathe. Turret-	J. P. Lavigne	607,693	July 19	2137	449 450 451	84	449
Lathe. Turret-	J. P. Lavigne. (Reissue)	11,690	Aug. 30	3640	845 846 847	84	1426
Lathe. Turret-	J. Rodgers	596,830	Jan. 4	660	152 153	82	128
Lathe turret-head. Automatic	A. J. Johnson	603,484	May 3	439	98	83	686
Lathe. Wood-turning	N. R. Springer	611,522	Sept. 27	2535	585	84	1981
Lathes. Feed mechanism for clothes-pin	M. D. Lear	614,113	Nov. 15	1558	356 357	85	958
Laundried articles. Machine for smoothing edges of	F. E. Fay	615,975	Dec. 13	1371	321	85	1693



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Laundry apparatus.....	J. D. Budd.....	597,602	Jan. 18	1975	460	82	420
Laundry dampening device.....	F. E. Fay.....	615,974	Dec. 13	1370	321	85	1693
Laundry-fork.....	F. X. Krabach.....	597,987	Jan. 25	2645	618	82	563
Laundry-tub cover and draining-board. Combined.....	P. G. Fischer.....	610,088	Aug. 30	3453	799	84	1386
Lawn-rake. Rotary.....	F. H. Walton.....	604,812	May 31	2901	663 664	83	1247
Lawn-rake, scraper, and cutter. Combined.....	E. Starkwether.....	599,368	Feb. 22	2242	532	82	1084
Lawn-sprinkler.....	W. F. Brown.....	608,646	Aug. 9	863	199	84	844
Lawn-sprinkler.....	J. H. Smith.....	601,065	Mar. 22	2569	586	82	1761
Lawn-sprinkler.....	F. Struhs.....	616,032	Dec. 13	1484	347	85	1716
Laying-out or lining device.....	H. M. Burnett.....	607,158	July 12	983	213	84	207
Lead. Electrodeposition of.....	E. P. Clark.....	598,313	Feb. 1	428	102	82	683
Lead from its ores. Extraction of.....	H. R. Angel.....	599,310	Feb. 22	2131	-----	82	1063
Lead from waste products. Recovering protoxide of.....	A. Wohl.....	601,299	Mar. 29	3003	-----	82	1872
Lead. Manufacture of white.....	T. C. Sanderson.....	613,318	Nov. 1	171	-----	85	650
Lead pigment and manufacturing same.....	C. V. Petraeus.....	611,388	Sept. 27	2297	531	84	1935
Lead pigment and manufacturing same.....	C. V. Petraeus.....	611,389	Sept. 27	2299	-----	84	1935
Lead sulfite. Manufacturing.....	A. C. J. Charlier.....	608,028	July 26	2801	596	84	598
Leads, spaces, and quads from dead-matter. Machine for discarding.....	P. F. Cox.....	604,305	May 17	1977	443 444 445	83	1034
Leaf-stemming machine.....	G. P. Butler.....	615,247	Dec. 6	25	6	85	1416
Leak and fire alarm. Combined.....	H. I. Lurye.....	613,636	Nov. 1	740	172	85	758
Leather and rubber substitute.....	O. B. Dodge.....	601,828	Apr. 5	387	82	83	72
Leather-dressing composition.....	D. Marcus.....	602,762	Apr. 19	2019	-----	83	413
Leather-dressing machine.....	T. P. Coombs.....	599,928	Mar. 1	475	107 108	82	1303
Leather-dressing machine.....	E. B. Parkhurst.....	604,903	May 31	3056	703	83	1277
Leather-dressing machinery.....	W. S. Shaw.....	610,613	Sept. 13	868	199	84	1624
Leather. Machine for covering rolls with.....	J. S. Turner.....	609,597	Aug. 23	2658	621	84	1218
Leather. Machine for scarf-jointing.....	W. Kaulhausen.....	609,549	Aug. 23	2567	601 602	84	1201
Leather. Making waterproof.....	C. H. Stone.....	606,882	July 5	454	-----	84	89
Leather offal. Machine for preparing and reducing.....	G. Brigalant.....	611,956	Oct. 4	626	152	85	122
Leather-shaving-machine knife-sharpening mechanism.....	J. Boyle.....	605,627	June 14	1050	241	83	1572
Leather-skiving machine.....	C. H. Bayley.....	609,868	Aug. 30	3134	732	84	1325
Leather-skiving machine.....	W. H. Weston.....	615,935	Dec. 13	1302	304	85	1678
Leather-snipping machine.....	C. C. Rogers.....	616,733	Dec. 27	2847	659 660	85	2020
Leather-splitting machine.....	C. H. Allen.....	611,026	Sept. 20	1587	364	84	1782
Leather-staking machine.....	M. H. Connor.....	605,272	June 7	412	93	83	1430
Leather-staking machine.....	J. Craig and F. F. Slocomb.....	604,560	May 24	2462	560 561	83	1143
Leather-stretching mechanism.....	G. H. and F. A. Noble.....	598,207	Feb. 1	243	54	82	648
Leather-work. Rotary cutter for.....	E. Childs.....	604,002	May 10	1413	316	83	895
Leather-work. Rotary cutter for.....	E. Childs.....	613,618	Nov. 1	709	165	85	752
Leather-working machine.....	G. W. Baker.....	611,883	Oct. 4	504	121 122 123	85	100
Leather-working machine.....	O. Stegmeyer.....	600,955	Mar. 22	2382	543	82	1725
Lecture-room seat.....	H. B. Hiteshew and W. F. Spieth.....	601,874	Apr. 5	491	101	83	91
Ledger. Loose-leaf.....	H. G. Razall.....	612,436	Oct. 18	1489	359	85	311
Leg. Artificial.....	M. E. Hagen.....	597,465	Jan. 18	1756	407	82	375
Leg. Artificial.....	A. Larsson.....	611,812	Oct. 4	383	92	85	77
Leg. Artificial.....	A. E. Tullis.....	598,452	Feb. 1	657	162	82	728
Leg. Artificial.....	H. I. Weller.....	608,812	Aug. 9	1176	274 275	84	902
Legging.....	G. H. Cook.....	608,253	Aug. 2	147	36, 37	84	683
Lemon-pulp remover and strainer.....	C. Hunt.....	597,851	Jan. 25	2408	561	82	518
Lemon-squeezer.....	J. L. Easley.....	614,374	Nov. 15	2045	472	85	1049
Lemon-squeezer.....	G. R. Howell.....	598,150	Feb. 1	128	29	82	627
Lemon-squeezer.....	E. D. Middlekauff.....	599,856	Mar. 1	338	77	82	1277
Lemon-squeezer.....	E. D. Middlekauff.....	612,362	Oct. 11	1366	331	85	273
Lemon-squeezer.....	C. Morgan.....	602,088	Apr. 12	865	188	83	175
Lemonade-making device.....	J. C. Gundelfinger.....	599,605	Feb. 22	2705	633	82	1173
Lemonade-shaker.....	J. L. and Z. R. Green.....	602,939	Apr. 26	2351	536	83	492
Lens-cutting machine.....	J. J. Bausch.....	607,009	July 12	673	146 147	84	153
Lens-cutting machine.....	F. G. Blanchard.....	602,207	Apr. 12	1079	236 237	83	217
Lens for illuminating tiles.....	J. Mark.....	602,763	Apr. 19	2020	458	83	413
Lens for sidewalks. Illuminating.....	E. J. Sullivan.....	603,799	May 10	1002	224	83	812
Lens-grinding machine.....	H. E. Murdock.....	615,089	Nov. 29	3388	776	85	1332
Lenses. Machine for drilling eyeglass.....	W. A. Peck.....	596,537	Jan. 4	133	30	82	28
Letter-box.....	P. S. Bates.....	604,956	May 31	3141	722	83	1294
Letter-box.....	J. E. Costello.....	613,795	Nov. 8	1032	234	85	833
Letter-box.....	J. J. Herzog.....	604,323	May 17	2016	451 452	83	1041
Letter-box.....	R. W. Kelly.....	597,420	Jan. 18	1663	386	82	356
Letter-box.....	M. J. Wine and C. A. Thompson.....	605,592	June 14	970	224	83	1559
Letter-box. Coin-controlled.....	G. L. Helps.....	598,534	Feb. 8	799	191	82	771
Letter-clasp.....	S. J. L. and I. Neugroschl and C. Walters.....	609,208	Aug. 16	1935	460	84	1058
Letter-press book.....	A. Kahn.....	603,729	May 10	878	195	83	788
Letters, &c. Apparatus for keeping.....	T. B. Vernon.....	602,116	Apr. 12	912	198 199	83	185
Letters. Device for handling general-delivery.....	C. E. Varney.....	613,538	Nov. 1	580	133	85	726
Letters, &c. Safety device for.....	E. T. Young and W. A. Macdonald.....	607,319	July 12	1282	274	84	264
Letters, &c. to windows, &c. Means for securing.....	J. S. White.....	598,331	Feb. 1	456	109	82	688
Levees, &c. Construction of.....	D. Jordan and J. W. Duncan.....	600,832	Mar. 15	2178	496	82	1673
Level.....	J. J. Lankford.....	613,160	Oct. 25	2752	648	85	574
Level.....	J. Linton and J. Burgher.....	602,137	Apr. 12	942	206	83	190
Level.....	E. G. Smith.....	612,577	Oct. 18	1738	412	85	357
Level.....	W. Stettler and T. M. Wilhelm.....	610,952	Sept. 20	1451	333	84	1757
Level and grading instrument. Combined spirit.....	C. Castor.....	601,629	Apr. 5	9	2	83	4



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				Spec.	Dr'g	Vol.	Page.
Level. Plumb-.....	W. H. Atwood .....	609,395	Aug. 16	2288	541	84	1130
Level. Plumb-.....	H. S. Minot .....	597,886	Jan. 25	2163	575	82	528
Level. Plumb-.....	T. N. Roach .....	602,874	Apr. 26	2221	503	83	467
Level. Plumb-.....	F. C. Vredenburg and C. F. La- throp. ....	603,368	May 3	208	47	83	641
Level. Plumb-.....	C. Warren .....	600,326	Mar. 8	1297	296	82	1487
Level. Spirit-.....	J. Hartford .....	604,985	May 31	3186	734	83	1302
Level. Spirit-.....	A. Volsinkler .....	600,756	Mar. 15	2058	471	82	1651
Level, square, and plumb. Combined	L. S. Starrett .....	613,946	Nov. 8	1274	289	85	880
Leveling-rod .....	A. E. B. Hill .....	613,147	Oct. 25	2732	645	85	570
Leveling-rod .....	L. Klein .....	599,242	Feb. 15	1990	473	82	1013
Leveling-tool .....	J. P. Kane .....	598,101	Feb. 1	55	13	82	613
Lever and ratch attachment .....	H. D. Williams, H. G. Hoadley, and E. C. Lewis. ....	613,950	Nov. 8	1279	290 291	85	881
Lever mechanism .....	S. W. Hyatt .....	600,125	Mar. 1	968	214	82	1407
Lever. Throttle-.....	L. W. Canady .....	610,027	Aug. 30	3431	795	84	1382
Lever. Uncoupling-.....	R. H. Munger .....	600,549	Mar. 15	1711	392	82	1585
Lid for pots, &c .....	J. W. Strother .....	606,599	June 28	2906	672	83	1964
Lid-holder .....	J. Hilt .....	602,753	Apr. 19	2009	455	83	411
Lid-holder and kettle-drainer .....	A. E. Karsner .....	612,422	Oct. 18	1467	354	85	306
Lid-lifter .....	L. J. A. Moritz .....	604,477	May 24	2314	525	83	1117
Lid-support .....	A. Loewe .....	608,692	Aug. 9	940	216	84	861
Life from fires, &c. •Apparatus for saving .....	E. A. Bull. ....	607,912	July 26	2575	545 546	84	552
Life-insurance table or chart .....	N. P. Neal .....	602,035	Apr. 5	773	167 168	83	146
Life-preserver, &c .....	E. E. Roussel .....	607,137	July 12	944	205	84	201
Life-preserver .....	G. B. Shepherd .....	616,439	Dec. 20	2270	530	85	1889
Life-saving apparatus .....	W. G. Burton .....	600,355	Mar. 8	1345	308	82	1496
Lift. Hydraulic .....	T. E. Brown .....	604,364	May 24	2107	472 473	83	1079
Lift or handle for boxes, cases, &c. Detachable-.....	T. Green .....	615,355	Dec. 6	249	58	85	1462
Lift. Safety-.....	M. J. Oliver .....	615,362	Dec. 6	261	61	85	1465
Lift safety device .....	H. Kurtzig .....	607,998	July 26	2723	581	84	579
Lifts, hoists, &c. Automatic safety device for .....	A. Musnicki .....	607,450	July 19	1527	325	84	328
Lifter:							
See Barrel-lifter. ....	Picture-lifter. ....						
Clothes-lifter. ....	Sash-lifter. ....						
Coal-hod lifter. ....	Skirt-lifter. ....						
Coat-lifter. ....	Skylight-lifter. ....						
Lid-lifter. ....	Sucker-rod lifter. ....						
Merchandise-lifter. ....	Transom-lifter. ....						
Pan-lifter. ....	Truck-lifter. ....						
Lifter .....	J. J. Lee .....	600,432	Mar. 8	1467	334	82	1519
Lifting device .....	W. T. B. Clemm .....	601,631	Apr. 5	12	3	83	5
Lifting-jack .....	P. Brown .....	605,072	June 7	10	3	83	1355
Lifting-jack .....	R. Campbell .....	609,873	Aug. 30	3145	735	84	1327
Lifting-jack .....	F. W. Chickering .....	602,056	Apr. 12	807	174	83	164
Lifting-jack .....	J. C. Covert .....	615,433	Dec. 6	404	96	85	1491
Lifting-jack .....	J. C. Covert .....	615,809	Dec. 13	1077	252	85	1636
Lifting-jack .....	J. C. Hackett .....	604,583	May 24	2507	570	83	1152
Lifting-jack .....	J. T. Haskin .....	612,725	Oct. 18	2010	477	85	408
Lifting-jack .....	E. and A. G. Hayford .....	598,660	Feb. 8	1019	246	82	813
Lifting-jack .....	D. T. Hill .....	597,850	Jan. 25	2407	560	82	518
Lifting-jack .....	E. Huber .....	610,651	Sept. 13	926	213	84	1636
Lifting-jack .....	G. W. Hughs .....	613,997	Nov. 8	1356	309	85	897
Lifting-jack .....	W. H. Newbill .....	611,703	Oct. 4	200	47	85	42
Lifting-jack .....	R. Raby .....	615,745	Dec. 13	963	223	85	1614
Lifting-jack .....	A. Rhodes .....	615,105	Nov. 29	3414	783	85	1337
Lifting-jack .....	O. A. Rohrer .....	613,317	Nov. 1	170	38	85	649
Lifting-jack .....	J. A. Starrett and E. F. Welsh .....	599,536	Feb. 22	2562	601	82	1146
Lifting-jack .....	H. M. Stevenson .....	601,451	Mar. 29	3262	737	82	1920
Lifting-jack .....	F. Thomas .....	599,026	Feb. 15	1643	389	82	949
Lifting-jack .....	W. E. Tyler .....	605,210	June 7	282	65	83	1403
Lifting-jack .....	F. A. Uptegrove .....	604,808	May 31	2896	662	83	1246
Lifting-jack .....	W. C. Walker .....	601,293	Mar. 29	2993	676	82	1870
Lifting-jack .....	D. Warner .....	612,371	Oct. 11	1379	334	85	276
Lifting-jack .....	E. Wiggershaus .....	612,079	Oct. 11	871	211	85	181
Lifting platform. Vertically-.....	J. Doldt .....	610,602	Sept. 13	854	196	84	1620
Lifting-tool .....	Z. L. Pierce .....	613,303	Nov. 1	141	33	85	644
Ligatures, &c. Container for .....	J. E. Lee .....	612,355	Oct. 11	1355	328	85	272
Light:							
See Drop-light. ....	Skylight. ....						
Incandescent light. ....	Welsbach or other incan- descent light. ....						
Railway signal-light. ....							
Light for sidewalks, &c .....	J. Jacobs .....	614,327	Nov. 15	1963	453	85	1033
Light-extinguisher. Time .....	J. Gunning .....	615,164	Nov. 29	3516	808	85	1358
Lighter. Automatic .....	D. K. Hawley .....	602,045	Apr. 5	789	171	83	149
Lighthouse appliance .....	J. M. Williams .....	607,780	July 19	2282	482	84	477
Lighting implement .....	H. M. Edwards .....	604,693	May 24	2703	617	83	1189
Lightning-arrester .....	W. E. Athearn .....	606,954	July 5	550	121	84	109
Lightning-arrester .....	C. C. Chesney .....	612,015	Oct. 11	757	187	85	159
Lightning-arrester .....	J. F. Kelly .....	608,685	Aug. 9	930	214	84	859
Limb. Artificial .....	M. B. Donaldson and W. Kespohl .....	602,386	Apr. 12	1379	308	83	278
Limb. Artificial .....	F. V. McParlin .....	615,299	Dec. 6	140	37	85	1440
Limb. Artificial .....	J. A. Packer .....	608,791	Aug. 9	1105	256	84	890
Limb. Artificial .....	R. F. Smith .....	612,282	Oct. 11	1223	292	85	247
Limb. Artificial .....	A. L. Woodland .....	598,458	Feb. 1	665	164	82	729
Limb fastening. Artificial-.....	C. P. Case .....	616,076	Dec. 20	1563	365	85	1747
Lime and cement. Apparatus for burning and grinding .....	G. Duryee .....	611,110	Sept. 20	1753	402	84	1813
Lime and method of and apparatus for obtaining same. Amorphous carbonate of .....	H. E. Sturcke .....	601,007	Mar. 22	2477	564	82	1742
Lime from residues. Preparing amorphous carbon- ate of .....	H. E. Sturcke .....	603,225	Apr. 26	2823	645	83	581
Lime from residues. Preparing amorphous carbon- ate of .....	H. E. Sturcke .....	603,226	Apr. 26	2827	646	83	582



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Lime from residues. Preparing sulfate of	H. E. Sturcke	601,006	Mar. 22	2475		82	1742
Lime sucrate. Obtaining	M. Zahn	611,164	Sept. 20	1844	425	84	1831
Limekiln	E. V. Wingard	611,402	Sept. 27	2319	535	84	1939
Lime. Kiln for acetate of	M. F. Quinn	596,827	Jan. 4	654	151	82	126
Lime. Process of and apparatus for making sulfate of	H. E. Sturcke	601,179	Mar. 22	2757	633	82	1796
Lime. Treating	H. H. Pierce	599,792	Mar. 1	202		82	1253
Line-holder	D. L. Max	615,729	Dec. 13	937	217	85	1609
Line tightening and supporting device	J. M. Phelps	614,060	Nov. 8	1446	332	85	915
Lineway	M. F. Kohinka	601,099	Mar. 22	2619	597	82	1770
Lining for dress-waists. Form-	L. E. Hacherelle	598,706	Feb. 8	1103	264	82	829
Link. Detachable	A. Mehl	606,997	July 5	642	139	84	127
Link for poles, traces, &c	A. Wood	608,970	Aug. 9	1474	348	84	958
Link-winder	J. W. Hawkins	613,677	Nov. 8	794	182 183	85	789
Linoleum. Machinery for manufacturing	M. B. Nairn	615,631	Dec. 6	765	176 177	85	1563
Linoleum-mold-charging machine	J. Ingleby	604,396	May 24	2152	483 484	83	1088
Linotype and analogous machines. Interchangeable ejector-blade for	F. J. Wich	613,831	Nov. 8	1085	247	85	843
Linotype and matrix for making same	G. E. Lincoln	604,404	May 24	2164	486	83	1090
Linotype composing-machine	T. P. Ritzema	614,762	Nov. 22	2750	628	85	1194
Linotype-machine	G. A. Bates	609,770	Aug. 30	2963	693	84	1290
Linotype-machine	T. H. Catherall	610,228	Sept. 6	161	36	84	1473
Linotype-machine	P. T. Dodge	605,701	June 14	1181	272	83	1597
Linotype-machine	L. Fisher and E. W. Reynolds	604,378	May 24	2129	478	83	1083
Linotype-machine	T. H. Keller	606,168	June 21	2097	482	83	1786
Linotype-machine	O. Mergenthaler	614,229	Nov. 15	1770	406 407 408 409	85	997
Linotype-machine	O. Mergenthaler	614,230	Nov. 15	1777	410 411 412 609	85	998
Linotype-machine	C. Muehleisen	608,067	July 26	2855	610 611 129	84	609
Linotype-machine	C. Muehleisen	610,454	Sept. 6	582	130 131 290	84	1550
Linotype-machine	J. R. Rogers	615,909	Dec. 13	1238	291	85	1667
Linotype-machine attachment	F. A. Hill and W. E. Shehan	602,904	Apr. 26	2280	520	83	477
Linotype-machine justifying mechanism	W. J. Lewis, H. Pearce, and C. Holliwell.	614,561	Nov. 22	2375	543	85	1124
Linotype-machine knife	G. A. Bates	614,602	Nov. 22	2464	562	85	1138
Linotype-machine knife attachment	W. Wynne	609,315	Aug. 16	2158	510	84	1105
Linotype-machine, line-casting machine, and machine for making type-bars, linotypes, and matrices.	T. Cahill	605,777	June 14	1305	302 303 304	83	1621
Linotype-machine line-closing attachment	C. Muehleisen	608,155	July 26	2993	642 643	84	636
Linotype-machine mold	E. Girod	609,883	Aug. 30	3161	738	84	1330
Linotype-machine molding mechanism	W. H. Lock and J. Place	614,562	Nov. 22	2377	544	85	1124
Linotype-machine slug-cutting mechanism	G. W. Mascord	607,758	July 19	2241	473	84	470
Linotype-machine trimming mechanism	F. J. Wich	614,590	Nov. 22	2437	556	85	1134
Linotype-machine trimming mechanism	F. J. Wich and C. L. Ireland	614,588	Nov. 22	2432	555	85	1133
Linotype-machine trimming mechanism	F. J. Wich and C. L. Ireland	614,589	Nov. 22	2434	555	85	1133
Linotype-machine vise-jaw	C. L. Ireland and F. J. Wich	614,550	Nov. 22	2354	539	85	1120
Linotype-machines. Metallic matrix for	C. L. Ireland	613,818	Nov. 8	1069	243	85	840
Linotype or analogous machines. Ejector-blade for	O. V. Sigurdsson	614,582	Nov. 22	2417	552 553	85	1131
Linseed-cake-forming apparatus	A. Euston	616,229	Dec. 20	1887	436	85	1812
Lip-turning machine	M. L. Keith	610,326	Sept. 6	356	76	84	1509
Liquid-concentrating apparatus	L. M. H. R. Baudoin and P. E. L. Schribaux.	611,404	Sept. 27	2326	536	84	1941
Liquid-conveyer	W. J. York	606,615	June 28	2930	679 680	83	1969
Liquid-cooler	F. Oakley	606,074	June 21	1921	441	83	1752
Liquid cooling and purifying apparatus	O. W. Swift	605,685	June 14	1151	267	83	1591
Liquid-cooling apparatus	W. L. Spoon, Jr	599,202	Feb. 15	1921	454	82	1000
Liquid-dispensing apparatus. Coin-controlled	W. P. Hackett	604,318	May 17	2008	450	83	1040
Liquid-dispensing vessel	R. D. and H. C. Beman	612,477	Oct. 18	1564	374 375	85	324
Liquid-dispensing vessel	E. Wolf	608,501	Aug. 2	588	132	84	772
Liquid-drawing apparatus	A. Ritter	608,480	Aug. 2	555	124	84	765
Liquid-elevating wheel	B. S. Birdsall	609,655	Aug. 23	2787	650	84	1242
Liquid-fuel burner	L. Serpollet	597,028	Jan. 11	996	235	82	210
Liquid-holding vessel	E. H. Belden	604,514	May 24	2381	542	83	1128
Liquid materials. Apparatus for keeping and sending	P. Lochmann	609,970	Aug. 30	3328	774 775	84	1362
Liquid-mixer	F. G. Kollenberg	612,349	Oct. 11	1347	325	85	270
Liquid pasteurizing or sterilizing apparatus	G. L. Potts	614,130	Nov. 15	1593	365	85	964
Liquid-purifying apparatus	J. J. Deery	601,052	Mar. 22	2544	579 580 581	82	1756
Liquid-purifying apparatus	D. Reynolds	614,890	Nov. 29	2989	685	85	1255
Liquid-purifying apparatus	J. E. Williamson	614,594	Nov. 22	2446	557 558	85	1135
Liquid-raising apparatus	R. W. Elliott	597,273	Jan. 11	1405	329	82	289
Liquid-raising apparatus	H. C. Sergeant	615,412	Dec. 6	371	88, 89	85	1485
Liquid supplying and distributing machine	W. L. Marsh	611,264	Sept. 27	2049	472	84	1889
Liquid-thickening machine	O. T. Joslin and H. B. Schmidt	603,085	Apr. 26	2596	590	83	536
Liquid-thickening machine	O. T. Joslin and H. B. Schmidt	603,086	Apr. 26	2597	590	83	536



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Liquid-thickening machine.....	O. T. Joslin and H. B. Schmidt.....	608,087	Apr. 26	2598	{ 590 591	{ 83	536
Liquid transporting and preserving apparatus.....	P. Lochmann.....	601,877	Apr. 5	497	102	83	93
Liquids. Apparatus for separating fibers, clay, or other material from.....	W. Curtis.....	599,957	Mar. 1	524	119	82	1312
Liquids by means of liquid carbonic acid. Receptacle for drawing off.....	A. Müller.....	613,804	Nov. 8	1046	{ 237 238	{ 85	836
Liquids containing air or other gases. Apparatus for drawing off.....	B. Danziger.....	609,986	Aug. 30	3365	{ 781 782	{ 84	1369
Liquids from granular materials. Apparatus for separating.....	R. Wilson.....	607,723	July 19	2184	461	84	459
Liquids from vessels. Apparatus for withdrawing.....	R. E. Lindner and J. H. F. Ziegenbein.....	597,292	Jan. 11	1430	336	82	294
Liquids in form of a stream. Implement for discharging.....	J. H. Bunnell and C. J. Kintner.....	599,383	Feb. 22	2274	{ 537 538	{ 82	1090
Liquids in sprays. Coin-controlled apparatus for dispensing.....	A. Abelson.....	612,654	Oct. 18	1890	447	85	386
Liquids. Means for controlling flow of.....	W. C. L. Van Schaik.....	599,462	Feb. 22	2434	572	82	1121
Liquids. Method of and apparatus for treating.....	C. Ameye.....	598,722	Feb. 8	1128	272	82	893
Liquids. Pasteurizing.....	J. H. W. Ortmann.....	603,920	May 10	1234	280	83	856
Liquids. Pneumatic distributing system for.....	F. M. Griswold.....	599,702	Mar. 1	49	11	82	1226
Liquids. Pneumatic elevating device for.....	A. Warter.....	605,212	June 7	285	66	83	1404
Liquids. Purifying.....	R. E. Milligan.....	614,617	Nov. 22	2488	568	85	1143
Liquids. Storing-package for.....	J. Tomlinson.....	603,240	Apr. 26	2852	650	83	586
Liquids. Vessel for containing and administering volatile.....	P. P. Monnet.....	604,191	May 17	1773	400	83	995
Liquids with gas. Method of and apparatus for charging.....	H. Carmichael.....	604,018	May 17	1451	325	83	933
Liquids with gas. Method of and apparatus for charging.....	J. Schwartz, Jr.....	608,397	Aug. 2	412	90	84	737
Liquor with gas or air. Apparatus for charging receptacles for.....	C. Haefner.....	615,166	Nov. 29	3523	810	85	1359
Liquors. Vacuum lifting apparatus for malt or other.....	W. A. F. McCallum.....	616,199	Dec. 20	1823	{ 421 422	{ 85	1799
Lithographic plates. Production of.....	L. Fivè.....	606,709	July 5	135	-----	84	28
Lithographic purposes. Transfer-surface and manufacture of same for.....	J. Rottach.....	614,029	Nov. 8	1400	-----	85	906
Lixiviation apparatus.....	H. B. Williams.....	608,945	Aug. 9	1429	337	84	949
Load-sustainer for weight-lifters.....	W. T. Eades and T. Matthews.....	602,312	Apr. 12	1257	{ 277 278	{ 83	254
Loader, conveyer, and unloader. Automatic.....	G. M. Wheeler.....	614,640	Nov. 22	2533	577	85	1152
Loading apparatus.....	J. Carrothers.....	609,409	Aug. 23	2315	546	84	1154
Loading appliance.....	S. B. Kenfield and C. Elvidge.....	608,142	July 26	2970	{ 637 638	{ 84	631
Loading device. Wagon.....	L. C. Wood.....	616,387	Dec. 20	2179	508	85	1871
Loading dirt, gravel, &c., onto wagons. Device for.....	T. E. Lawrence and A. R. Cooper.....	599,340	Feb. 22	2185	519	82	1072
Loading movable carriers. Apparatus for.....	A. Painter.....	613,595	Nov. 1	672	155	85	744
Loading or unloading apparatus.....	J. D. Adams.....	615,947	Dec. 13	1327	310	85	1682
Loading or unloading apparatus.....	J. McMyler and G. H. Hulett.....	601,670	Apr. 5	81	16, 17	83	17
Loading or unloading machine.....	J. L. Hamren.....	604,390	May 24	2142	481	83	1085
Loading or unloading machine.....	G. H. Hulett.....	606,720	July 5	154	33, 34	84	32
Loading or unloading machine.....	H. V. Schroder.....	598,119	Feb. 1	81	19	82	618
Lock:							
See Alarm-lock.	Hame-lock.						
Bicycle-lock.	Indicator-lock.						
Bicycle-stand lock.	Keyless lock.						
Bolt-lock.	Lamp safety-lock.						
Caisson air-lock.	Latch-lock.						
Can-lock.	Mail-bag lock.						
Car-lock.	Nut-lock.						
Car-door lock.	Nut plate-lock.						
Cell-lock.	Oar-lock.						
Combination-lock.	Padlock.						
Compound lock.	Permutation-lock.						
Cycle-lock.	Pin-lock.						
Cylinder-lock.	Pipe-lock.						
Door-lock.	Safety-lock.						
Electric lock.	Sash-lock.						
Electric combination-lock.	Seal-lock.						
Electromechanical lock.	Spring-lock.						
End-gate lock.	Telephone-lock.						
Fence-lock.	Time-lock.						
Firearm-lock.	Wagon-brake lock.						
Folding lock.	Wheel-lock.						
	Whip-lock.						
	Window-lock.						
Lock.....	E. I. Anderson and O. M. Morrill.....	604,951	May 31	3134	720	83	1292
Lock.....	I. J. Babcock.....	615,206	Nov. 29	3621	833	85	1379
Lock.....	I. J. Babcock.....	615,207	Nov. 29	3626	{ 833 834	{ 85	1380
Lock.....	A. H. Barnes.....	605,466	June 14	758	174	83	1519
Lock.....	F. H. Blake.....	597,382	Jan. 18	1599	372	82	345
Lock.....	S. Bowen.....	609,224	Aug. 16	1981	471	84	1069
Lock.....	T. Brand.....	596,473	Jan. 4	12	4	82	5
Lock.....	C. H. Brigden.....	604,576	May 24	2498	568	83	1150
Lock.....	J. M. Brown.....	597,387	Jan. 18	1608	375	82	347
Lock.....	W. B. Bust.....	604,652	May 24	2619	599	83	1174
Lock.....	J. C. Coltrim.....	610,702	Sept. 13	1004	{ 233 234	{ 84	1652
Lock.....	S. Czeiler.....	601,371	Mar. 29	3121	{ 704 705	{ 82	1893
Lock.....	D. W. Deardorff and C. N. Teetor.....	600,143	Mar. 8	1002	224	82	1430
Lock.....	J. W. Dickson.....	601,316	Mar. 29	3038	684	82	1877
Lock.....	J. J. Dillenbeck.....	597,669	Jan. 18	2087	489	82	440
Lock.....	H. Eidson and A. Lemon.....	601,337	Mar. 29	3069	692	82	1883
Lock.....	E. Fackner.....	609,422	Aug. 23	2342	552	84	1159



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Lock.....	A. L. Garlough.....	611,244	Sept. 27	2001	461	84	1880
Lock.....	I. Geiman.....	614,945	Nov. 29	3115	714	85	1282
Lock.....	N. Girrens and J. H. Weitz.....	608,592	Aug. 9	757	174	84	825
Lock.....	J. A. Gray.....	606,282	June 28	2326	538	83	1851
Lock.....	N. Harris.....	600,282	Mar. 8	1233	280	82	1474
Lock.....	R. H. Hearn.....	603,951	May 10	1279	291	83	865
Lock.....	S. Houser.....	610,813	Sept. 13	1214	280	84	1694
Lock.....	B. Jahn.....	601,145	Mar. 22	2691	618	82	1784
Lock.....	A. E. Karsner.....	601,442	Mar. 29	3246	732	82	1917
Lock.....	W. E. T. Merrill.....	599,245	Feb. 15	1993	473	82	1014
Lock.....	E. D. Miltier.....	611,790	Oct. 4	340	82	85	69
Lock.....	A. E. Ormond.....	615,886	Dec. 13	1195	279	85	1659
Lock.....	W. A. Petit and E. H. Miller.....	602,518	Apr. 19	1604	367	83	335
Lock.....	G. L. E. Pétorin.....	605,337	June 7	525	118	83	1453
Lock.....	T. L. Richardson.....	597,021	Jan. 11	984	233	82	208
Lock.....	H. B. Richardson.....	605,342	June 7	552	123	83	1458
Lock.....	W. D. Roberts.....	602,144	Apr. 12	966	211	83	194
Lock.....	J. H. Shaw.....	611,979	Oct. 4	666	162	85	130
Lock.....	G. H. Schwedler.....	608,229	Aug. 2	107	27	84	676
Lock.....	M. Signorastri.....	610,373	Sept. 6	449	98	84	1525
Lock.....	J. M. Sweeney.....	598,399	Feb. 1	553	135	82	707
Lock.....	A. Syverson.....	616,210	Dec. 20	1840	425	85	1802
Lock.....	L. Toback.....	598,211	Feb. 1	252	56	82	650
Lock.....	F. W. Tobey.....	604,672	May 24	2656	609	83	1182
Lock.....	J. R. Vedder and J. J. Tressel.....	616,751	Dec. 27	2870	665	85	2024
Lock.....	N. F. Vetere.....	609,852	Aug. 30	3110	726	84	1319
Lock.....	N. F. Vetere.....	610,932	Sept. 20	1418	325	84	1750
Lock.....	H. Vincent.....	606,883	July 5	455	93	84	90
Lock.....	H. Wise.....	599,277	Feb. 15	2045	485	82	1024
Lock.....	W. and P. Wolfgramm.....	601,111	Mar. 22	2639	602	82	1775
Lock and key.....	A. H. Wormald.....	614,157	Nov. 15	1633	375	85	972
Lock and latch.....	W. H. Taylor.....	611,155	Sept. 20	1829	421	84	1828
Lock and wrench.....	J. Johnson.....	598,203	Feb. 1	237	53	82	647
Lock attachment.....	W. S. Jenkins.....	605,720	June 14	1209	279	83	1603
Lock-bolt.....	F. W. Mix.....	608,784	Aug. 9	1092	252	84	884
Locking-bolt.....	N. R. Shults.....	597,748	Jan. 25	2220	517	82	482
Lock-case.....	C. M. Burgess.....	612,397	Oct. 18	1422	344	85	298
Lock mechanism. Coin-operated.....	F. X. Bodnar and S. L. Kreppel.....	610,578	Sept. 13	808	185	84	1610
Locking apparatus. Coin-controlled.....	F. Pope.....	614,344	Nov. 15	1989	459	85	1038
Locking-clasp.....	N. S. Emert.....	615,826	Dec. 13	1106	260	85	1642
Locking device.....	J. E. Doldt.....	608,185	Aug. 2	29	7, 8	84	660
Locking device for vehicles, &c.....	J. E. Doldt.....	608,186	Aug. 2	33	8	84	661
Locomotion. Electric.....	H. Van Hoevenbergh.....	607,302	July 12	1250	266	84	258
Locomotive.....	C. A. Couch.....	610,856	Sept. 13	1285	296	84	1709
Locomotive.....	B. J. Diplock.....	602,310	Apr. 12	1252	276	83	252
Locomotive.....	A. Robert.....	600,174	Mar. 8	1051	237	82	1439
Locomotive.....	W. M. Russell.....	604,481	May 24	2325	527	83	1118
Locomotive.....	W. M. Russell.....	609,837	Aug. 30	3089	721	84	1316
Locomotive.....	S. M. Vauclein and J. Y. McConnell.....	600,102	Mar. 1	874	201	82	1385
Locomotive air and water heating apparatus.....	T. J. Murray.....	610,074	Aug. 30	3504	812	84	1397
Locomotive and truck. Electric.....	S. M. Vauclein.....	615,594	Dec. 6	696	160	85	1549
Locomotive automatic signaling mechanism.....	M. A. Bamborough.....	613,109	Oct. 25	2675	632	85	559
Locomotive-boiler water-heater.....	P. A. Kimburg.....	616,541	Dec. 27	2476	574	85	1948
Locomotive-boilers. Device for retaining heat in.....	P. Miller.....	607,066	July 12	804	175	84	175
Locomotive-coaling device.....	W. M. Price.....	616,355	Dec. 20	2126	495	85	1860
Locomotive. Compressed-air.....	S. M. Vauclein.....	614,041	Nov. 8	1421	326	85	910
Locomotive-cylinder-boring apparatus.....	D. O. Smith.....	599,265	Feb. 15	2022	479	82	1020
Locomotive draft device.....	M. Kelly.....	608,870	Aug. 9	1284	300	84	923
Locomotive driving-wheels. Machine for truing.....	W. J. Lewis and P. H. Murphy.....	598,155	Feb. 1	138	32	82	629
Locomotive. Electric.....	W. S. G. Baker.....	610,982	Sept. 20	1515	347	84	1768
Locomotive. Electric.....	H. Bitner.....	600,134	Mar. 8	982	218	82	1426
Locomotive. Electric.....	M. E. Thomas.....	615,592	Dec. 6	693	159	85	1548
Locomotive-engine.....	A. P. Dodge.....	616,086	Dec. 20	1592	371	85	1753
Locomotive-engine.....	T. J. Murray.....	610,075	Aug. 30	3506	812	84	1397
Locomotive-engine attachment.....	C. Humphrey.....	607,747	July 19	2221	813	84	466
Locomotive-engine. Compound.....	G. S. Strong.....	606,633	June 28	2964	687	83	1975
Locomotive-engine lubricating apparatus.....	L. Kaczander.....	615,993	Dec. 13	1410	330	85	1700
Locomotive-engine seat.....	W. Sampson.....	613,479	Nov. 1	496	111	85	710
Locomotive-engines. Mechanical signal-indicator for railway.....	J. Crabtree.....	610,386	Sept. 6	476	104	84	1530
Locomotive-frame brace.....	D. A. Wightman.....	614,641	Nov. 22	2535	578	85	1152
Locomotive-furnace arch.....	A. F. Hack.....	611,169	Sept. 20	1852	427	84	1833
Locomotive. Ice.....	L. Bowles and J. W. Hansbrough.....	610,889	Sept. 20	1346	308	84	1736
Locomotive. Ice or snow.....	W. H. Harvey.....	600,672	Mar. 15	1917	436	82	1623
Locomotive journal-box.....	V. Robinson.....	599,151	Feb. 15	1843	437	82	986
Locomotive. Log-hauling.....	W. A. Fletcher.....	605,413	June 7	685	152	83	1484
Locomotive. Oil-burning.....	G. W. Prescott.....	606,237	June 28	2238	514	83	1832
Locomotive sand-box.....	C. P. Weiss.....	605,803	June 14	1370	314	83	1633
Locomotive sand-distributor.....	J. H. Jr, and F. A. Wells.....	608,091	July 26	2892	619	84	616
Locomotive stand-pipe.....	J. Henderson.....	596,590	Jan. 4	230	51	82	46



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Locomotive-tender coupling.....	W. F. Richards.....	613,313	Nov. 1	164	37	85	648
Locomotives. Apparatus for signaling on.....	F. A. Cheetham and R. Bostock.....	609,732	Aug. 23	2902	679	84	1265
Locomotives. Exhaust-steam lubricator and feed-water heater for.....	I. F. Wallace and W. L. Kellogg.....	598,687	Feb. 8	1071	258	82	823
Log-carriage steam-feed device.....	C. Carlson.....	615,475	Dec. 6	484	112 113	85	1505
Log-dumper.....	W. F. Curtis.....	606,888	July 5	461	99	84	91
Log-hauler.....	T. J. St. Louis.....	600,749	Mar. 15	2046	467	82	1649
Loom.....	R. Crompton and H. Wyman.....	600,121	Mar. 1	956	211 212 213	82	1405
Loom.....	R. Crompton and H. Wyman.....	600,488	Mar. 8	1575	363	82	1538
Loom.....	R. Crompton and H. Wyman.....	600,489	Mar. 8	1584	364 365	82	1541
Loom.....	R. Crompton and H. Wyman.....	600,490	Mar. 8	1592	365 366	82	1542
Loom.....	R. Crompton and H. Wyman.....	615,532	Dec. 6	588	134 135	85	1526
Loom.....	E. W. Davenport.....	596,854	Jan. 4	694	160	82	135
Loom.....	G. O. Draper.....	596,487	Jan. 4	36	9	82	10
Loom.....	W. F. Draper and J. H. Northrop.....	607,838	July 26	2434	517	84	525
Loom.....	H. Eastwood.....	600,216	Mar. 8	1113	253 254	82	1452
Loom.....	H. Eastwood.....	600,217	Mar. 8	1115	254	82	1452
Loom.....	A. D. Emery.....	605,603	June 14	995	229 230	83	1563
Loom.....	A. J. Gillet and G. Rutter.....	607,360	July 12	1353	289	84	279
Loom.....	G. F. Hutchins.....	606,553	June 28	2825	650	83	1949
Loom.....	C. A. Littlefield.....	600,836	Mar. 15	2183	498	82	1674
Loom.....	C. A. Littlefield.....	607,937	July 26	2615	555	84	559
Loom.....	J. T. Meats.....	609,156	Aug. 16	1849	439 440	84	1042
Loom.....	J. H. Northrop.....	600,016	Mar. 1	621	142	82	1331
Loom.....	J. W. Sherry.....	605,019	May 31	3245	746	83	1314
Loom.....	J. Walder.....	602,491	Apr. 19	1556	354	83	326
Loom.....	W. Weaver.....	598,187	Feb. 1	202	47	82	641
Loom.....	H. Wyman and C. Crompton.....	600,053	Mar. 1	778	178 179	82	1366
Loom.....	H. Wyman and R. Crompton.....	609,257	Aug. 16	2053	487	84	1084
Loom attachment.....	J. Peltier.....	615,635	Dec. 6	772	179	85	1565
Loom batten, shuttle-block, and shuttle.....	O. W. Schaum.....	607,486	July 19	1773	369	84	383
Loom. Circular.....	J. and C. Herold.....	608,676	Aug. 9	915	210 211	84	856
Loom for cross-weaving.....	I. E. Palmer.....	597,856	Jan. 25	2416	563 564	82	520
Loom for cross-weaving.....	W. H. Redding.....	603,287	May 3	73	19	83	615
Loom for weaving coir-yarn mats or other fabrics.....	E. Hodder.....	612,519	Oct. 18	1623	387 388	85	336
Loom for weaving fringes.....	J. Ferguson.....	610,391	Sept. 6	483	105	84	1531
Loom for weaving looped pile fabrics.....	G. H. Sargent, R. H. Coupe, and B. Walker.....	608,226	Aug. 2	103	26	84	675
Loom for weaving looped pile fabrics.....	G. H. Sargent, R. H. Coupe, and B. Walker.....	610,563	Sept. 13	788	179 180	84	1606
Loom for weaving tubular fabrics.....	C. T. Stetson.....	601,215	Mar. 22	2820	644 645	82	1808
Loom for weaving tufted fabrics.....	E. Tymeson.....	609,638	Aug. 23	2761	644	84	1237
Loom-fork.....	J. Catterall.....	602,893	Apr. 26	2249	512	83	472
Loom frame. Carpet.....	C. N. Newcomb.....	605,507	June 14	820	190	83	1531
Loom. Hand.....	J. M. Deen.....	597,763	Jan. 25	2249	523	82	487
Loom-harness.....	M. F. Field.....	600,669	Mar. 15	1908	434	82	1621
Loom harness-leveling device.....	H. Wyman.....	599,675	Feb. 22	2837	659	82	1201
Loom harness-motion.....	J. Hilton.....	612,645	Oct. 18	1877	444	85	383
Loom harness-operating device.....	F. Lacey.....	613,451	Nov. 1	431	98, 99	85	699
Loom-heddle.....	W. Fehr.....	599,836	Mar. 1	308	69	82	1271
Loom-heddles. Machine for making.....	G. W. and W. R. Harris.....	603,080	Apr. 26	2583	586 587 588	83	534
Loom jacquard mechanism.....	T. A. B. Carver.....	604,299	May 17	1968	441	83	1032
Loom jacquard-machine.....	H. Glorieux.....	608,037	July 26	2813	598 599	84	600
Loom jacquard-machine.....	F. Mühlinghaus.....	607,945	July 26	2628	558	84	562
Loom jacquard-machine.....	S. Sheldon.....	600,807	Mar. 15	2137	488	82	1665
Loom Lappet.....	H. Wyman.....	603,521	May 3	520	114 115	83	700
Loom-lingo.....	T. Halton.....	598,865	Feb. 8	1350	326	82	876
Loom measuring and registering device.....	A. and J. Bentley.....	613,959	Nov. 8	1291	293	85	883
Loom picker-check.....	W. Lonzo.....	605,581	June 14	950	221	83	1556
Loom picker-check.....	R. Thackery.....	597,192	Jan. 11	1279	299	82	265
Loom picker-staff.....	J. F. Benoit.....	608,542	Aug. 2	656	149	84	785
Loom picking mechanism.....	A. Ainley.....	599,676	Mar. 1	1	1	82	1217
Loom picking mechanism.....	G. Goodline and J. A. Clark.....	604,897	May 31	3045	699	83	1275
Loom protector stop mechanism.....	O. A. Sawyer and M. M. Lahue.....	603,860	May 10	1130	254	83	836
Loom-reed.....	E. Adamson.....	610,011	Aug. 30	3404	788	84	1377
Loom-reeds. Tool for fixing.....	L. Autio.....	600,504	Mar. 15	1632	372	82	1569
Loom salvage-motion.....	W. E. Cutler.....	607,985	July 26	2698	575 576	84	575
Loom shedding mechanism.....	G. F. Hutchins.....	596,879	Jan. 4	737	173	82	144
Loom shedding mechanism.....	G. F. Hutchins.....	605,825	June 14	1414	322 323	83	1641
Loom shedding mechanism.....	H. Wyman and W. H. Redding.....	603,308	May 3	108	26	83	622
Loom shedding-motion.....	G. Oldham.....	603,282	May 3	66	17	83	614
Loom-shuttle.....	P. Ashby.....	599,051	Feb. 15	1678	397	82	957
Loom-shuttle.....	A. W. Beardsell.....	596,840	Jan. 4	673	156	82	131
Loom-shuttle.....	W. C. Collyer.....	613,559	Nov. 1	612	141	85	733
Loom-shuttle.....	W. F. Draper.....	616,297	Dec. 20	2016	469	85	1839
Loom-shuttle.....	S. M. Hamblin.....	603,141	Apr. 26	2694	611	83	557



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Loom-shuttle	S. M. Hamblin	603,603	May 3	656	146	83	729
Loom-shuttle	J. H. Morin	615,567	Dec. 6	651	149	85	1539
Loom-shuttle	L. Sturges	604,804	May 31	2890	661	83	1245
Loom shuttle-box-operating mechanism	J. T. Meats and E. L. Sargent	596,898	Jan. 4	761	180 181	82	149
Loom shuttle-box-operating mechanism	G. Schwabe	604,669	May 24	2650	607 608	83	1180
Loom shuttle-box-operating mechanism	H. Wyman	603,522	May 3	524	116	83	701
Loom-shuttle-changing mechanism	R. Crompton and H. Wyman	614,369	Nov. 15	2033	469 470	85	1047
Loom-shuttle-changing mechanism	E. Herzig	616,234	Dec. 20	1905	440 441	85	1815
Loom shuttle-changing mechanism	C. A. Littlefield	601,836	Apr. 5	400	84, 85	83	75
Loom-shuttle filling-carrier or cop-skewer	C. A. Littlefield	608,988	Aug. 9	1508	357	84	965
Loom-shuttle. Self-threading	M. H. Leveille	605,690	June 14	1161	268	83	1594
Loom-shuttle. Self-threading	J. H. Nason	599,860	Mar. 1	346	79	82	1279
Loom-shuttle. Self-threading	J. H. Nason	599,861	Mar. 1	347	79	82	1279
Loom-shuttle. Self-threading	J. H. Northrop	598,480	Feb. 1	698	170	82	735
Loom shuttle stop-motion	A. D. Emery	605,602	June 14	993	228 229	83	1562
Loom-shuttle-supporting mechanism	M. Saile	607,087	July 12	859	185 186	84	185
Loom slack-alarm and stop-motion	J. and J. Harriman	605,199	June 7	254	59, 60	83	1399
Loom-shuttle tension device	F. David	613,974	Nov. 8	1315	299	85	888
Loom-shuttle tension device	J. J. Donovan	600,520	Mar. 15	1658	378	82	1575
Loom stop-indicator	W. G. Eaton	616,055	Dec. 13	1524	356	85	1723
Loom. Swivel	G. F. Hutchins	614,390	Nov. 15	2073	477 478 479	85	1055
Loom swivel batten and shuttle	R. Whitley	608,816	Aug. 9	1188	278	84	904
Loom take-up mechanism	G. Goodline and H. Wyman	609,272	Aug. 16	2075	493	84	1088
Loom take-up mechanism	J. H. Northrop	610,636	Sept. 13	906	208	84	1631
Loom take-up mechanism	J. H. Northrop	616,064	Dec. 13	1541	360	85	1726
Loom-temple	P. Duffy	615,536	Dec. 6	599	137	85	1528
Loom-temple	G. F. Hutchins	607,377	July 12	1395	297 298	84	286
Loom-temple	L. Painchaud	598,808	Feb. 8	1253	303	82	857
Loom-temple	R. P. Pearson	598,810	Feb. 8	1256	304	82	858
Loom thread-cutting temple	J. H. Northrop	604,632	May 24	2585	590	83	1167
Loom warp stop-motion	W. E. Allen	608,971	Aug. 9	1475	349	84	959
Loom warp stop-motion	C. Crompton	599,832	Mar. 1	301	68	82	1269
Loom warp stop-motion	A. D. Emery	605,600	June 14	985	227	83	1561
Loom warp stop-motion	C. A. Littlefield	600,008	Mar. 1	599	138	82	1326
Loom warp stop-motion	J. H. Northrop	608,558	Aug. 2	689	156	84	792
Loom warp stop-motion mechanism	J. H. Northrop	607,947	July 26	2631	559	84	562
Loom warp stop-motion. Narrow-ware	J. Harriman	605,479	June 14	777	179	83	1522
Loom weft stop-motion	A. D. Emery	605,601	June 14	990	227 228	83	1562
Looms. Electric stop-motion for	A. Stephens	607,714	July 19	2173	457	84	457
Looms. Fringe-making attachment for hammock	I. E. Palmer	605,971	June 21	1723	395 396	83	1717
Looms. Knife-sled motion for plush or velvet	J. Killars	610,711	Sept. 13	1027	237	84	1657
Looms. Lay or batten for	I. Wollenberg	600,996	Mar. 22	2458	559	82	1739
Looms. Salvage-weaving device for	J. K. Schumacher	602,366	Apr. 12	1343	299	83	271
Looping-machine	L. Wimmer	614,069	Nov. 8	1469	337	85	920
Loops and sewing same to fabrics. Machine for forming	J. Schwarz	598,682	Feb. 8	1059	255 256	82	820
Lounge. Box	R. R. Thompson	602,487	Apr. 19	1549	352 353	83	324
Low-water-alarm and safety valve	W. L. Bone	606,832	July 5	371	79	84	74
Lowering device	J. Kremser	602,457	Apr. 19	1503	343	83	315
Lubricating and cooling apparatus. Journal	L. C. Witkowski	612,653	Oct. 18	1886	447	85	385
Lubricating apparatus	A. Cruz	602,155	Apr. 12	994	217	83	200
Lubricating device	C. H. C. Koch	602,854	Apr. 26	2196	498	83	462
Lubricating device	R. B. Webendorfer	612,075	Oct. 11	864	210	85	179
Lubricating device. Eccentric	F. O. Ball	611,854	Oct. 4	460	111	85	92
Lubricating device. Eccentric	F. O. Ball	611,855	Oct. 4	461	111	85	93
Lubricating device for journal-boxes	A. F. Warren	612,447	Oct. 18	1510	363	85	315
Lubricating device. Vehicle	W. Möller	614,405	Nov. 15	2103	483 484	85	1060
Lubricating-pump	J. F. and B. T. McCanna	604,072	May 17	1553	348	83	951
Lubricating shaft-bearings. Means for	O. F. Cook	603,260	May 3	29	7	83	606
Lubrication-cup. Compression	W. K. Richart	606,897	July 5	474	102	84	94
Lubricator:							
See Automatic lubricator.	Hydraulic lubricator.						
tor.	Journal-box lubricator.						
Axle-lubricator.	Pulley-lubricator.						
Cup-lubricator.	Sight-feed lubricator.						
Elevator-guide lubricator.							
Lubricator	T. Blom	610,222	Sept. 6	150	34	84	1471
Lubricator	P. J. Donohue	597,371	Jan. 11	1578	367	82	325
Lubricator	C. F. Engman	596,863	Jan. 4	716	166	82	140
Lubricator	C. Geier	597,577	Jan. 18	1932	450	82	411
Lubricator	E. O. Goss	603,686	May 10	807	178	83	774
Lubricator	J. W. Graham	597,903	Jan. 25	2489	581	82	532
Lubricator	J. Greenwood	611,475	Sept. 27	2459	566	84	1965
Lubricator	O. Hoffman and J. Curran	599,839	Mar. 1	312	70	82	1271
Lubricator	G. Huber	616,670	Dec. 27	2725	633	85	1995
Lubricator	W. Hunt	611,126	Sept. 20	1776	407	84	1818
Lubricator	E. M. King and J. Kaslinke	612,736	Oct. 18	2027	481	85	412
Lubricator	J. F. Lewis	609,444	Aug. 23	2374	560	84	1165
Lubricator	F. W. Marvin and G. B. Essex	614,816	Nov. 22	2842	654	85	1212
Lubricator	E. McCoy	610,634	Sept. 13	901	207	84	1631
Lubricator	E. McCoy	611,759	Oct. 4	287	68, 69	85	59
Lubricator	G. McNeil and T. J. Rogers	606,294	June 28	2346	543	83	1855
Lubricator	W. Michalk	604,409	May 24	2181	488	83	1093



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				Spec.	Dr'g.	Vol.	Page.
Lubricator	J. Powell	604,265	May 17	1908	427	83	1020
Lubricator	W. F. Scheffer	598,013	Jan. 25	2686	627	82	571
Lubricator	G. Seyffarth	603,997	May 10	1365	310 311	83	882
Lubricator	J. H. Siegrist, Jr	614,902	Nov. 29	3008	690	85	1259
Lubricator	A. Stark	616,270	Dec. 20	1970	458	85	1829
Lubricator	W. H. and R. Thompson	604,132	May 17	1662	373 374	83	972
Lubricator	P. Van Bogaert	612,512	Oct. 18	1613	385	85	334
Lubricator	W. F. Van Guysling	597,698	Jan. 18	2139	500	82	449
Lubricator	A. M. Way	597,157	Jan. 11	1227	288	82	255
Lubricator-filler. Automatic	N. Zogg	603,393	May 3	258	57	83	649
Lubricators. Feed-indicator for	D. L. Beach	601,204	Mar. 22	2801	640	82	1804
Luggage-carrier	G. B. Adams	613,226	Nov. 1	1	1	85	617
Luggage-carrier	C. S. Coolidge	599,120	Feb. 15	1788	426	82	976
Luggage-carrier	A. W. Harrison	611,216	Sept. 20	1942	448	84	1849
Luggage-carrier	P. Hill	613,038	Oct. 25	2561	608	85	536
Luggage-carrier	A. H. Jenks	597,318	Jan. 11	1471	345	82	303
Luggage-carrier	C. S. Sheppard	600,238	Mar. 8	1152	262	82	1460
Luggage-carrier	D. M. J. Wall	610,251	Sept. 6	199	44	84	1480
Luggage-carrying apparatus	N. Lernet	610,654	Sept. 13	931	215 216	84	1637
Lumber-drier	H. J. Morton	597,543	Jan. 18	1874	434	82	398
Lumber-edger	H. M. Johnston and G. W. Mason	604,661	May 24	2631	603	83	1176
Lumber-piler	P. Peterson	609,120	Aug. 16	1792	427	84	1031
Lumber-piling lift	A. Stendahl	603,835	May 10	1082	241	83	826
Lumber-handling device	J. A. McGarry	601,043	Mar. 22	2531	575	82	1753
Lumber-stacker	W. R. Carroll	607,214	July 12	1079	233	84	224
Lumber-stacking apparatus	W. Graham	604,145	May 17	1682	378 379	83	976
Lumber-stacking apparatus	W. Graham	604,146	May 17	1686	379 380	83	977
Lumber-stacking apparatus	W. Graham	604,169	May 17	1723	388 389	83	984
Lumber-storage plant	V. L. Emerson	602,395	Apr. 12	1394	312 313	83	280
Luminous or similar effects. Apparatus for producing	D. M. Moore	604,686	May 24	2678	613	83	1186
Lunch-box	E. F. Minter	598,801	Feb. 8	1242	300 301	82	855
Lunch-box	E. E. Swift	607,294	July 12	1241	264	84	256
Lung-tester. Dummy	E. and U. S. De Moulin	616,085	Dec. 20	1590	370 371	85	1752
Machine holder or locking device	C. F. Neubert	597,526	Jan. 18	1850	429	82	394
Machine-shop plant	P. W. Gates	597,828	Jan. 25	2368	553	82	510
Machinist's clamp	L. W. Stockbridge and F. C. Rollins	615,113	Nov. 29	3426	786	85	1339
Magnet-brake. Safety	J. D. Ihlder	596,514	Jan. 4	94	21	82	20
Magnet for electric machines. Field-	S. H. Short	607,609	July 19	1990	413	84	422
Magnet for electric machines. Field-	S. H. Short	616,265	Dec. 20	1956	455	85	1825
Magnets of dynamo-machines. Arrangement for exciting	M. Déri	614,373	Nov. 15	2043	471	85	1048
Magnetic closer	J. N. Thomas	599,881	Mar. 1	392	87, 88	82	1287
Magnetic separator	A. Monell	610,767	Sept. 13	1127	258 259	84	1676
Magnetic switch	C. E. Scribner	616,148	Dec. 20	1727	400	85	1778
Magnifying-glass	E. Bausch	597,758	Jan. 25	2242	521	82	486
Mail-bag	F. A. Brown	602,723	Apr. 19	1962	446	83	402
Mail-bag catcher and crane	S. R. Patten	616,556	Dec. 27	2505	579	85	1954
Mail-bag catcher and deliverer	G. E. Perkins	614,756	Nov. 22	2740	625 626	85	1192
Mail-bag catching, receiving, and delivering apparatus	N. Tingley	610,872	Sept. 13	1315	302	84	1715
Mail-bag crane	W. L. Hatfield	604,115	May 17	1634	367	83	967
Mail-bag-crane bag-holder	J. W. Eardly	609,419	Aug. 23	2335	551	84	1158
Mail-bag-delivery mechanism	P. Dwyer, E. S. Anderson, and J. Mellina.	613,563	Nov. 1	619	143 144	85	734
Mail-bag fastener	J. Howells	607,375	July 12	1392	296	84	286
Mail-bag fastener	J. A. Schreiner	612,143	Oct. 11	975	236	85	200
Mail-bag fastener	C. A. Strasburg	605,588	June 14	963	223	83	1558
Mail-bag holder	J. Swihart	611,801	Oct. 4	359	87	85	72
Mail-bag lock	J. B. May	602,764	Apr. 19	2021	458	83	413
Mail-box	J. Avery	605,837	June 21	1455	333	83	1667
Mail-box	M. F. Cheevers	608,420	Aug. 2	458	102	84	747
Mail-box	E. E. Foss	597,179	Jan. 11	1259	295	82	261
Mail-box	F. D. Grapengeter	611,683	Oct. 4	159	39	85	34
Mail-box	R. H. Hintze	613,275	Nov. 1	93	21	85	634
Mail-box	M. S. Moreno and C. J. Curry	614,058	Nov. 8	1443	331 332	85	914
Mail-box. Alarm	C. R. Furey	611,573	Sept. 27	2639	609	84	2000
Mail-box and door-bell. Combined	W. McMillan	613,016	Oct. 25	2525	601	85	529
Mail-box collection and delivery	J. E. Crisp	613,560	Nov. 1	613	142	85	733
Mail-carrying apparatus	R. L. Anderson	598,171	Feb. 1	166	39, 40	82	634
Mail-catch-pouch ring attachment	J. Wright	613,749	Nov. 8	950	217	85	818
Mail-catcher	J. E. White	603,749	May 10	913	202	83	794
Mail-collection system	D. A. Gray	596,993	Jan. 11	941	223	82	200
Mail-distributing device	J. Ungaro	611,803	Oct. 4	361	87	85	73
Mail-distributing indicator	P. Brandell	610,621	Sept. 13	880	202	84	1626
Mail-marking machine	C. P. Oudin	604,689	May 24	2683	614 615	83	1186
Mail-marking machine	H. E. Waite	599,463	Feb. 22	2435	572 573	82	1121
Mail-marking machine	H. E. Waite	599,464	Feb. 22	2440	573 574	82	1122
Mail-marking machine	H. E. Waite	599,483	Feb. 22	2475	582	82	1129
Mail or parcel elevator	J. A. Cabot	599,550	Feb. 22	2592	608	82	1151
Mail-pouch	J. Herrin	597,819	Jan. 25	2354	550	82	507



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Mail-pouch	H. B. Huff	615,180	Nov. 29	3546	815	85	1363
Mail-pouch	S. C. Reese	610,769	Sept. 13	1130	260	84	1677
Mail-pouch-delivery device	B. Chamberlain. (Reissue)	11,649	Feb. 8	1388	334	82	884
Mail-pouch fastener	T. Doyle	598,139	Feb. 1	110	27	82	623
Mail-pouch fastener	C. L. V. Mundhenk and W. I. Christian.	615,876	Dec. 13	1176	275	85	1655
Mail-pouches from moving trains. Device for receiving and delivering	J. Bale and A. E. Lapham	611,094	Sept. 20	1715	394	84	1807
Mail-sack fastening	A. Braley	600,399	Mar. 8	1414	324	82	1509
Mailing-box	C. W. Lovell	597,726	Jan. 25	2185	510	82	475
Mailing-package	W. E. Winter	616,045	Dec. 13	1506	352	85	1720
Mailing-signal and door-bell. Combined	C. F. Nelson	602,997	Apr. 26	2441	557	83	508
Mailing-tube, can, or like article	E. Sands	600,746	Mar. 15	2042	466	82	1648
Mailing-tubes, cans, &c. Manufacture of	E. Sands	600,745	Mar. 15	2041	466	82	1648
Make-ready press	F. W. Baum	609,650	Aug. 23	2780	648	84	1241
Mallet	G. A. Weld	608,811	Aug. 9	1174	274	84	901
Malt-drying apparatus	W. H. Prinz	601,044	Mar. 22	2533	575	82	1753
Malt-drying apparatus	W. H. Prinz	605,012	May 31	3231	743	83	1311
Malt germinating and drying drum	H. Raetzell	614,499	Nov. 22	2285	523	85	1107
Malt-kiln	J. F. Dornfeld	610,580	Sept. 13	812	186	84	1611
Malt-stirrer	J. A. Saladin	606,586	June 28	2880	663	83	1960
Malting apparatus. Grain	J. W. Hassmann	612,386	Oct. 11	1402	339	85	281
Malting-drum. Pneumatic	J. A. Tilden	602,528	Apr. 19	1619	370	83	337
Malting apparatus. Pneumatic	G. J. Meyer	608,338	Aug. 2	313	69	84	718
Mandolin	G. W. Bostwick, V. Kraske, and R. Lorang.	597,352	Jan. 11	1540	359	82	316
Mandolin	O. H. Gibson	598,245	Feb. 1	304	70	82	660
Manger-guard	W. S. Huston	611,999	Oct. 4	709	171	85	139
Manhole and cover therefor	H. L. Wilson	606,949	July 5	544	120	84	108
Manhole-cover	T. P. Greger	606,206	June 28	2172	498	83	1818
Manhole-cover	A. Hewens	601,040	Mar. 22	2526	574	82	1752
Manhole-frame	E. S. Dorr	599,441	Feb. 22	2397	563	82	1115
Manhole-frame	H. W. Sanborn	599,457	Feb. 22	2422	570	82	1119
Manhole head and cover	E. Maher	611,640	Oct. 4	87	21	85	19
Manicuring device and cigar-cutter. Combined	G. A. Kiefaber	612,990	Oct. 25	2487	592	85	522
Manifolding-register	F. M. Turck	608,534	Aug. 2	642	145	84	782
Manure-distributor	T. H. Motley	605,002	May 31	3216	740	83	1308
Manure gatherer and loader	J. Peterson	610,609	Sept. 13	862	197	84	1622
Manure-scattering machine	P. Ehmke	611,960	Oct. 4	631	153	85	123
Manure-spreader	J. S. Kemp	616,621	Dec. 27	2612	606	85	1972
Manuscript holder and spacer	A. N. Woodruff	601,112	Mar. 22	2641	603	82	1775
Map-holder	H. C. McCafferty	605,969	June 21	1720	395	83	1717
Marble or other stone. Machine for cutting	M. J. Hawley and J. B. Clot	610,810	Sept. 13	1208	278	84	1693
Marble. Polishing	J. M. Mueller, Jr	601,668	Apr. 5	79	16	83	16
Marble slabs. Device for securing fixtures to	J. H. Lanahan	597,503	Jan. 18	1816	420	82	387
Marine boiler	W. T. Sylvén	606,847	July 5	400	85	84	80
Marker	E. P. Thomas	598,666	Feb. 8	1029	248	82	815
Marker. Corn-row	W. M. Douglas	607,021	July 12	692	150	84	157
Marker. Disk	L. Yielky	616,279	Dec. 20	1980	461	85	1831
Marker for graves, lands, &c	J. A. Coffey	605,395	June 7	645	144	83	1475
Marker for seed or corn planters	C. E. Smith	607,887	July 26	2525	536	84	542
Marker. Land-	A. R. Moore	600,590	Mar. 15	1779	407	82	1597
Marker. Land-	J. H. Winter	602,119	Apr. 12	915	199	83	185
Marker's record for laundrymen, &c	C. R. Judge	598,520	Feb. 8	780	187	82	767
Marking attachment	S. W. Lane	607,248	July 12	1160	248	84	239
Marking-cord	G. K. Spitzenberg	603,157	Apr. 26	2714	617	83	561
Marshmallow-runner	R. W. Douglas	597,637	Jan. 18	2028	473	82	429
Marshmallow-runner	R. W. Douglas	602,899	Apr. 26	2265	516	83	474
Mashing apparatus	O. Selg	598,120	Feb. 1	84	20	82	618
Mask. Inhaling	H. W. Graham	601,074	Mar. 22	2582	589	82	1763
Massage appliance. Electric	F. J. S. Lau	602,950	Apr. 26	2369	540	83	495
Massage. Hand appliance for	A. Figge	598,773	Feb. 8	1206	292	82	848
Massage-machine	W. W. M. Hickey	613,859	Nov. 8	1132	260	85	852
Mat:							
See Door-mat.							
Oil-press mat.							
Match and cigar box	G. Hochstrasser	596,970	Jan. 4	898	211	82	175
Match-box	J. H. Benjamin	607,537	July 19	1858	386	84	399
Match-box	E. I. B. Carrothers	610,227	Sept. 6	160	36	84	1473
Match-box	R. M. Dixon	605,276	June 7	419	95	83	1432
Match-box	G. W. Housel	606,839	July 5	387	82	84	77
Match-box	E. D. Kellerman	613,575	Nov. 1	640	148	85	737
Match-box	J. A. Montgomery	614,740	Nov. 22	2714	618	85	1187
Match-box and cigar or pipe lighter. Combined	C. Wilson	607,722	July 19	2182	460	84	459
Match-box. Automatic	W. J. Foss	609,017	Aug. 16	1583	377	84	994
Match-box. Bicycle	H. Frank	597,279	Jan. 11	1414	332	82	290
Match-box, cigar-cutter, &c. Combined	A. W. Le Bron	610,142	Aug. 30	3606	838	84	1419
Match-box-filling machine	A. Lagerman	604,565	May 24	2476	562	83	1146
Match box or safe	B. W. Karst	602,333	Apr. 12	1288	285	83	260
Match box, stand, or receptacle having automatic striking action.	R. L. and E. Dunford and G. Emens.	615,611	Dec. 6	728	168	85	1556
Match-box. Wall	S. F. Frankey	598,884	Feb. 8	1379	332	82	883
Match-bunching machine	J. C. Weikey	612,218	Oct. 11	1105	265	85	226
Match-card-making machine	S. W. Bates	605,593	June 14	972	225	83	1559
Match-case and cigar-cutter	M. G. Pond	609,996	Aug. 30	3379	785	84	1372
Match composition	H. Sévène and E. D. Cahen	614,350	Nov. 15	2006		85	1042



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Match-holder .....	W. Bernard .....	609,404	Aug. 23	2310	545	84	1153
Match-igniting device .....	C. F. and G. A. Axelsson and R. W. Gunn .....	602,593	Apr. 19	1726	393	83	356
Match-igniting device .....	T. F. Williams .....	597,448	Jan. 18	1729	400	82	369
Match-machine .....	W. E. Cook .....	611,562	Sept. 27	2615	603	84	1995
Match-machine .....	W. E. Cook .....	613,496	Nov. 1	516	116	85	714
Match-machine .....	B. T. Steber .....	611,524	Sept. 27	2539	586	84	1981
Match-machine .....	B. T. Steber .....	611,525	Sept. 27	2542	587	84	1982
Match-machine .....	B. T. Steber .....	611,526	Sept. 27	2543	587	84	1982
Match-making .....	E. Lagneau .....	607,644	July 19	2057	429	84	436
Match-making machine .....	J. Boulard .....	614,925	Nov. 29	3051	699	85	1268
Match-making machine .....	H. P. Feister .....	603,481	May 3	432	700	83	684
Match-making machine .....	A. Kelley .....	606,994	July 5	621	701	84	123
Match-making machine .....	P. G. Russell .....	598,645	Feb. 8	988	702	82	807
Match-making machine .....	P. G. Russell .....	612,060	Oct. 11	834	239	85	173
Match-making machine .....	J. P. Wright .....	603,459	May 3	391	204	83	676
Match-receptacle and igniting device .....	C. Fredman .....	596,492	Jan. 4	47	205	82	12
Match-safe .....	H. P. Barber .....	612,960	Oct. 25	2439	135	85	512
Match-safe .....	G. O. Bristow .....	612,699	Oct. 18	1960	136	85	400
Match-safe .....	E. P. Connet and F. A. Green .....	605,856	June 21	1502	137	83	1675
Match-safe .....	W. H. Hooker .....	608,603	Aug. 9	779	138	84	829
Match-safe .....	V. Humann .....	614,428	Nov. 15	2155	239	85	1069
Match-safe .....	B. C. Jolley .....	598,939	Feb. 15	1482	240	82	917
Match-safe .....	D. Knowlton .....	602,624	Apr. 19	1787	241	83	368
Match-safe .....	S. Maxfield .....	599,398	Feb. 22	2310	242	82	1098
Match-safe .....	A. T. McDowell .....	612,262	Oct. 11	1193	243	85	242
Match-safe .....	J. Villard and J. P. Henderson .....	603,301	May 3	94	244	83	619
Match-safe and advertising device. Combined .....	G. W. Turner and J. A. Wiles .....	612,936	Oct. 25	2402	245	85	504
Match-safe and cigar-clipper. Combined .....	T. O. Hegg .....	612,664	Oct. 18	1909	246	85	389
Match-safe and cigar-cutter. Combined .....	D. C. Moss .....	616,247	Dec. 20	1927	247	85	1820
Match-safe. Single-delivery .....	S. H. Shipman .....	613,327	Nov. 1	188	248	85	653
Match-safe. Single-delivery .....	J. Vail .....	606,750	July 5	217	249	84	45
Match-safe. Single-delivery .....	J. H. Watrous .....	613,743	Nov. 8	936	250	85	815
Match-splint-bundling machine .....	C. J. Donnelly .....	615,610	Dec. 6	724	251	85	1555
Match-splint carrier .....	J. P. Wright .....	612,084	Oct. 11	877	252	85	182
Match-splint cutting and assembling machine .....	J. F. Kay and D. Hutchinson .....	601,893	Apr. 5	520	253	83	97
Match-splint-cutting machine .....	E. M. Lockwood .....	600,085	Mar. 1	836	254	82	1378
Match-splint-feeding mechanism .....	J. P. Wright .....	614,314	Nov. 15	1920	255	85	1025
Matches. Composition for making .....	A. Tachauer and L. Braly .....	603,666	May 10	777	256	83	768
Matches. Manufacture of .....	E. Lagneau .....	610,357	Sept. 6	413	257	84	1519
Matches. Manufacture of wooden .....	F. A. Debeize and L. F. Chasseigne .....	606,648	July 5	21	258	84	6
Matches. Receptacle for good and burned .....	E. S. Bach .....	610,883	Sept. 20	1339	259	84	1735
Matchers. Device for setting up .....	C. Schoen .....	614,136	Nov. 15	1600	260	85	966
Matrices. Method of and means for making .....	C. Sears .....	616,562	Dec. 27	2512	261	85	1955
Matrices. Renewing .....	B. Ring and B. W. Stickney .....	604,123	May 17	1646	262	83	969
Matrix-drying apparatus .....	B. F. Jackson .....	603,879	May 10	1163	263	83	843
Matrix-sheets. Manufacturing .....	H. Schimansky .....	615,577	Dec. 6	673	264	85	1544
Mattress .....	O. E. Hall .....	604,043	May 17	1491	265	83	940
Mattress, bed, and seat. Folding .....	J. G. Richardson and F. H. Young .....	611,647	Oct. 4	98	266	85	22
Mattress. Collapsible pneumatic .....	R. B. Meany .....	598,054	Jan. 25	2749	267	82	584
Mattress-filling machine .....	G. F. Martin .....	599,299	Feb. 15	2088	268	82	1032
Mattress-frame .....	J. P. Lein .....	613,378	Nov. 1	286	269	85	673
Mattress-frame .....	J. P. Lein .....	615,073	Nov. 29	3360	270	85	1327
Mattress. Pneumatic .....	J. B. Andres .....	611,585	Sept. 27	2665	271	84	2004
Mattress. Sectional .....	W. F. Ade, Jr. .....	603,718	May 10	859	272	83	784
Mattress. Spring- .....	T. B. Laycock and J. H. Lytle .....	600,919	Mar. 22	2326	273	82	1714
Mattress. Spring- .....	F. J. Maier .....	613,843	Nov. 8	1102	274	85	846
Mattress-tufting machine .....	E. N. Stephenson .....	612,284	Oct. 11	1228	275	85	248
Mattress-stuffing machine .....	R. R. Thompson .....	611,294	Sept. 27	2108	276	84	1901
Mattress-stuffing machine .....	W. Tucker .....	597,446	Jan. 18	1721	277	82	368
Mattress. Ventilated .....	P. Forsberg .....	597,058	Jan. 11	1055	278	82	222
Mattress. Wire spring- .....	J. S. Knechtel and R. G. Vincent .....	614,010	Nov. 8	1377	279	85	901
Mattresses, &c. Filling material for .....	G. W. Yearicks .....	610,936	Sept. 20	1422	280	84	1751
Maximum meter .....	A. H. Hoyt .....	601,256	Mar. 29	2906	281	82	1852
Meal and flour bin .....	T. Perrin .....	609,903	Aug. 30	3198	282	84	1337
Measure and funnel. Combined .....	G. A. Keene .....	606,927	July 5	516	283	84	102
Measure. Cloth- .....	R. B. Luse, C. E. Donlin, and P. H. Stewart .....	615,290	Dec. 6	125	284	85	1437
Measure. Grain- .....	F. Yeagley .....	603,309	May 3	111	285	83	623
Measure indicator. Liquid- .....	B. Lenzen .....	611,755	Oct. 4	282	286	85	58
Measure. Lens- .....	J. T. Brayton .....	611,350	Sept. 27	2208	287	84	1919
Measurer and register. Grain .....	S. Stewart and J. F. Swisher .....	601,739	Apr. 5	227	288	83	44
Measurer. Automatic grain- .....	M. Hanson .....	601,140	Mar. 22	2684	289	82	1783
Measurer. Dose- .....	G. H. Woodward .....	599,674	Feb. 22	2836	290	82	1201
Measuring and cutting device. Cloth .....	W. B. Hood .....	601,964	Apr. 5	665	291	83	126
Measuring and delivering device. Liquid .....	G. F. Barron .....	615,238	Dec. 6	12	292	85	1413



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Measuring and filling apparatus. Automatic liquid.	W. J. Towle .....	598,035	Jan. 25	2719	635	82	577
Measuring and marking length on fabrics. Apparatus for	G. Newsum .....	615,406	Dec. 6	360	86	85	1482
Measuring apparatus for creameries	C. E. Jenks .....	615,712	Dec. 13	903	210	85	1603
Measuring-cabinet	G. W. Haddox .....	616,316	Dec. 20	2044	475 476	85	1844
Measuring device	H. Gottschalk and T. Hemeke .....	601,465	Mar. 29	3283	742	82	1924
Measuring device	H. Kienast .....	613,684	Nov. 8	804	185	85	790
Measuring device	C. McGlade .....	606,977	July 5	592	130	84	118
Measuring device. Automatic liquid.	D. S. Coy .....	599,688	Mar. 1	19	5	82	1220
Measuring device. Cloth-	C. Pulcher .....	601,277	Mar. 29	2966	670	82	1864
Measuring device. Distance-	J. W. Farrand .....	613,566	Nov. 1	625	144	85	735
Measuring device. Liquid-	G. J. Habermann .....	599,704	Mar. 1	53	12	82	1226
Measuring device. Rope-	T. and W. H. Coldwell .....	612,484	Oct. 18	1575	376 377	85	327
Measuring diameters. Instrument for	G. Vine .....	601,721	Apr. 5	192	37, 38	83	38
Measuring instrument. Alternating-current-	H. P. Davis and F. Conrad .....	611,466	Sept. 27	2442	562 563	84	1962
Measuring instrument. Distance-	J. T. Brown .....	601,493	Mar. 29	3330	753	82	1934
Measuring instrument. Distance-	A. G. B. Scuri .....	605,830	June 14	1420	324	83	1642
Measuring instrument. Electric-current-	E. C. Eldredge .....	613,899	Nov. 8	1200	274	85	865
Measuring instrument. Electrical	G. K. Elphinstone and A. C. Heap .....	607,921	July 26	2587	549	84	554
Measuring instrument. Electrical	A. H. Hoyt .....	600,265	Mar. 8	1208	274	82	1469
Measuring instrument. Electrical	H. W. Sullivan .....	602,527	Apr. 19	1615	369	83	337
Measuring instrument. Electrical	E. Weston .....	600,981	Mar. 22	2426	554	82	1733
Measuring instrument. Electrical	E. Weston .....	600,982	Mar. 22	2428	555	82	1733
Measuring instrument. Electrical	E. Weston .....	600,983	Mar. 22	2431	555	82	1734
Measuring instrument. Electrical	E. Weston .....	611,732	Oct. 4	233	57	85	48
Measuring instrument. Electrostatic	J. F. Kelly .....	608,132	July 26	2953	634	84	628
Measuring instrument. Electrostatic	E. Thomson .....	610,928	Sept. 20	1405	321 322	84	1748
Measuring instrument recording device.	A. H. Hoyt .....	616,669	Dec. 27	2725	632	85	1994
Measuring instruments. Hinge connection for electrical	A. H. Hoyt .....	603,042	Apr. 26	2509	569	83	521
Measuring instruments. Index needle or hand for electrical	E. Weston .....	611,723	Oct. 4	238	57	85	48
Measuring machine. Cloth-	W. E. Carpenter .....	597,836	Jan. 25	2386	556	82	514
Measuring machine. Cloth-	H. E. Pitts .....	597,824	Jan. 25	2361	552	82	508
Measuring machine. Cloth-	J. E. Windle .....	608,818	Aug. 9	1192	278	84	905
Measuring machine. Cloth-	T. R. Woodard .....	600,130	Mar. 1	974	216	82	1408
Measuring mechanism for box or can filling machines.	P. L. Hoyte and W. T. Wood .....	602,330	Apr. 12	1283	284	83	259
Measuring machine. Leather-	A. E. Ayer .....	608,538	Aug. 2	649	146 147	84	784
Measuring machine. Rope-	Ely y Seale Hubbard .....	610,846	Sept. 13	1266	292	84	1705
Measuring receptacle. Self-	W. Forrest .....	598,503	Feb. 8	744	180	82	761
Measuring-tank. Automatic	C. H. Gilkerson and D. Glasby .....	609,096	Aug. 16	1724	410	84	1021
Measuring tank. Self-	A. W. Krause .....	597,116	Jan. 11	1161	273	82	242
Measuring temperatures. Apparatus for electrically	H. L. Callendar .....	598,905	Feb. 15	1417	341	82	905
Measuring variable angles between rotating bodies. Machine for	C. Barus .....	599,522	Feb. 22	2541	597	82	1142
Measuring vessel.	W. H. Cloud .....	614,646	Nov. 22	2542	580	85	1153
Measuring wire and indicating its weight. Machine for	J. P. Barron, J. R. Logan, and M. S. Sheridan .....	616,070	Dec. 20	1553	362 363	85	1745
Meat can. Compressed-	J. L. Black .....	601,931	Apr. 5	584	121 122	83	111
Meat-cutter and feeding device	J. Anderson .....	598,723	Feb. 8	1129	272	82	834
Meat-freezing apparatus	F. G. M. Brittin and B. W. Glass .....	612,817	Oct. 25	2191	521	85	464
Meat-hanger	L. Couch .....	609,414	Aug. 23	2325	549	84	1156
Meat-holder	J. N. and J. T. Firth .....	603,560	May 3	584	129	83	714
Meat-holding device	B. P. Cobb .....	607,680	July 19	2117	443	84	446
Meat-hook support	F. Thacher .....	607,096	July 12	872	188	84	187
Meat or vegetable cutter	I. P. Buckles .....	606,511	June 28	2732	631	83	1931
Meat-packages. Apparatus for making	W. G. Bell .....	607,676	July 19	2112	441	84	445
Meat-pickling apparatus	G. Henkel and H. von Rom .....	603,082	Apr. 26	2593	589	83	535
Meat-press	F. M. McKown .....	602,866	Apr. 26	2210	501	83	465
Meat-salting device	W. T. Flinn .....	609,799	Aug. 30	3019	707	84	1301
Meat-sawing machine	D. Lippy .....	599,569	Feb. 22	2633	617	82	1160
Meat-sawing machine	D. Lippy .....	599,570	Feb. 22	2635	617	82	1160
Meat-sawing machine	D. Lippy .....	599,571	Feb. 22	2636	618	82	1160
Meat-tenderer	M. E. Hunt .....	613,572	Nov. 1	637	147	85	737
Meat-tenderer	J. S. Milne and A. L. Mott .....	611,789	Oct. 4	339	81	85	69
Meats. Marking	A. F. Nathan .....	605,120	June 7	87	23	83	1368
Mechanical motor	G. P. Albright .....	615,948	Dec. 13	1329	310 311	85	1683
Mechanical motor	E. A. Seward and J. J. Joines .....	596,915	Jan. 4	797	188	82	156
Mechanical movement	V. Bélanger .....	606,157	June 21	2070	476	83	1781
Mechanical movement	V. Bélanger .....	606,158	June 21	2073	476 477	83	1781
Mechanical movement	H. F. Brammer .....	606,044	June 21	1865	430	83	1741
Mechanical movement	K. Chickering .....	607,616	July 19	2005	415 416	84	425
Mechanical movement	G. E. Frink .....	599,698	Mar. 1	41	10	82	1224
Mechanical movement	H. E. Harbaugh and A. W. Redin .....	613,199	Oct. 25	2817	666	85	588
Mechanical movement	A. Howard .....	616,333	Dec. 20	2076	484	85	1850
Mechanical movement	C. B. Judd .....	604,010	May 10	1429	320	83	898
Mechanical movement	H. Kramme .....	597,200	Jan. 11	1292	302	82	268
Mechanical movement	S. G. McKean .....	609,361	Aug. 16	2225	526	84	1118
Mechanical movement	A. Plagman .....	608,220	Aug. 2	93	24	84	673
Mechanical movement	S. T. Richardson .....	604,417	May 24	2193	491	83	1095
Mechanical movement	E. C. Riddle .....	605,015	May 31	3238	745	83	1312
Mechanical movement	G. I. Root .....	598,681	Feb. 8	1058	255	82	820
Mechanical movement	L. W. Southgate .....	606,096	June 21	1963	451 452	83	1761



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Mechanical movement	B. A. Walrath	601,294	Mar. 29	2995	677	82	1870
Mechanical movement for windmills, &c	W. H. Delano	598,861	Feb. 8	1339	324	82	874
Mechanic's gage	L. O. Barrett	614,070	Nov. 8	1471	338	85	920
Medical battery. Coin-controlled	N. M. Watson	608,496	Aug. 2	578	130	84	770
Medical preparations. Package for	H. T. Mason	611,136	Sept. 20	1796	413	84	1822
Medical purposes. Electrode for	M. N. Clarke	609,875	Aug. 30	3148	736	84	1328
Medicinal compounds. Preparing	E. W. Grove	609,342	Aug. 16	2198		84	1112
Medicinal powders. Machine for measuring	O. H. Marston	596,756	Jan. 4	539	123 124	82	103
Medicinal vaporizer	A. M. Chambers	611,560	Sept. 27	2614	602	84	1995
Medicine-bottle indicator	H. Altshul	596,646	Jan. 4	333	72	82	66
Medicine-carton	C. E. Swink	602,668	Apr. 19	1876	426	83	385
Medicine-case. Physician's	M. Hoff	603,467	May 3	402	90	83	678
Medicine-dropper	J. B. Schermerhorn	603,973	May 10	1313	301	83	871
Medicine-dropper	W. R. Sine	599,642	Feb. 22	2779	646	82	1189
Medicines. Device for administering	C. C. Hooker	604,393	May 24	2147	482	83	1086
Mercerizing	E. Prevost	615,045	Nov. 29	3301	759	85	1316
Mercerizing apparatus	H. David	616,606	Dec. 27	2588	601	85	1968
Mercerizing apparatus	J. T. Greenwood	608,194	Aug. 2	51	12	84	665
Mercerizing apparatus	A. Wyser	610,619	Sept. 13	878	201	84	1626
Mercerizing-machine	A. Birch	612,189	Oct. 11	1852	253	85	216
Mercerizing-machine	J. R. Hope	616,709	Dec. 27	2000	649	85	2009
Mercerizing under tension	R. Thomas and E. Prevost	600,826	Mar. 15	2165		82	1670
Mercerizing under tension	R. Thomas and E. Prevost	600,827	Mar. 15	2167	494	82	1671
Merchandise-lifter	J. Dowlen and N. Michaelsen	609,013	Aug. 16	1571	374	84	998
Merry-go-round	W. Herfurth	611,482	Sept. 27	2470	569 570	84	1967
Merry-go-round	W. E. Meissner	603,589	May 3	628	140	83	723
Merry-go-round and mechanical race-track	C. Shoettle	598,750	Feb. 8	1167	280 281	82	840
Merry-go-round. Marine	G. W. Sebolt	608,081	July 26	2874	615	84	613
Metal article. Riveted	C. H. Kellerman	599,903	Mar. 1	438	97	82	1296
Metal-bar cutting or dividing apparatus	W. Werner	596,837	Jan. 4	670	155	82	130
Metal bars. Machine for straightening and cooling	R. W. Lundy	611,694	Oct. 4	180	43	85	38
Metal-bending machine	F. A. Rollins	601,403	Mar. 29	3181	718	82	1904
Metal-bound board	W. H. Winslow	613,896	Nov. 8	1198	274	85	865
Metal brace	R. S. Groves	600,865	Mar. 22	2239	510	82	1698
Metal-cask-forming apparatus	J. Harmatta	610,532	Sept. 13	729	165 166	84	1595
Metal-corrugating machine	L. Potthoff	609,294	Aug. 16	2116	502	84	1096
Metal cutter and roller	G. M. Beaty and F. Mazzei	611,599	Oct. 4	6	1, 2	85	4
Metal-cutting-off machine	G. W. Griffin	615,163	Nov. 29	3514	807 808	85	1357
Metal-cutting shears	V. E. Edwards	616,608	Dec. 27	2591	601 602	85	1968
Metal-dishing machine	J. S. Worth	603,094	Apr. 26	2610	593	83	539
Metal-dishing machine	J. S. Worth	603,095	Apr. 26	2612	593	83	539
Metal-dishing machine	W. P. Worth	603,098	Apr. 26	2617	594	83	540
Metal dishing or forming machine	J. S. Worth	603,096	Apr. 26	2614	593	83	540
Metal-drawing apparatus	W. A. McCool	600,012	Mar. 1	606	140	82	1328
Metal-drawing machine	W. A. McCool	600,014	Mar. 1	616	141	82	1330
Metal dressing and grinding machine	L. E. Harper and C. L. Grohmann	612,240	Oct. 11	1144	274 275	85	233
Metal-drilling machine	J. Reece	599,356	Feb. 22	2216	526 527	82	1078
Metal grinding or dressing machine	L. E. Harper and R. F. Dow	596,503	Jan. 4	65	15	82	15
Metal-heating process. Electric	G. D. Burton	615,136	Nov. 29	3462	794	85	1347
Metal. Machine for exhausting molten	J. T. Wainwright	598,037	Jan. 25	2722	635	82	577
Metal. Machine for exhausting molten	J. T. Wainwright. (Reissue)	11,671	June 21	2116	486	83	1790
Metal. Mechanism for handling molten	W. R. Webster, Jr	600,566	Mar. 15	1737	397	82	1589
Metal-planer feed	G. A. Gray and E. Richter	597,355	Jan. 11	1543	360 361	82	317
Metal-planer feed	G. A. Gray and E. Richter	597,356	Jan. 11	1546	361	82	317
Metal-plate-doubling machine	W. L. Jenkins	598,663	Feb. 8	1025	247 248	82	814
Metal plates. Machine for doubling	F. Westwood	611,539	Sept. 27	2565	591 592	84	1986
Metal plates. Machine for thickening edges of	M. Ferguson	615,151	Nov. 29	3495	802 803	85	1353
Metal plates. Motor in apparatus for pickling and washing	G. Mesta	602,686	Apr. 19	1905	433 434	83	391
Metal plates or sheets. Apparatus for separating	J. Williams and G. H. White	602,969	Apr. 26	2396	546 547	83	500
Metal. Process of and apparatus for producing reliefs in	J. Rieder	607,484	July 19	1771	368	84	383
Metal rails and bars. Rolls for straightening	W. Doyle and E. Cartwright	598,140	Feb. 1	111	27	82	624
Metal-reducing apparatus	J. P. Mertes	612,593	Oct. 18	1761	416	85	361
Metal-separator	W. J. Dwyer	603,133	Apr. 26	2678	607 608	83	554
Metal shearing and bending machine	R. E. Daniels	603,813	May 10	1034	230	83	818
Metal-shearing machine	B. Wesselmann	600,465	Mar. 8	1538	353	82	1531
Metal-shearing machine	B. Wesselmann	600,466	Mar. 8	1539	353	82	1532
Metal-shearing machine	B. Wesselmann	606,106	June 21	1986	456	83	1766
Metal sheet or plate polishing, cleaning, and greasing machines. Polishing and feed rolls for	A. J. Demmler	616,184	Dec. 20	1802	417	85	1795
Metal straightening and cutting-off machines. Device for	F. B. Shuster	605,928	June 21	1633	375 376	83	1701
Metal-surface decoration	L. McCallum	598,270	Feb. 1	355	82	82	668
Metal. Tempering	G. D. Burton	614,928	Nov. 29	3065	704	85	1270
Metal tube	J. E. Gresty	607,033	July 12	720	153	84	161
Metal tubes. Apparatus for manufacturing	T. B. Sharp	600,681	Mar. 15	1933	440	82	1626
Metal-upsetting device	N. E. Smith	599,266	Feb. 15	2025	480	82	1020
Metal ware. Apparatus for shaping	T. Connors	601,825	Apr. 5	383	81	83	72



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Metal wheel	D. J. C. Arnold	609,258	Aug. 16	2054	487	84	1084
Metal-working machine	N. V. Perry	603,994	May 10	1355	309	83	880
Metal-working-machine attachment	C. L. Grohmann	612,332	Oct. 11	1310	317	85	262
Metal-working machines	F. G. Echols	602,062	Apr. 12	815	177	83	166
Metal-working machines. Work-holder for	R. W. Lord	603,025	Apr. 26	2487	564	83	516
Metal-working tool	F. Egge	604,376	May 24	2125	477	83	1082
Metals. Apparatus for electrically working	J. D. Bishop	604,137	May 17	1670	375	83	973
Metals. Electrolytic separation of	H. von der Linde	612,250	Oct. 11	1177		85	238
Metals. Extracting	A. Sinding-Larsen	607,287	July 12	1229		84	254
Metals from metallic oxids. Extracting	H. C. Aschermann	610,014	Aug. 30	3407		84	1378
Metals or other materials. Machine for dressing	C. L. Grohmann and L. E. Harper	612,239	Oct. 11	1140	273 274 761 762	85	233
Metals. Oven for treating	F. Guidi	601,511	Mar. 29	3360	762	82	1940
Metals. Separating and refining	F. R. Carpenter	597,139	Jan. 11	1196	281	82	249
Metals. Tool and holder for use in cutting, boring, and slotting	W. H. Hardy	605,422	June 7	699	155	83	1487
Metallic article. Coated	H. O. Cary	612,190	Oct. 11	1055		85	216
Metallic articles. Manufacturing cold-drawn	W. A. McCool	602,417	Apr. 12	1430	323	83	288
Metallic balls. Die for and method of swaging	J. B. F. Gay	611,574	Sept. 27	2640	609	84	2000
Metallic balls. Machine for manufacturing	L. W. Merriam	596,899	Jan. 4	769	181	82	150
Metallic-frame joint	W. S. Tuttle	599,541	Feb. 22	2573	603	82	1148
Metallic leaf. Device for applying	W. H. Coe	599,140	Feb. 15	1825	433	82	983
Metallic or other sheets together. Means for securing	J. T. Morrow	600,498	Mar. 8	1616	369 370	82	1547
Metallic pipe. Flexible	C. Rudolph and G. Levavasseur	605,587	June 14	962	223	83	1558
Metallic spun article	W. McAusland	599,286	Feb. 15	2061	490	82	1027
Metallic strips. Tool for cutting and binding	T. L. Stewart	605,761	June 14	1273	294	83	1615
Metallic wheel	A. W. Calvert	608,951	Aug. 9	1439	340	84	951
Metalloceramic resistances. Fabricating	L. Parvillée	602,227	Apr. 12	1112		83	224
Metallurgical furnace	J. Manes	602,761	Apr. 19	2017	457 458	83	412
Metallurgical furnace	L. Pietraschewski	614,129	Nov. 15	1591	364 365	85	964
Meter:							
See Coin-controlled meter.	Maximum meter.						
Current-meter.	Motor-meter.						
Electric meter.	Oscillating meter.						
Exposure-meter.	Proportional meter.						
Fluid-meter.	Steam-meter.						
Gas-meter.	Voltmeter.						
Gas-supply meter.	Water-meter.						
Hysteresis-meter.	Wattmeter.						
Meter	J. L. Dodge	599,494	Feb. 22	2496	587	82	1133
Meter coin-controlling and recording mechanism	S. E. Mower	604,175	May 17	1747	393 394	83	990
Meter-coupling protective device	C. Ennis	602,982	Apr. 26	2419	551	83	504
Meter for water, &c.	A. E. Dobbs	614,707	Nov. 22	2656	605 606	85	1174
Meter prepayment attachment	C. Luke	604,255	May 17	1886	422	83	1016
Meter prepayment attachment	S. E. Mower	604,173	May 17	1739	392 393	83	988
Meter-reading attachment	C. L. Arques	604,953	May 31	3137	721	83	1293
Meter registering mechanism	S. E. Mower	604,174	May 17	1745	393	83	990
Meter-testing device	F. Lambert	603,485	May 3	441	99	83	686
Metering system. Multiple-rate	F. T. McIntyre	611,927	Oct. 4	579	140	85	114
Micrometer attachment for engineers' transits	G. W. Dickinson	612,314	Oct. 11	1281	309	85	257
Micrometer depth-gage	F. Spalding	597,335	Jan. 11	1511	354	82	311
Micrometer-gage	S. H. Bellows	612,601	Oct. 18	1776	419	85	364
Micrometer-gage	V. C. Todd	607,898	July 26	2545	540	84	546
Microphone	T. J. Howell	607,994	July 26	2714	579	84	578
Microphone containing granular carbon for retaining material in position.	L. M. Ericsson	616,186	Dec. 20	1806	417	85	1796
Middlings-purifier	H. Simon	601,817	Apr. 5	370	77	83	70
Military equipment	H. J. Rose and W. Gilbert-Cooper	608,481	Aug. 2	557	124	84	766
Milk. Apparatus for determining fat in	A. W. Stokes	602,780	Apr. 19	2051	464	83	419
Milk. Apparatus for testing amount of fat in	A. W. Stokes	599,369	Feb. 22	2243	532	82	1084
Milk-can	W. H. Arner and E. L. Hendershott.	609,074	Aug. 16	1689	402	84	1014
Milk-can	J. F. Foster and A. Ferber	611,361	Sept. 27	2238	517	84	1924
Milk-can	H. V. Frink	609,018	Aug. 16	1584	377	84	994
Milk-can	H. B. Haigh	607,433	July 19	1501	319	84	323
Milk-can	H. Taylor	599,153	Feb. 15	1847	438	82	987
Milk-can	E. Wiart	602,675	Apr. 19	1888	429	83	387
Milk-can. Self-measuring	C. H. Van Alstyne	616,594	Dec. 27	2560	592 593	85	1963
Milk-cooler	C. Cahoon	610,299	Sept. 6	305	66	84	1501
Milk-cooler	R. Estelle	608,113	July 26	2924	626	84	622
Milk-cooler	S. Snider	599,644	Feb. 22	2781	647	82	1190
Milk-cooling apparatus	L. H. Porter	602,956	Apr. 26	2378	542	83	497
Milk cup. Condensed	A. D. Cypher	608,323	Aug. 2	286	63	84	712
Milk for infants. Preparing cows'	A. Backhaus	597,378	Jan. 18	1595		82	345
Milk hygienically. Apparatus for treating	W. F. Niebling	604,177	May 17	1751	394 395	83	991
Milk measuring and discharging machine	W. E. Penn	604,261	May 17	1893	424 425	83	1017
Milk. Preserving	A. Fernandez	602,315	Apr. 12	1263	279	83	255
Milk. Process of and apparatus for clarifying	J. L. Bergh	607,109	July 12	891	192	84	191
Milk-sterilizer	R. T. Hewlett	608,198	Aug. 2	58	14	84	666
Milk-tester. Centrifugal	M. L. Hoyt and H. Feldmeier	610,650	Sept. 13	924	213	84	1635
Milker. Cow-	R. D. Roth	603,049	Apr. 26	2521	573	83	523
Milking apparatus	O. R. Hauskey	603,616	May 3	690	154	83	734
Milking apparatus	D. Klein	598,423	Feb. 1	620	152	82	720
Milking-hopple	A. Rice	609,833	Aug. 30	3085	719	84	1314



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Mill:							
See Ball-mill.	Grist-mill.						
Boring and turning mill.	Pulverizing-mill.						
Chilian mill.	Quartz-mill.						
Coffee-mill.	Rolling-mill.						
Coffee or spice mill.	Sampling-mill.						
Crushing-mill.	Sawmill.						
Crushing and pulverizing mill.	Stamp-mill.						
Crushing or amalgamating mill.	Stamping and crushing mill.						
Feed-mill.	Tea-cutting mill.						
Grinding-mill.	Windmill.						
	Wire-drawing mill.						
Milling and gear-cutting attachment	J. F. Arthur	608,822	Aug. 9	1201	281	84	907
Milling-cutter	A. H. Morton	604,776	May 31	2847	651	83	1236
Milling-cutter	L. Smith	602,039	Apr. 5	780	169	83	147
Milling-cutter for metal-working machines	A. Klay	602,291	Apr. 12	1226	270	83	246
Milling knife-bolsters, &c. Apparatus for	A. Johnston	600,426	Mar. 8	1458	333	82	1517
Milling knife-bolsters, &c. Machine for	A. Johnston	600,153	Mar. 8	1018	228	82	1433
Milling-machine	L. D. Burlingame	597,390	Jan. 18	1615	376	82	348
Milling-machine	L. F. Campi	597,893	Jan. 25	2473	577 578	82	530
Milling-machine	F. O. Farwell	596,491	Jan. 4	44	10, 11	82	11
Milling-machine	C. G. Shedden	615,313	Dec. 6	158	42	85	1444
Milling-machine	O. Tyberg	596,670	Jan. 4	374	83, 84	82	74
Milling-machine	C. C. Tyler and C. L. Grohmann	612,466	Oct. 18	1543	370 371	85	321
Milling-machine tail-stock	C. L. Grohmann	610,677	Sept. 13	965	223	84	1644
Milling-machines. Index-head for	C. L. Grohmann	612,412	Oct. 18	1451	350 351	85	303
Millstone	T. L. and T. J. Sturtevant	616,160	Dec. 20	1757	407	85	1787
Mine-draining siphon	J. C. Souleyret	599,366	Feb. 22	2241	531	82	1083
Mine-gate	N. K. Bowman	608,436	Aug. 2	481	108 109	84	751
Mine-gate	N. K. Bowman	608,506	Aug. 2	595	133 134	84	774
Mine-gate	N. K. Bowman	608,645	Aug. 9	861	198	84	844
Mine-gate	N. K. Bowman	612,012	Oct. 11	752	185 186	85	157
Mine-gate	N. K. Bowman	613,751	Nov. 8	951	218	85	818
Mine trap-door	J. O'Brien	609,746	Aug. 23	2925	684	84	1269
Mine trap-door	A. Hurford	615,276	Dec. 6	103	27, 28	85	1433
Mine trap-door	J. W. Shallenberger	613,607	Nov. 1	695	160	85	749
Mines. Air-door for coal-	A. E. Holbrook and J. F. Harding	597,147	Jan. 11	1206	282	82	250
Miner's drill	J. F. Strauser and H. T. Klinger	616,273	Dec. 20	1973	459	85	1830
Miner's knife	H. Martin	613,698	Nov. 8	835	191	85	797
Miner's prospecting-tool	T. S. Glover	614,265	Nov. 15	1848	427	85	1011
Miners' use. Prospecting implement for	E. S. Glover	598,146	Feb. 1	124	29	82	626
Mining apparatus	G. F. Kibling	604,330	May 17	2029	454	83	1043
Mining. Device for thawing earth for placer	F. Kraemer	614,227	Nov. 15	1763	404	85	996
Mining-dredge	I. Stead	615,414	Dec. 6	375	89	85	1486
Mining-drill and channel-cutter	J. P. Paynter	597,589	Jan. 18	1955	454 455	82	415
Mining in frozen ground. Apparatus for	S. H. and E. B. Haycock	610,048	Aug. 30	3462	808	84	1389
Mining-machine	A. Ball and T. Officer	615,236	Dec. 6	8	2	85	1412
Mining-machine	W. G. Halbert	607,170	July 12	1006	219	84	212
Mining-machine	E. L. Hopkins	597,358	Jan. 11	1548	362	82	318
Mining-machine	D. A. and T. E. Lee	601,971	Apr. 5	675	143	83	128
Mining-machine	E. S. and W. A. McKinlay	604,192	May 17	1775	400	83	995
Mining-machine	E. C. Morgan	597,085	Jan. 11	1108	261 262	82	232
Mining-machine	G. F. Myers	600,838	Mar. 15	2187	498 499	82	1674
Mining-machine chain	C. H. Boardman	596,673	Jan. 4	379	85	82	76
Mining machinery	G. F. Card	598,360	Feb. 1	495	118 119 120 121	82	696
Mining-powders. Composition for preventing fumes in	R. Crowe	612,707	Oct. 18	1981		85	403
Mineral separator and concentrator. Dry	G. H. Patterson	614,574	Nov. 22	2405	549	85	1129
Mineral waters. Apparatus for making and dispensing	P. E. Malmstrom	602,909	Apr. 26	2288	522	83	478
Mineral wool	C. P. Doak	605,042	May 31	3286		83	1321
Minnow-trap	D. H. Wisner	599,086	Feb. 15	1726	410	82	966
Mirror	W. Q. Prewitt	610,918	Sept. 20	1391	318	84	1745
Mirror-holder	S. H. Clark	615,250	Dec. 6	42	10	85	1420
Mirror. Mouth and throat	H. Bausch	610,518	Sept. 13	709	161	84	1591
Mirror pivot and adjuster	F. W. Tobey	597,308	Jan. 11	1457	342	82	300
Mirror-stand. Portable folding	S. A. Lane	611,434	Sept. 27	2385	547	84	1950
Miter-box	H. L. Cooper	613,189	Oct. 25	2800	660	85	584
Miter-box	F. S. and H. A. King	612,111	Oct. 11	926	225	85	191
Miter-box	M. Nicholls	615,097	Nov. 29	3402	780	85	1334
Miter-clamp	A. Kohler	600,370	Mar. 8	1368	312	82	1500
Miter cutting and shooting block	W. O. Bailey	604,290	May 17	1949	437	83	1028
Miter cutting and shooting block	W. O. Bailey	604,291	May 17	1951	437	83	1028
Miter-frame	D. E. Beeghly	600,905	Mar. 22	2303	525	82	1710
Mitering-machine	C. O. Bruno	600,118	Mar. 1	902	206	82	1391
Mixer:							
See Air and gas mixer.	Liquid-mixer.						
Feed-mixer.	Paint-mixer.						
Gas-mixer.							
Mixer	T. A. Edison	605,668	June 14	1121	259	83	1586
Mixing liquids, &c. Device for	J. F. Flaherty	609,270	Aug. 16	2072	492	84	1088



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Mixing-machine.....	J. H. Day.....	604,734	May 31	2781	636	83	1223
Mixing-machine.....	P. F. Dundon.....	612,317	Oct. 11	1286	310	85	258
Mixing-machine.....	F. C. Ferris.....	612,584	Oct. 18	1748	414	85	359
Moistener and sealer. Envelop.....	B. F. Pletcher.....	611,934	Oct. 4	589	142	85	116
Moistener and sealer. Envelop.....	H. A. Thexton.....	611,873	Oct. 4	489	118	85	98
Moistener and sealer. Stamp and envelop.....	J. A. Pearson and H. F. Huston.....	601,526	Mar. 29	3388	767	82	1946
Moistener. Envelop.....	S. S. Marley.....	597,010	Jan. 11	969	229	82	204
Moistener for gummed surfaces.....	G. S. Hill.....	611,784	Oct. 4	331	80	85	67
Moistener for gummed surfaces.....	W. L. West.....	609,175	Aug. 16	1883	448	84	1047
Moistener. Stamp and envelop.....	E. Boggis.....	608,642	Aug. 9	856	197	84	843
Moistening and sealing envelops. Machine for automatically.....	J. Dupaw.....	602,801	Apr. 19	2102	474	83	428
Moistening device.....	J. J. Karges.....	603,768	May 10	947	211	83	801
Moistening, sealing, and stamp-affixing machine. Envelop.....	H. P. Jones.....	615,185	Nov. 29	3552	817	85	1365
Mold:							
See Brick-machine mold. Ice-cream mold. Ingot-mold. Linotype-machine mold. Tile-forming mold. Tooth-mold.							
Bullet-mold.							
Butter-mold.							
Glass-mold.							
Mold.....	P. H. Minis, Jr.....	600,011	Mar. 1	604	139	82	1327
Mold-chill.....	E. Peipers.....	609,460	Aug. 23	2413	566	84	1172
Mold-forming apparatus. Sand.....	S. J. Adams.....	598,492	Feb. 8	723	175	82	737
Mold material and molds. Manufacture of.....	S. Johnston.....	598,633	Feb. 8	975	-----	82	805
Molds, cores, &c. Material suitable for.....	S. Johnston.....	598,632	Feb. 8	974	-----	82	805
Molding apparatus.....	B. C. White.....	600,188	Mar. 8	1071	242 243	82	1443
Molding celluloid, &c. Apparatus for.....	G. J. Burns and D. L. Chandler.....	597,929	Jan. 25	2531	591	82	540
Molding-flask.....	G. W. Cope.....	596,853	Jan. 4	693	159	82	135
Molding-flasks. Hand clamping device for.....	J. Scherer.....	605,347	June 7	562	124	83	1460
Molding-machine.....	W. B. Burns.....	603,423	May 3	311	70	83	660
Molding-machine.....	J. E. Criggal.....	614,843	Nov. 29	2889	665	85	1236
Molding-machine.....	W. W. Doolittle.....	612,901	Oct. 18	2153	511 512	85	437
Molding-machine.....	G. Flickinger.....	606,779	July 5	276	57	84	55
Molding-machine.....	J. E. McCanna.....	598,252	Feb. 1	318	73	82	662
Molding-machine.....	L. Poole.....	615,574	Dec. 6	665	153	85	1542
Molding-machine.....	W. D. Wiman.....	607,152	July 12	973	210 211	84	205
Molding machine. Sand.....	J. D. Duckett and W. Badger.....	603,267	May 3	44	11, 12	83	679
Molding-machines. Guide and guard for variety.....	A. L. Stoddard.....	604,946	May 31	3127	719	83	1291
Molding machinery.....	W. W. Doolittle.....	612,802	Oct. 18	2155	512 513	85	438
Molding masse-cuite. Apparatus for.....	L. May.....	616,079	Dec. 27	2743	637	85	1998
Molding-press.....	E. H. Callaway.....	616,401	Dec. 20	2202	514 515	85	1874
Molding-press.....	H. A. E. Smith.....	614,239	Nov. 15	1801	415	85	1002
Mole-trap.....	W. M. Ball.....	602,818	Apr. 26	2141	486	83	451
Money packet or holder.....	P. Schlemmer.....	610,727	Sept. 13	1053	242	84	1662
Monkey-wrench.....	C. E. Anderson.....	601,114	Mar. 22	2644	603	82	1776
Monkey-wrench.....	J. A. Hensler.....	608,520	Aug. 2	626	141	84	779
Monkey-wrench.....	P. Quarelli.....	598,487	Feb. 1	711	172	82	737
Monkey-wrench.....	J. L. Whitehead.....	598,588	Feb. 8	893	214	82	790
Monkey-wrench. Ratchet.....	C. E. Frederickson.....	605,444	June 7	727	164	83	1493
Monocycle.....	G. S. Foster.....	599,697	Mar. 1	39	9	82	1223
Mop.....	H. A. Wolff.....	606,495	June 28	2711	624	83	1927
Mop-head.....	D. E. Ballam.....	603,999	May 10	1368	311 312	83	883
Mop-holder.....	H. A. L. Bade.....	604,107	May 17	1620	364	83	965
Mop-holder.....	C. W. Parks.....	615,410	Dec. 6	370	88	85	1484
Mop holder and wringer.....	O. Kurz.....	605,961	June 21	1710	392	83	1714
Mop-wringer.....	O. H. Eddy.....	613,258	Nov. 1	56	14	85	627
Mop-wringer.....	C. Griffith.....	612,842	Oct. 25	2250	538	85	474
Mop-wringer.....	I. Joyner.....	609,351	Aug. 16	2211	523	84	1115
Mop-wringer.....	I. N. Marquis.....	612,116	Oct. 11	936	227	85	193
Mop-wringer.....	W. D. Martin.....	610,549	Sept. 13	763	173	84	1601
Mop-wringer.....	J. L. Sprague.....	609,710	Aug. 23	2876	672	84	1260
Mop-wringer.....	H. A. Wolff.....	603,547	May 3	564	124	83	710
Mop-wringing attachment for pails.....	F. Trimble.....	605,362	June 7	596	132	83	1465
Mordant.....	G. Wendler.....	609,131	Aug. 16	1804	-----	84	1034
Mordant from sulfite-cellulose lyes.....	H. Seidel.....	608,231	Aug. 2	112	-----	84	676
Mordanting.....	C. Dreher.....	597,107	Jan. 11	1146	-----	82	240
Mordanting.....	F. J. Oakes.....	601,673	Apr. 5	85	-----	83	17
Mordanting wool.....	C. Dreher.....	597,401	Jan. 18	1632	-----	82	351
Morpholin and making same.....	L. Knorr.....	615,488	Dec. 6	504	-----	85	1509
Mortar-making machine.....	W. B. Upton.....	616,373	Dec. 20	2152	501 502	85	1865
Mortising-bit.....	R. Hikki.....	602,752	Apr. 19	2008	454	83	410
Mortising-machine.....	W. Black.....	605,774	June 14	1301	301	83	1620
Mortising or gang-drilling machine.....	A. Van Wagner.....	615,116	Nov. 29	3430	787 788	85	1340
Mosquito-bar attachment.....	L. Payssé and W. P. Carey.....	600,167	Mar. 8	1041	234	82	1438
Moth or insect trap.....	E. A. Murphy and J. D. Waters.....	598,950	Feb. 15	1507	358 359	82	922
Motion. Device for converting.....	H. R. Bird.....	614,645	Nov. 22	2539	579	85	1153
Motion. Device for converting.....	A. Hadsall.....	604,826	May 31	2923	669	83	1251
Motion. Device for converting.....	E. P. Herpin.....	611,318	Sept. 27	2151	497	84	1909
Motion. Device for converting.....	G. R. Laidlaw.....	605,553	June 14	891	208	83	1545
Motion. Device for converting.....	C. Stafford.....	614,141	Nov. 15	1609	368 369	85	967
Motion. Device for converting reciprocatory into rotary.....	A. B. Perine.....	611,932	Oct. 4	586	141	85	115
Motion. Means for transmitting.....	J. H. and E. A. Holmgreen.....	611,786	Oct. 4	336	80, 81	85	68
Motion. Mechanism for converting.....	F. C. Thompson.....	612,442	Oct. 18	1502	362	85	313



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Motion. Mechanism for converting continuous rotary motion into intermittent rotary	J. A. Burden	608,573	Aug. 9	717	164	84	818
Motion. Mechanism for converting rotary to reciprocating	J. W. Butterfield	605,218	June 7	303	69,70	83	1409
Motion or power. Mechanism for transmitting	E. M. Bowden	609,570	Aug. 23	2606	{ 609 610	{ 84	1208
Motion-reversing device	W. S. Rogers	597,435	Jan. 18	1691	392	82	362
Motion to shafts at various angles. Means for transmitting	H. C. Mooers	612,862	Oct. 25	2282	544	85	480
Motive engine	A. Howard	602,161	Apr. 12	1003	220	83	202
Motocycle	L. H. Wattles	597,042	Jan. 11	1020	241	82	215
Motor:							
See Baby-rocker motor.	Powder-motor.						
Bicycle-motor.	Pump-operating motor.						
Car-motor.	Railway-motor.						
Current-motor.	Rotary motor.						
Current induction-motor.	Sewing-machine motor.						
Electric motor.	Sled-motor.						
Electromagnetic motor.	Spring-motor.						
Fluid-pressure motor.	Steam-motor.						
Gas-motor.	Tidal motor.						
Gas or oil motor.	Tide-motor.						
Hydraulic motor.	Tide and wave motor.						
Hydrocarbon-motor.	Traction-motor.						
Induction-motor.	Turbine motor.						
Internal-combustion motor.	Varipolar motor.						
Mechanical motor.	Vehicle-motor.						
Oil or similar motor.	Water-motor.						
Pneumatic motor.	Wave-motor.						
	Wave or current motor.						
	Wave or stream motor.						
	Wind-motor.						
Motor.	P. Auriol	602,652	Apr. 19	1834	418	83	377
Motor.	F. A. Brennan	605,382	June 7	624	139	83	1471
Motor.	L. W. Carson	608,836	Aug. 9	1226	286	84	911
Motor.	H. Clay	603,173	Apr. 26	2735	623	83	565
Motor.	T. Douglass	616,090	Dec. 20	1601	373	85	1755
Motor.	J. A. Goodner and J. M. Chritton	615,844	Dec. 13	1134	265	85	1647
Motor.	H. Hoeschen	600,420	Mar. 8	1446	331	82	1515
Motor.	H. W. E. Horst	606,926	July 5	515	113	84	102
Motor.	J. F. W. Koetter	605,439	June 7	721	162	83	1492
Motor.	F. M. Mackey	602,086	Apr. 12	856	{ 186 187	{ 83	174
Motor.	N. Roser and J. Mazurier	597,888	Jan. 25	2466	576	82	528
Motor.	N. Rossi and F. Ghiggeri	616,589	Dec. 27	2553	591	85	1961
Motor.	H. Wilcke	608,242	Aug. 2	130	31,32	84	680
Motor-casing	S. H. Short	599,918	Mar. 1	462	103	82	1301
Motor-meter. Alternating-current	J. A. Möllinger and K. Kurda	606,630	June 28	2960	686	83	1974
Motor-starting apparatus	J. Burke	611,558	Sept. 27	2609	{ 601 602	{ 84	1994
Motors. Method of and means for securing constant torque in polyphase	B. G. Lamme	609,991	Aug. 30	3374	783	84	1371
Motting or spotting device	C. Regan	609,368	Aug. 16	2236	528	84	1120
Mouse-trap	H. Y. Armstrong	614,430	Nov. 22	2159	497	85	1085
Mouse-trap	M. J. Lawler	615,562	Dec. 6	647	148	85	1538
Movements. Mechanism for imparting successive or alternating	E. Moore	611,501	Sept. 27	2501	577	84	1973
Moving way or stair for transporting persons and goods.	J. Hallé	602,008	Apr. 5	728	{ 155 156	{ 83	138
Mower	T. S. Brown	604,851	May 31	2967	680	83	1259
Mower	A. Hart	605,874	June 21	1528	{ 352 353	{ 83	1680
Mower	M. Kane	601,261	Mar. 29	2912	603	82	1853
Mower	J. Macphail	604,901	May 31	3054	{ 701 702	{ 83	1276
Mower	J. W. Pridmore	596,542	Jan. 4	140	32,33	82	29
Mower	J. F. Steward	596,796	Jan. 4	601	{ 139 140	{ 82	115
Mower and trimmer. Convertible lawn	S. O. Johnson	616,846	Dec. 27	3031	705	85	2057
Mower attachment	G. Borrett and J. R. Crispin	615,134	Nov. 29	3460	794	85	1346
Mower attachment	T. Naus	604,779	May 31	2853	652	83	1237
Mower catch-basket. Lawn	N. Kauffmann	607,380	July 12	1400	{ 298 299	{ 84	287
Mower cutting apparatus	S. S. Dennis and T. F. Thorn	602,734	Apr. 19	1982	450	83	405
Mower elevator attachment. Lawn	C. E. Kreider	600,005	Mar. 1	594	{ 136 137	{ 82	1325
Mower grass-catcher. Lawn	P. C. Mabury	612,856	Oct. 25	2274	542	85	478
Mower grass-collector. Lawn	T. Coldwell	608,029	July 26	2802	596	84	598
Mower grass-receptacle. Lawn	L. Wildermuth	607,899	July 26	2546	540	84	546
Mower. Hand lawn	C. L. Shonle	609,709	Aug. 23	2874	{ 671 672	{ 84	1259
Mower. Lawn	P. C. Burhans	605,074	June 7	12	4	83	1355
Mower. Lawn	W. Burnet	613,834	Nov. 8	1090	248	85	844
Mower. Lawn	M. N. Cormack	615,680	Dec. 13	854	{ 196 197	{ 85	1592
Mower. Lawn	W. W. Crockett	605,176	June 7	212	52	83	1391
Mower. Lawn	L. H. Davis	596,985	Jan. 11	928	{ 219 220	{ 82	197
Mower. Lawn	S. P. Graham	597,972	Jan. 25	2608	610	82	556
Mower. Lawn	A. Hill	600,913	Mar. 22	2315	527	82	1712
Mower. Lawn	H. Jackson	611,217	Sept. 20	1944	448	84	1849
Mower. Lawn	P. McLaughlin	608,526	Aug. 2	633	142	84	780
Mower. Lawn	H. W. Morgel	602,513	Apr. 19	1593	{ 364 365	{ 83	333
Mower. Lawn	R. K. Ortt	610,081	Aug. 30	3516	815	84	1400



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Mower. Lawn-.....	O. B. Pickett .....	610,200	Sept. 6	87	18	84	1457
Mower. Lawn-.....	N. P. Shulin .....	605,927	June 21	1631	375	83	1701
Mower. Lawn-.....	L. H. Slaght .....	610,694	Sept. 13	994	231	84	1650
Mower. Lawn-.....	P. G. White .....	599,208	Feb. 15	1934	458	82	1003
Mowers. Gathering attachment for lawn-.....	E. C. Trisler .....	601,008	Mar. 22	2482	564	82	1743
Mowing and raking machine. Combined.....	J. McCallum .....	607,698	July 19	2149	452	84	452
Mowing and reaping machines. Rotary sickle for.....	J. A. Davis .....	604,189	May 17	1770	399	83	994
Mowing-machine.....	J. W. Cypher .....	610,671	Sept. 13	956	221	84	1642
Mowing-machine.....	V. Daniele .....	607,347	July 12	1333	285	84	275
Mowing-machine.....	D. W. Kneisly .....	604,353	May 17	2081	466	83	1054
Mowing-machine.....	G. A. Longley .....	608,057	July 26	2840	605	84	605
Mowing-machine.....	W. O. McGee and C. L. Downing.....	600,015	Mar. 1	619	141	82	1331
Mowing-machine.....	O. Morris .....	602,586	Apr. 19	1715	390	83	354
Mowing-machine.....	A. I. Simmons .....	610,287	Sept. 6	279	60 61 62	84	1495
Mowing-machine.....	H. R. Stirling .....	601,911	Apr. 5	557	114	83	106
Mowing-machine.....	C. C. Swain .....	616,370	Dec. 20	2147	499 500	85	1864
Mowing-machine attachment.....	T. Ellenbecker .....	600,716	Mar. 15	1991	453	82	1637
Mowing-machine bunching attachment.....	J. L. Tandy and W. E. Rader .....	606,902	July 5	479	103 104	84	95
Mowing-machine finger and stationary blade.....	J. H. Randall .....	616,631	Dec. 27	2630	609	85	1976
Mowing-machine finger-bar latch.....	J. Woods .....	615,334	Dec. 6	196	49	85	1451
Mowing-machine grain-lifter.....	W. Jäger .....	597,580	Jan. 18	1937	450	82	411
Mowing-machine knife-guard.....	W. L. Wall .....	609,376	Aug. 16	2247	531	84	1122
Mowing-machines. Bar-lifting mechanism for.....	C. S. Sharp .....	611,978	Oct. 4	664	161 162	85	130
Mowing-machines. Finger-bar for.....	R. M. Clark .....	611,993	Oct. 4	701	169	85	137
Mucilage-holder.....	A. N. Allen .....	606,111	June 21	1992	457	83	1767
Mucilage-holder.....	F. F. Peck .....	598,388	Feb. 1	541	132	82	705
Mucilage-holder.....	C. W. Taylor .....	610,103	Aug. 30	3544	822	84	1406
Mucilage-reservoir. Pocket.....	J. H. Wiehl .....	596,951	Jan. 4	864	202	82	168
Mud-drum and boiler connection.....	W. J. Brady .....	600,059	Mar. 1	794	181	82	1370
Mud-guard.....	C. Goergen .....	608,451	Aug. 2	503	113	84	755
Mud-guard.....	R. H. Reid .....	606,359	June 28	2474	575	83	1879
Mud-guard and robe-holder.....	T. A. Lotz .....	598,794	Feb. 8	1235	299	82	854
Mud-guard and storm-fender. Reversible.....	G. Gordon .....	606,135	June 21	2037	466	83	1774
Muff.....	G. C. Leonard .....	610,187	Sept. 6	66	13	84	1453
Muff. Hand or finger.....	A. T. Sinclair .....	607,963	July 26	2657	567	84	567
Mule-carriages. Dash-pot for steadying.....	S. Green .....	604,563	May 24	2472	562	83	1146
Multiple energizer momentum-engine.....	B. C. Pole .....	600,446	Mar. 8	1491	340 341 342	82	1523
Multiplication. Chart for facilitating operation of.....	H. P. Butler .....	616,523	Dec. 27	2450	567	85	1943
Music-book holder.....	C. D. Hale .....	606,924	July 5	513	112	84	102
Music-book leaf-turner.....	A. McRae .....	615,403	Dec. 6	355	85	85	1481
Music-box.....	L. P. Valiquet and A. Sueur .....	610,504	Sept. 6	685	153 154	84	1570
Music-box operating mechanism.....	L. P. Valiquet .....	615,765	Dec. 13	1004	234	85	1622
Music-chair.....	W. O. and E. K. Campbell .....	601,727	Apr. 5	200	39	83	39
Music-holder.....	O. I. Bye .....	608,438	Aug. 2	484	110	84	752
Music holder and turner.....	A. A. Patterson .....	608,707	Aug. 9	969	223	84	866
Music-leaf turner.....	W. G. De Ramus .....	614,372	Nov. 15	2041	471	85	1048
Music-leaf turner.....	C. Gittus, Jr. ....	604,825	May 31	2920	668 669	83	1250
Music-leaf turner.....	A. M. Griffin and F. H. Shuler .....	598,779	Feb. 8	1212	294	82	849
Music-leaf turner.....	R. E. Swartz .....	606,252	June 28	2277	526	83	1841
Music-leaf turner.....	L. Wyssinger .....	606,110	June 21	1991	457	83	1767
Music or book holder and rack.....	A. J. Smetters .....	601,736	Apr. 5	221	44	83	43
Music or copy holder.....	A. S. Henderson .....	605,959	June 21	1708	391	83	1714
Music-rack.....	J. Englund .....	615,480	Dec. 6	493	114	85	1507
Music-rack. Folding.....	H. E. Britton .....	601,424	Mar. 29	3215	725	82	1911
Music recording and reproducing device.....	E. K. Adams .....	608,415	Aug. 2	448	100	84	745
Music-recording mechanism.....	A. A. Lateulere .....	610,141	Aug. 30	3604	837	84	1418
Music-roll mechanism for self-playing instruments.....	F. W. Hedgeland .....	613,924	Nov. 8	1238	281	85	873
Music-rolls in self-playing instruments. Mechanism for driving.....	F. W. Hedgeland .....	615,850	Dec. 13	1143	267	85	1649
Music-sheet and turning device therefor.....	A. J. Pierce .....	612,672	Oct. 18	1920	455	85	391
Music-sheets of automatic instruments. Speed-regulating mechanism for.....	F. W. Hedgeland .....	614,864	Nov. 29	2948	677	85	1247
Music-stand.....	A. Krauth .....	597,722	Jan. 25	2179	509	82	474
Music stand, case, and folio. Combination.....	C. H. Hope .....	607,374	July 12	1390	296	84	286
Music-turner.....	E. W. Funk .....	601,644	Apr. 5	33	7, 8	83	8
Music turner and holder. Automatic.....	I. A. Shanton .....	596,548	Jan. 4	154	35	82	32
Music turner. Sheet.....	C. A. Comp .....	602,127	Apr. 12	927	202	83	188
Music-work. Mechanical.....	F. Gronau .....	599,703	Mar. 1	52	11, 12	82	1226
Musical instrument.....	B. C. Auten .....	604,954	May 31	3138	721 722	83	1293
Musical instrument.....	P. Casolin .....	602,695	Apr. 19	1919	437	83	393
Musical instrument.....	T. H. Deckert .....	605,041	May 31	3285	754	83	1321
Musical instrument.....	S. Hoadley .....	599,608	Feb. 22	2708	633	82	1174
Musical instrument.....	V. Maggio .....	612,005	Oct. 4	719	173	85	140
Musical instrument.....	M. F. Maus .....	612,930	Oct. 25	2394	570	85	502
Musical instrument.....	F. G. McPherson .....	602,352	Apr. 12	1318	293	83	266
Musical instrument.....	C. Nalence .....	601,100	Mar. 22	2620	598	82	1771
Musical instrument.....	R. W. Pain .....	614,886	Nov. 29	2982	683 684	85	1254
Musical instrument.....	O. Pedersen .....	614,755	Nov. 22	2738	625	85	1192
Musical instrument.....	E. A. Schubert .....	609,706	Aug. 23	2871	670	84	1259
Musical instrument.....	J. A. Weser .....	601,329	Mar. 29	3056	689	82	1881
Musical-instrument attachment.....	M. E. Verdier .....	602,248	Apr. 12	1146	251	83	230
Musical instrument. Automatic.....	M. S. Wright .....	596,730	Jan. 4	490	112	82	95
Musical instrument. Automatically-operated stringed.....	O. H. Arno .....	596,768	Jan. 4	555	127 128	82	107
Musical-instrument damper device. Mechanical.....	G. Bortmann and R. Munkwitz .....	599,681	Mar. 1	10	2	82	1219



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Musical-instrument device. Stringed-----	W. S. Reed-----	606,813	July 5	334	71	84	67
Musical instrument. Electromechanical-----	G. H. Davis-----	606,279	June 28	2318	536 537	83	1850
Musical-instrument indicator. Stringed-----	J. C. St. John-----	614,775	Nov. 22	2769	632	85	1198
Musical instrument. Mechanical-----	A. Keller-----	599,710	Mar. 1	62	14	82	1228
Musical instrument. Mechanical-----	R. W. Pain-----	601,163	Mar. 22	2719	625 626	82	1790
Musical instrument. Mechanical-----	A. Richter-----	605,134	June 7	120	30, 31	83	1374
Musical-instrument neck-----	F. B. Bremerman-----	600,507	Mar. 15	1636	373	82	1570
Musical-instrument pedal-----	R. M. Bent-----	613,232	Nov. 1	10	3	85	619
Musical-instrument picker device. Stringed-----	W. Gustafson-----	606,207	June 28	2173	499	83	1819
Musical-instrument picker device. Stringed-----	C. B. Kendall and J. P. Tirrell-----	606,220	June 28	2209	507	83	1827
Musical-instrument picker device. Stringed-----	W. A. Lorenz and C. E. De Lue-----	606,222	June 28	2213	508 509	83	1827
Musical-instrument pneumatic action-----	C. B. Kendall-----	606,219	June 28	2207	506 507	83	1826
Musical instrument. Stringed-----	A. J. Forrest-----	607,359	July 12	1351	289	84	278
Musical instrument. Stringed-----	W. Hönings and F. Sommer-----	610,905	Sept. 20	1373	314	84	1742
Musical instrument. Stringed-----	A. R. Lerro-----	600,586	Mar. 15	1774	405	82	1596
Musical instrument. Stringed-----	R. Prigge-----	598,958	Feb. 15	1518	361 362	82	924
Musical-instrument strings. Pin or peg for-----	C. Gittus-----	605,043	May 31	3287	753	83	1321
Musical-instrument tailpiece-----	R. E. Lackner-----	602,337	Apr. 12	1295	287	83	261
Musical instruments. Adjustable take-up music-roll for mechanical-----	R. W. Pain-----	601,162	Mar. 22	2718	625	82	1790
Musical instruments. Device for attaching music-rolls to mechanical-----	R. W. Pain-----	601,161	Mar. 22	2716	625	82	1789
Musical instruments. Finger-guide for-----	P. Marcuson-----	602,862	Apr. 26	2206	500	83	464
Musical instruments. Means for tuning-----	F. L. George-----	613,900	Nov. 8	1202	275	85	866
Musical instruments. Sectional pneumatic action for-----	J. P. Tirrell-----	612,597	Oct. 18	1770	418	85	363
Musical instruments. Winding-up and operating mechanism for automatic playing devices for-----	M. Clark-----	616,077	Dec. 20	1564	365	85	1747
Musical notation-----	C. C. Guilford-----	608,771	Aug. 9	1073	247	84	885
Musical stringed instrument-----	H. Müller-----	609,897	Aug. 30	3189	747 748	84	1935
Musical-stringed-instrument tuning device-----	E. Wettengel-----	609,715	Aug. 23	2883	674	84	1261
Musk. Making artificial-----	C. Schmid-----	602,961	Apr. 26	2385		83	498
Mustache-guard-----	W. T. Iams-----	600,152	Mar. 8	1017	228	82	1433
Mustache-protector-----	C. H. Venter-----	615,008	Nov. 29	3216	740	85	1301
Mute for stringed instruments-----	H. Paris-----	611,183	Sept. 20	1871	432	84	1837
Mutoscope-----	H. Casler-----	614,367	Nov. 15	2031	469	85	1046
Myrioscope. Automatic-----	A. Peterson-----	606,236	June 28	2237	514	83	1832
Myrioscope. Panoramic-----	A. Peterson-----	607,073	July 12	819	179	84	178
Myrioscope. Panoramic-----	A. Peterson-----	607,074	July 12	821	179	84	179
Nail-assorting mechanism-----	B. F. Mayo-----	607,939	July 26	2619	556	84	560
Nail-assorting mechanism-----	B. F. Mayo-----	607,940	July 26	2621	556	84	560
Nail-assorting mechanism-----	B. F. Mayo-----	607,941	July 26	2623	556	84	561
Nail-assorting mechanism-----	B. F. Mayo-----	607,942	July 26	2624	557	84	561
Nail-driving machine-----	C. M. Green-----	611,214	Sept. 20	1930	445 446 447	84	1847
Nail-driving-machine box-----	C. M. Barnard-----	614,782	Nov. 22	2777	635	85	1200
Nail-extractor-----	J. M. Le Roy and M. D. Converse-----	610,860	Sept. 6	421	91	84	1520
Nail-extractor-----	J. A. Leland-----	612,853	Oct. 25	2267	541	85	477
Nail holder and starter-----	L. W. Dexter-----	612,833	Oct. 25	2237	535	85	471
Nail-machine-----	J. A. Staples and C. Bush-----	602,024	Apr. 5	752	162	83	142
Nail machine. Wire-----	G. W. Angell-----	604,203	May 17	1795	404	83	999
Nail-making machine-----	J. C. Richardson-----	602,566	Apr. 19	1678	381 382	83	348
Nail-making machine-----	E. Walton and F. Macke-----	604,553	May 24	2455	558	83	1141
Nail or slug strip-----	S. M. Cutter-----	610,475	Sept. 6	624	140	84	1553
Nail-puller-----	F. F. Chancey-----	611,103	Sept. 20	1731	397	84	1810
Nail-puller-----	C. F. Doeblor-----	600,122	Mar. 1	964	213	82	1406
Nail-puller-----	W. Pearce and G. Walker-----	616,803	Dec. 27	2960	690	85	2043
Nail-setting machine-----	A. M. Simmons-----	602,275	Apr. 12	1190	261	83	239
Nail. String-----	G. Goddu-----	599,933	Mar. 1	487	110	82	1306
Nails. Method of and apparatus for cement-coating and packing-----	I. Copeland-----	601,314	Mar. 29	3035	683 684	82	1877
Nailing apparatus-----	M. Brock-----	601,941	Apr. 5	629	132	83	118
Nailing apparatus. Hand-----	M. Brock-----	601,942	Apr. 5	633	132	83	118
Nailing-jack-----	J. Courser-----	599,994	Mar. 1	579	133	82	1322
Nailing-machine-----	W. B. Brady-----	597,097	Jan. 11	1132	267 268	82	237
Nailing-machine-----	E. T. Freeman-----	607,924	July 26	2593	550 551	84	555
Nailing-machine-----	E. T. Freeman-----	615,481	Dec. 6	494	114 115	85	1507
Nailing-machine-----	H. W. Morgan-----	596,902	Jan. 4	774	182 183	82	151
Nailing machine. Cleat-----	W. S. Doig-----	600,685	Mar. 15	1939	441 442	82	1627
Nailing machine. Shingle-----	C. J. Lonning-----	610,943	Sept. 20	1432	329	84	1753
Nailing-machine throat-----	E. Kempshall-----	599,078	Feb. 15	1717	408	82	964
Nailing-machine work-support-----	L. A. Casgrain-----	606,045	June 21	1866	430	83	1741
Napkin ring and holder-----	J. S. and W. W. Hoagland-----	598,870	Feb. 8	1356	327	82	877
Napkin ring and holder-----	D. J. Rhodes-----	612,529	Oct. 18	1640	391	85	340
Napkin ring and holder. Combined-----	G. Kroker-----	605,487	June 14	792	181 182	83	1525
Napping-machine-----	E. McCreary-----	606,731	July 5	167	37, 38	84	34
Necktie-----	C. W. T. Davies-----	605,947	June 21	1676	383	83	1708
Necktie-----	C. W. T. Davies-----	615,813	Dec. 13	1087	255	85	1638
Necktie-----	S. E. Guild-----	599,177	Feb. 15	1884	446	82	993
Necktie-----	G. Kraus-----	600,539	Mar. 15	1698	389	82	1582
Necktie-fastener-----	H. W. Buehler-----	604,365	May 24	2110	474	83	1076
Necktie-fastener-----	A. H. Buell-----	601,011	Mar. 22	2486	565	82	1744



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Necktie-fastener	F. J. Callaghan	616,822	Dec. 27	2985	695	85	2048
Necktie-fastener	W. E. Catlin	606,122	June 21	2011	460	83	1770
Necktie-fastener	B. H. Holmes	604,048	May 17	1499	337	83	942
Necktie-fastener	I. H. Mallin	603,236	Apr. 26	2847	649	83	585
Necktie-fastener	Y. D. Scales	600,295	Mar. 8	1250	285	82	1477
Necktie-fastener	C. E. Smith	596,552	Jan. 4	160	36	82	33
Necktie-holder	F. H. Maxam	602,562	Apr. 19	1673	380	83	347
Necktie-holder	D. D. Wadsworth	600,815	Mar. 15	2147	490	82	1667
Necktie-retainer	J. A. Flomerfelt	599,326	Feb. 22	2158	512	82	1068
Neckties and collars to shirts. Means for fastening.	C. E. Sipp	605,262	June 7	396	89	83	1427
Needle	E. H. Thompson	609,712	Aug. 23	2879	673	84	1260
Needle-bath	E. Hammann and L. M. Hooper	598,987	Feb. 15	1573	373	82	935
Needle-case	G. J. Kramer and L. B. Cartter	597,004	Jan. 11	961	228	82	203
Needle-grooving machine	P. M. Beers	609,223	Aug. 16	1978	470	84	1068
Needle. Puncture-repair	E. P. McAllister	606,570	June 28	2855	658	83	1956
Needle. Split	E. Strain	603,822	May 10	1049	234	83	821
Needle. Tagging	F. M. Johnson	604,759	May 31	2821	644	83	1231
Needle-threader	A. L. McLaren	597,086	Jan. 11	1114	262	82	233
Needle-threader	W. A. Northup	597,735	Jan. 25	2200	513	82	478
Nest-box for henneries	A. J. Silberstein	605,979	June 21	1738	399	83	1720
Nest. Hen's	M. S. Barnes	611,884	Oct. 4	508	123	85	101
Net canopy. Mosquito-	R. W. Ivy	614,473	Nov. 22	2242	514	85	1100
Net. Leg fly-	C. Sandford	612,633	Oct. 18	1854	439	85	379
Net-lifting machine	W. F. Ahearn	608,631	Aug. 9	830	192	84	837
Net-making machine	K. V. Karlander	597,909	Jan. 25	2502	584 585 586	82	535
Net. Trawl-	J. W. Pearson	611,931	Oct. 4	584	141	85	115
Newspaper-binder	W. Leopold	600,541	Mar. 15	1700	389	82	1583
Newspaper folding and stapling machine	L. C. Crowell	612,829	Oct. 25	2213	525 526 527	85	468
Newspaper folding and wrapping machine	F. Waite and J. Saville	601,741	Apr. 5	230	45, 46	83	44
Newspaper-holder	C. H. Hastings	615,849	Dec. 13	1142	267	85	1649
Newspaper-holder, &c	E. Y. Horder	616,330	Dec. 20	2071	483	85	1849
Newspaper or book protector	W. H. Burland	607,339	July 12	1322	282	84	273
Newspapers against resale. Means for protecting	L. C. Crowell	602,896	Apr. 26	2255	513 514	83	473
Nickel from nickel-carbonyl. Process of and apparatus for obtaining	L. Mond	606,843	July 5	392	83, 84	84	78
Nickel from nickel ores. Extracting	T. Storer	603,797	May 10	1000	-----	83	812
Nicotine. Method of and apparatus for extracting	J. U. Lloyd	597,804	Jan. 25	2334	545	82	503
Nigger-bar cushion-stop	H. G. Dittbenner	608,975	Aug. 9	1481	350	84	960
Nipple-forming machine	A. I. Jacobs	611,634	Oct. 4	71	17, 18	85	16
Nipple-holder and support therefor	A. M. Shurtleff	597,513	Jan. 18	1834	424	82	391
Nitrate and making same. Compound	E. A. Starke	599,743	Mar. 1	120	-----	82	1239
Nitrocellulose Purifying	J. H. Stevens	605,931	June 21	1640	-----	83	1702
Non-conducting covering	R. H. Martin	616,479	Dec. 27	2359	548	85	1927
Noodle-cutter	B. J. Neuenschwander	610,275	Sept. 6	255	54	84	1492
Noodle-cutting machine	E. V. Brake	616,449	Dec. 27	2287	533	85	1913
Noria	R. F. Gray	601,957	Apr. 5	656	138	83	123
Nostril-protector	T. Carence	598,467	Feb. 1	680	166	82	731
Note-reading device. Vocal and instrumental	E. G. Wickersham	605,157	June 7	182	45	83	1385
Note-sheet	E. Malke	598,323	Feb. 1	447	107	82	687
Nozzle	A. W. Joy	598,873	Feb. 8	1360	328	82	878
Nozzle	H. Nicholsburg	605,049	May 31	3298	757	83	1324
Nozzle	J. Wright	616,757	Dec. 27	2879	667	85	2026
Nozzle. Adjustable hydraulic	A. B. Eastwood	609,578	Aug. 23	2624	614	84	1211
Nozzle. Automatic distributing	J. H. Judge	599,846	Mar. 1	322	72	82	1273
Nozzle. Automatic distributing	J. W. Suetterle	610,926	Sept. 20	1400	321	84	1747
Nozzle for fires, lawns, &c. Universal	J. T. and P. F. Glazier	608,192	Aug. 2	46	11, 12	84	664
Nozzle. Rotary	H. H. Gorter	600,198	Mar. 8	1088	246	82	1447
Nozzle. Rotary deluge-	C. L. Newcomb	616,200	Dec. 20	1826	422	85	1800
Nozzle. Shut-off	W. F. Cunningham	615,434	Dec. 6	405	97	85	1492
Nozzle. Spraying-	J. and R. Bean	604,873	May 31	3010	691	83	1268
Nozzle. Spraying-	C. S. Dolley and M. O. Rehfuß	600,193	Mar. 8	1083	245	82	1446
Nozzle. Water-	H. F. Neumeyer and J. F. Young	614,883	Nov. 29	2977	683	85	1253
Nozzle. Water-pipe or hose	E. G. Odonnell	603,487	May 3	444	99	83	687
Nursery-gate	P. Motley	604,411	May 24	2185	489	83	1094
Nursery-gate	P. Motley	610,193	Sept. 6	75	16	84	1455
Nut	R. R. Parrish	605,450	June 7	738	167	83	1495
Nut and bolt clipper. Combined	G. S. Noel	598,954	Feb. 15	1513	360	82	924
Nut and bolt lock	J. G. Venable	610,777	Sept. 13	1148	263	84	1680
Nut and bolt lock and washer. Combined	J. A. Lombas	597,293	Jan. 11	1432	336	82	294
Nut and nut-lock	H. A. Hutson	605,578	June 14	939	219	83	1554
Nut and pipe wrench	J. H. Fitzgerald	601,015	Mar. 22	2490	566	82	1745
Nut and pipe wrench. Combined	O. Larson and C. Branzell	601,970	Apr. 5	674	142	83	127
Nut and pipe wrench. Combined	L. N. Leonard	599,001	Feb. 15	1592	378	82	939
Nut. Axle-	T. Kirchoff	601,264	Mar. 29	2917	664	82	1854
Nut. Bolt-	W. H. Butler	602,724	Apr. 19	1963	446	83	402
Nut-lock	W. C. Althen	599,980	Mar. 1	557	129	82	1319
Nut-lock	E. Ashman	611,550	Sept. 27	2590	597	84	1991
Nut-lock	S. C. Ball	612,228	Oct. 11	1121	269	85	229
Nut-lock	N. Baughn	602,715	Apr. 19	1952	443	83	400
Nut-lock	G. E. Benton	605,811	June 14	1383	317	83	1635
Nut-lock	F. Binn	606,328	June 28	2411	559	83	1868
Nut-lock	J. Brengman	602,891	Apr. 26	2247	511	83	471
Nut-lock	J. T. Bridges	612,478	Oct. 18	1566	375	85	325
Nut-lock	W. Buffington	597,260	Jan. 11	1387	324	82	285
Nut-lock	W. J. Calvert	599,764	Mar. 1	160	39	82	1246
Nut-lock	W. H. Carruthers	614,835	Nov. 29	2373	661	85	1233
Nut-lock	W. E. Caylor	599,385	Feb. 22	2279	598	82	1091
Nut-lock	S. Chambers	615,139	Nov. 29	3467	795	85	1348
Nut-lock	L. M. Chapman and J. M. Gelatt	607,585	July 19	1949	405	84	415
Nut-lock	C. H., Jr., and J. F. Charlton	605,078	June 7	17	6	83	1356
Nut-lock	J. F. Collins	601,430	Mar. 29	3224	727	82	1913



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Nut-lock	T. Craddock	598,302	Feb. 1	415	98	82	680
Nut-lock	J. M. Cullen	609,084	Aug. 16	1702	405	84	1016
Nut-lock	P. Curran	605,859	June 21	1507	345	83	1676
Nut-lock	A. Deadman	599,690	Mar. 1	24	6	82	1221
Nut-lock	C. A. Detwiler	607,163	July 12	991	214	84	208
Nut-lock	C. M. Dissosway	612,235	Oct. 11	1136	272	85	232
Nut-lock	J. Doran	605,861	June 21	1509	346	83	1677
Nut-lock	A. D. Dunlavy	600,308	Mar. 8	1268	289	82	1481
Nut-lock	D. W. Durbin and H. L. Crum	612,490	Oct. 18	1584	378	85	329
Nut-lock	G. H. Dye	599,554	Feb. 22	2601	610	82	1153
Nut-lock	C. Eberhart	597,638	Jan. 18	2029	474	82	430
Nut-lock	J. H. Eckart	603,324	May 3	140	33	83	629
Nut-lock	J. H. Eckart	607,025	July 12	698	151	84	158
Nut-lock	B. Edgar	602,233	Apr. 12	1118	246	83	225
Nut-lock	B. Edgar	602,394	Apr. 12	1392	312	83	280
Nut-lock	E. J. Estey	611,572	Sept. 27	2636	608	84	1999
Nut-lock	F. Feltgen	601,463	Mar. 29	3281	741	82	1923
Nut-lock	J. C. Ferguson	602,619	Apr. 19	1775	405	83	366
Nut-lock	G. S. Foster	598,920	Feb. 15	1446	347	82	910
Nut-lock	J. N. Gardner	607,741	July 19	2213	468	84	465
Nut-lock	W. A. Garrigus and R. Golling	604,114	May 17	1633	366	83	967
Nut-lock	H. Geise	601,249	Mar. 29	2893	659	82	1850
Nut-lock	B. J. Gillies	611,838	Oct. 4	431	103	85	86
Nut-lock	H. L. Hannaford	613,035	Oct. 25	2550	606	85	534
Nut-lock	C. E. Harling	611,479	Sept. 27	2464	567	84	1966
Nut-lock	J. Harris	601,889	Apr. 5	512	106	83	96
Nut-lock	S. O. Haskins	599,448	Feb. 22	2409	566	82	1117
Nut-lock	J. W. Himes	613,630	Nov. 1	729	170	85	756
Nut-lock	R. Hines	616,103	Dec. 20	1629	381	85	1761
Nut-lock	D. Hogan	599,783	Mar. 1	188	47	82	1251
Nut-lock	A. L. Holmes and J. H. Campbell	610,679	Sept. 13	968	224	84	1644
Nut-lock	J. R. Horn	610,446	Sept. 6	570	126	84	1548
Nut-lock	O. Horner and W. H. Wise	611,201	Sept. 20	1903	439	84	1842
Nut-lock	I. Hosier	606,145	June 21	2056	471	83	1778
Nut-lock	J. M. Inskip	613,040	Oct. 25	2563	608	85	536
Nut-lock	W. A. Jackson	608,777	Aug. 9	1080	248	84	886
Nut-lock	F. O. Johnson	605,788	June 14	1343	307	83	1627
Nut-lock	S. W. Johnson	596,517	Jan. 4	102	23	82	22
Nut-lock	J. O. and C. D. Kafader	608,607	Aug. 9	785	180	84	830
Nut-lock	P. B. Kenyon	603,819	May 10	1045	233	83	821
Nut-lock	J. Kirkwood	608,872	Aug. 9	1287	300	84	923
Nut-lock	C. E. Laraway	610,815	Sept. 13	1218	281	84	1695
Nut-lock	J. D. Mathews and E. B. Horner	612,046	Oct. 11	815	200	85	170
Nut-lock	J. J. McArdle	615,877	Dec. 13	1177	275	85	1655
Nut-lock	C. J. McCue	603,534	May 3	546	120	83	706
Nut-lock	W. B. Metcalf, Jr.	607,622	July 19	2017	419	84	428
Nut-lock	C. Miller	611,815	Oct. 4	387	93	85	77
Nut-lock	D. Mitchell	597,119	Jan. 11	1165	274	82	243
Nut-lock	M. A. Murphy	597,823	Jan. 25	2360	551	82	508
Nut-lock	W. H. Nesbitt	610,879	Sept. 13	1329	304	84	1719
Nut-lock	G. C. Nickols	600,232	Mar. 8	1140	260	82	1457
Nut-lock	O. A. Norlund and W. B. Clark	597,218	Jan. 11	1322	308	82	272
Nut-lock	C. D. O'Neil and A. S. Beaty	600,648	Mar. 15	1860	425	82	1613
Nut-lock	M. B. Parker	611,930	Oct. 4	583	141	85	115
Nut-lock	R. S. Parks and J. F. Shelley	597,737	Jan. 25	2203	514	82	479
Nut-lock	J. P. Peck	597,324	Jan. 11	1490	348	82	307
Nut-lock	W. T. Pendley and C. C. Fincher	610,878	Sept. 13	1328	304	84	1718
Nut-lock	J. A. Pennington	609,521	Aug. 23	2524	590	84	1193
Nut-lock	W. C. Perkins	599,250	Feb. 15	2001	475	82	1015
Nut-lock	H. B. Perry	611,022	Sept. 20	1582	363	84	1781
Nut-lock	P. D. Plain	613,776	Nov. 8	990	226	85	825
Nut-lock	W. H. Putnam	613,777	Nov. 8	991	226	85	825
Nut-lock	N. Ratchford	611,976	Oct. 4	662	160	85	129
Nut-lock	J. A. Rausch	609,241	Aug. 16	2017	478	84	1077
Nut-lock	J. A. Richard	613,077	Oct. 25	2629	622	85	550
Nut-lock	R. G. Rider	598,114	Feb. 1	74	17	82	617
Nut-lock	J. Rohlin	606,582	June 28	2874	662	83	1959
Nut-lock	J. B. Sargent	603,050	Apr. 26	2523	573	83	523
Nut-lock	J. C. Sattes	615,367	Dec. 6	274	63	85	1466
Nut-lock	W. Scherer	598,747	Feb. 8	1164	279	82	840
Nut-lock	H. D. Smart	600,748	Mar. 15	2045	467	82	1648
Nut-lock	B. B. Smith	611,847	Oct. 4	447	106	85	90
Nut-lock	H. E. Stagman and H. C. Jones	602,919	Apr. 26	2306	525	83	482
Nut-lock	F. G. Stark	600,097	Mar. 1	864	199	82	1383
Nut-lock	W. W. Sweigart	606,253	June 28	2279	526	83	1842
Nut-lock	W. W. Sweigart	614,672	Nov. 22	2592	589	85	1162
Nut-lock	C. M. Swisher	608,162	July 26	3009	647	84	638
Nut-lock	S. W. Telford	601,688	Apr. 5	118	23	83	25
Nut-lock	H. A. Thomasson	603,347	May 3	181	41	83	637
Nut-lock	J. R. Thurmond	601,915	Apr. 5	562	116	83	107
Nut-lock	J. F. Titus	603,670	May 10	787	173	83	770
Nut-lock	T. B. Wall	612,370	Oct. 11	1378	334	85	276
Nut-lock	L. C. Werner	612,884	Oct. 25	2326	553 } 554 }	85	488
Nut-lock	W. C. White	610,838	Sept. 13	1253	289	84	1702
Nut-lock	B. Woodall and T. E. Orr	602,549	Apr. 19	1656	376	83	344
Nut-lock	W. H. Worst and C. W. Hart	607,725	July 19	2186	461	84	460
Nut-lock	A. S. Wright	602,120	Apr. 12	917	200	83	186
Nut-lock	C. D. Wright	608,743	Aug. 9	1027	236	84	876
Nut-lock	J. Wurthner	606,109	June 21	1990	457	83	1767
Nut. Lock	B. Edgar	602,232	Apr. 12	1118	245	83	225
Nut. Lock	H. F. Gardner and F. J. Benscoter	603,683	May 10	804	177	83	774
Nut. Lock	E. A. Goddin	609,144	Aug. 16	1829	433	84	1039
Nut. Lock	C. W. Hubbard	597,982	Jan. 25	2635	616	82	562
Nut-lock, Weighted	E. D. Boasso	609,325	Aug. 16	2170	513	84	1107
Nut-locking device	A. Howard	616,419	Dec. 20	2238	522	85	1882



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Nut plate-lock	J. M. Matter	600,157	Mar. 8	1024	230	82	1434
Nut-tapping machine	J. A. Costello	606,645	July 5	15	3	84	5
Nut-tapping machine	G. Weiss	604,447	May 24	2249	505 506	83	1106
Nut-tapping machines. Feeding device for	G. Weiss	611,302	Sept. 27	2120	489 490	84	1903
Nut-threading machine	F. A. Meischner	614,567	Nov. 22	2390	546	85	1127
Nut-wrench	H. L. Butler	602,054	Apr. 12	804	174	83	164
Nut-wrench	W. Heffner	608,120	July 26	2936	629	84	625
Nut-wrench	A. Hopkins	596,777	Jan. 4	572	131	82	110
Nut-wrench	M. W. Lowe	599,715	Mar. 1	69	16	82	1229
Nut wrench. Axle-	E. P. Conway	606,047	June 21	1869	431	83	1742
Nut wrench. Axle-	D. Warner	613,613	Nov. 1	703	162	85	750
Nuts from bolts. Machine for removing	W. E. Schmick	599,260	Feb. 15	2015	478	82	1018
Oar. Bow-facing	T. H. Brosnihan	601,601	May 24	2537	578	83	1158
Oar. Bow-facing	A. Dalmer	603,398	May 3	266	59	83	651
Oar. Bow-facing	A. C. Dice	597,399	Jan. 18	1629	379	82	351
Oar. Bow-facing	N. W. Edwards	612,025	Oct. 11	773	191	85	162
Oar. Bow-facing	T. Lucier	611,497	Sept. 27	2496	576	84	1972
Oar-lock	G. Boak and E. A. Erickson	598,847	Feb. 8	1315	318	82	870
Oar-lock	J. Dean	612,488	Oct. 18	1582	378	85	328
Oar-lock	J. A. McGinley	611,436	Sept. 27	2389	548	84	1951
Obstetrical apparatus	C. S. Smith	608,083	July 26	2876	616	84	613
Oculists' trial-frame	O. T. May	610,817	Sept. 13	1221	281	84	1695
Office-indicator	T. B. Floyd	606,055	June 21	1885	434	83	1746
Office-indicator	L. Gearhart and G. N. Markle	598,673	Feb. 8	1043	251	82	817
Office-indicator	J. A. Leighton	599,657	Feb. 22	2810	653	82	1196
Office-indicator	C. and O. Moore and D. R. Oliver	615,568	Dec. 6	653	150	85	1539
Office-indicator	J. H. Slater	598,163	Feb. 1	151	35	82	631
Office-indicator	C. Smith	600,095	Mar. 1	859	198	82	1383
Oil and water separator	J. C. Glenn	616,661	Dec. 27	2706	629	85	1991
Oil, &c. Apparatus for dispensing	A. Haye	604,321	May 17	2013	451	83	1041
Oil-box cellar and dust-guard	J. M. Scrogin and H. C. Womelsdorff	606,686	July 5	92	20	84	20
Oil-burner	C. Ball	600,485	Mar. 8	1565	360	82	1536
Oil-burner	A. J. Blackford	607,641	July 19	2051	427	84	435
Oil-burner	L. J. Campbell	607,422	July 19	1482	315	84	319
Oil-burner	O. Damon	600,409	Mar. 8	1432	327	82	1513
Oil-burner	E. W. Dunn	614,296	Nov. 15	1894	437 438	85	1020
Oil-burner	J. C. Dupee	614,801	Nov. 22	2812	645	85	1206
Oil-burner	F. E. Feeron	613,131	Oct. 25	2709	640	85	566
Oil-burner	E. A. Greenleaf	600,612	Mar. 15	1807	414 415	82	1602
Oil-burner	J. Johnston	606,784	July 5	286	59	84	57
Oil-burner	A. W. Shank	608,009	July 26	2758	586	84	590
Oil-burner	D. C. Wilgus	614,194	Nov. 15	1693	389	85	983
Oil burner. Crude-	C. H. Myers	612,118	Oct. 11	939	227	85	194
Oil-burner. Retort	G. H. Larkin	609,552	Aug. 23	2572	603	84	1201
Oil-burning apparatus	W. H. Wheeler	598,667	Feb. 8	1032	249	82	815
Oil by water-pressure. Means for raising	E. Stretch	606,432	June 28	2614	603	83	1908
Oil-can	H. C. Atkinson	604,184	May 17	1763	397	83	993
Oil-can	W. R. Goodwin	604,386	May 24	2137	480	83	1084
Oil-can	A. C. Hersberger	615,171	Nov. 29	3530	811	85	1360
Oil-can	A. C. Hougland	614,720	Nov. 22	2680	610	85	1179
Oil-can	J. W. Jackson	599,389	Feb. 22	2289	540	82	1093
Oil-can	L. Martin	601,797	Apr. 5	332	67	83	63
Oil-can and ejecting device	J. A. House	598,993	Feb. 15	1582	375	82	937
Oil can and pump	J. A. Kendall and J. B. Kester	611,328	Sept. 27	2167	501	84	1912
Oil-can and support	R. Thompson	599,027	Feb. 15	1644	389	82	949
Oil-carrying shell. Explosive	R. A. Hammond	600,581	Mar. 15	1766	403	82	1594
Oil-cloth-stock reel	G. Arrowsmith	614,048	Nov. 8	1430	329	85	912
Oil-cup	B. M. W. Hanson	612,036	Oct. 11	794	196	85	166
Oil-cup	J. Macphail	609,204	Aug. 16	1930	459	84	1057
Oil-cup	E. McCoy	614,307	Nov. 15	1911	441	85	1023
Oil-cup	W. L. Morris	609,111	Aug. 16	1779	423	84	1028
Oil-cup	O. Pound	607,456	July 19	1540	327	84	329
Oil-cup	W. W. Tucker	596,639	Jan. 4	321	69	82	63
Oil-cup	W. S. Wilson	598,044	Jan. 25	2729	637	82	579
Oil-distributing apparatus	J. H. Nichol	604,479	May 24	2316	525 526	83	1117
Oil-extracting apparatus	R. B. Hardman	607,367	July 12	1367	291 292	84	281
Oil-extracting apparatus	F. L. Potterf	615,104	Nov. 29	3413	783	85	1337
Oil-extracting apparatus	F. N. Turney	614,039	Nov. 8	1419	325	85	909
Oil-extracting apparatus	G. E. Wright and W. Monk	599,280	Feb. 15	2051	486 487 488	82	1025
Oil-extractor	H. Ten Winkel	612,791	Oct. 18	2137	507	85	434
Oil-extractor and feed-water purifier and heater	A. Collier	604,370	May 24	2115	475	83	1080
Oil fabrics. Making	C. J. Grist	596,872	Jan. 4	729	82	82	142
Oil from seeds. Extracting	A. Euston	616,228	Dec. 20	1885	435	85	1812
Oil-hole cover or cap	F. D. Winkley	608,243	Aug. 2	132	33	84	681
Oil-hole cover or cap	F. D. Winkley	608,244	Aug. 2	134	33	84	681
Oil in manufacturing gas and lubricating-oil. Process of and apparatus for treating crude	J. M. Bailey	607,417	July 19	1467	311	84	317
Oil or gas engine	W. F. Trotter	603,297	May 3	88	22	83	618
Oil or similar motor	C. A. Lefebvre	614,114	Nov. 15	1563	357	85	958
Oil-press mat	W. F. Hanse	611,316	Sept. 27	2147	496	84	1908
Oil-receptacle	C. and W. E. Winters	600,327	Mar. 8	1298	297	82	1487
Oil-refining apparatus	J. C. Henderson	606,783	July 5	285	58	84	57
Oil-retaining box	S. Salmon	607,279	July 12	1220	261	84	252
Oil-tank. Cabinet	W. A. Sexton	616,591	Dec. 27	2556	591	85	1962
Oil-tanks. Automatic cut-off for	N. Guyer, J. P. Kelly, and A. Kissell	603,985	May 10	1329	305	83	875
Oil-wagon tank	G. W. Gooding	598,599	Feb. 8	911	218	82	794
Oils and fats. Treating	W. G. Day and R. M. Glacken	604,307	May 17	1991	447	83	1037
Oils. Desulfurizing refractory	O. P. Amend	601,331	Mar. 29	3062	82	1882	



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Oils. Method of and apparatus for purifying crude.	M. Shively	613,728	Nov. 8	909	208	85	809
Oils or fats. Apparatus for treating	C. G. Hepburn	610,812	Sept. 13	1212	279	84	1694
Oils. Process of and apparatus for refining	J. Davidson and C. G. Hepburn	614,293	Nov. 15	1890	280	85	1019
Oils. Purifying and refining California petroleum.	E. A. Starke	597,920	Jan. 25	2517	437	82	538
Oiler.	J. Lines	605,321	June 7	501	111	83	1448
Oiler.	P. J. Tormay	613,337	Nov. 1	203	45	85	656
Oiler for shafts of pressure-blowers	T. W. Green	601,649	Apr. 5	45	9	83	10
Oiler. Stock.	W. A. Jenkins	613,150	Oct. 25	2737	646	85	571
Oiling device	J. S. Scarborough	606,303	June 28	2360	546	83	1858
Oiling device	J. H. Stonemetz	598,122	Feb. 1	86	20	82	619
Oiling-nozzle closure.	F. P. Noera	610,557	Sept. 13	776	176	84	1603
Oiling vehicle-axles. Device for	C. T. Moorman	614,254	Nov. 15	1830	423	85	1007
Ointment-base and making same.	F. W. Klever	608,612	Aug. 9	793		84	831
Oliver	J. Jacks	600,201	Mar. 8	1092	247		
					248	82	1448
					249		
Oliver	W. J. Raiza and A. Souther	616,488	Dec. 27	2383	552	85	1931
Opera-chair	T. S. Wells	599,430	Feb. 22	2380	559	82	1112
Opera-chair attachment	M. L. Scattaglia	599,797	Mar. 1	208	51	82	1254
Opera-chair. Folding	O. L. Story	612,634	Oct. 18	1855	439	85	379
Optical instrument	H. H. Hill	607,171	July 12	1008	219	84	212
Optical instruments. Adjustable support for	E. B. Meyrowitz	603,148	Apr. 26	2703	613	83	559
Optician's instrument for adjusting spectacles	S. W. Gray	610,301	Sept. 6	309	67	84	1501
Optometer	T. B. Jebb	614,110	Nov. 15	1549	355	85	956
Order-holder	E. A. Trussell	604,095	May 17	1594	358	83	959
Ordinance. Breech-loading	H. S. Baldwin	614,821	Nov. 29	2850	656	85	1229
					657		
Ordinance. Breech-loading	A. T. Dawson and G. T. Buckham	601,129	Mar. 22	2665	608	82	1779
Ordinance. Breech-loading	V. C. Tasker	599,482	Feb. 22	2470	609	82	1128
Ordinance. Breech-loading	D. Vickers and G. T. Buckham	602,785	Apr. 19	2061	581	83	421
					467		
					468		
Ordinance breech mechanism	M. A. Lynch and W. I. Hough	604,665	May 24	2637	604	83	1177
					605		
					606		
Ordinance breech mechanism	J. W. Stockett	601,176	Mar. 22	2750	632	82	1705
Ordinance breech mechanism	J. W. Stockett	601,177	Mar. 22	2753	632	82	1795
Ordinance. Electric firing device for	A. T. Dawson and G. T. Buckham	615,814	Dec. 13	1087	255	85	1650
Ordinance. Firing mechanism for breech-loading	D. Vickers, A. T. Dawson, and G. T. Buckham.	610,110	Aug. 30	3552	823	84	1407
Ordinance. Method of and apparatus for firing pneumatic	L. W. Bates	605,841	June 21	1462	824	83	1608
					335		
Ordinance. Pneumatic	D. M. Mefford	614,878	Nov. 29	2966	681	85	1251
Ore-concentrator	S. I. Hallett	609,804	Aug. 30	3028	709	84	1303
Ore-concentrator	S. I. Hallett	614,322	Nov. 15	1953	451	85	1031
Ore-concentrator	D. D. Lord	612,742	Oct. 18	2035	483	85	413
					484		
Ore-concentrator	W. E. Mendenhall	604,061	May 17	1530	344	83	947
					345		
Ore-concentrator	C. J. Paine	597,617	Jan. 18	1997	465	82	424
Ore-concentrator	E. M. Rich	604,920	May 31	3092	710	83	1284
Ore-concentrator	F. Soper	600,096	Mar. 1	862	198	82	1383
Ore-concentrator	W. E. Wild	607,389	July 12	1410	301	84	290
					302		
Ore concentrator and slimer. Combined	F. W. Harlow	606,138	June 21	2041	467	83	1775
					468		
Ore-concentrator or placer-mining machine	S. H. Brown and R. S. Steely	615,424	Dec. 6	392	94	85	1489
Ore-drier	T. R. Jordan	613,518	Nov. 1	552	125	85	720
Ore-feeder.	U. S. James	606,971	July 5	577	127	84	114
Ore granulator and pulverizer	J. M. Montgomery	608,700	Aug. 9	955	219	84	863
					220		
Ore reducing and separating mechanism	P. J. Lonergan	614,401	Nov. 15	2096	482	85	1058
					483		
Ore roasting and drying apparatus	P. Argall	612,185	Oct. 11	1047	251	85	215
					252		
Ore-roasting furnace	H. F. Brown	607,420	July 19	1472	311	84	318
					312		
					313		
Ore-roasting furnace	J. P. Calnan	613,117	Oct. 25	2687	635	85	561
					636		
Ore-roasting furnace	L. D. Godshall	598,084	Feb. 1	25	6	82	608
Ore-roasting furnace	H. Harlan	602,400	Apr. 12	1407	317	83	283
Ore-roasting furnace	H. Wehrum	597,628	Jan. 18	2013	469	82	427
					470		
Ore-roasting furnace	H. Wehrum	597,629	Jan. 18	2016	470	82	427
					471		
Ore-separator	A. W. Patterson	601,815	Apr. 5	366	76	83	69
Ore-separator. Centrifugal	J. J. Link	612,503	Oct. 18	1599	382	85	331
Ore-separator. Magnetic	G. J. Crean	607,984	July 26	2696	575	84	575
Ore-separator. Magnetic	L. G. Rowand	596,719	Jan. 4	468	107	82	91
Ore-separator. Magnetic	L. G. Rowand	596,720	Jan. 4	470	107	82	91
Ore-sorter	J. Ancel	602,250	Apr. 12	1148	252	83	231
Ore stirring and agitating machine	J. T. Hutson	599,843	Mar. 1	317	71	82	1273
Ore-tailings. Process of and apparatus for treating	J. Poole	611,935	Oct. 4	590	142	85	116
					143		
Ore-treating furnace	J. J. Storer, F. Martin, and G. O. Eaton.	613,828	Nov. 8	1082	246	85	842
Ore-vessel trimming attachment	W. H. Mack	613,906	Nov. 8	1209	276	85	867
					106		
Ore-washer	L. J. Mytinger	615,459	Dec. 6	453	107	85	1500
Ores and products. Treatment of metalliferous	E. A. Ashcroft	600,351	Mar. 8	1337	306	82	1495
Ores, &c. Apparatus for treating	T. Craney	615,968	Dec. 13	1363	319	85	1691
Ores. Apparatus for treating auriferous or other	J. W. H. James and T. R. Jordan	606,670	July 5	64	13	84	15



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Ores. Apparatus for treating auriferous or other	T. R. Jordan	613,767	Nov. 8	974	223	85	822
Ores. Apparatus for treating refractory	J. E. Preston	610,917	Sept. 20	1390	318	84	1745
Ores by electricity. Process of and apparatus for separating metals and by-products from	G. D. Burton	614,927	Nov. 29	3060	703	85	1270
Ores by electricity. Process of and apparatus for separating metals from	G. D. Burton	614,930	Nov. 29	3069	704	85	1271
Ores containing gold, silver, or copper. Treating	A. Etard	601,640	Apr. 5	28	-----	83	7
Ores. Method of and apparatus for reducing and separating	R. A. Stewart	601,533	Mar. 29	3397	770	82	1948
Ores. Method of and apparatus for treating	J. G. McNulty	614,572	Nov. 22	2401	548	85	1129
Ores. Process of and apparatus for roasting and separating	W. M. Morgan and F. E. Parker	605,001	May 31	3209	549	83	1307
Ores. Treating complex	J. Armstrong	607,817	July 26	2382	739	84	516
Ores. Treating metallic	S. C. C. Currie	604,167	May 17	1721	740	83	981
Organ	V. Anderson	598,311	Feb. 1	426	101	82	683
Organ	J. E. Davis	605,404	June 7	669	148	83	1481
Organ-action	J. H. Odell	609,291	Aug. 16	2109	500	84	1095
Organ-action	J. Slawik	599,199	Feb. 15	1917	453	82	998
Organ-bellows	R. J. Bennett	616,221	Dec. 20	1865	431	85	1807
Organ coupler. Pneumatic	M. Clark	606,175	June 21	2106	432	83	1788
Organ coupler. Pneumatic	M. Clark	606,444	June 28	2632	484	83	1911
Organ fluid-motor. Pipe	T. H. Wyke	609,133	Aug. 16	1806	605	84	1034
Organ foot. Pipe	F. McCollum	608,704	Aug. 9	961	430	84	865
Organ. Pipe	E. M. Skinner. (Reissue)	11,669	June 14	1443	221	83	1646
Organ. Pneumatic	M. Clark	602,936	Apr. 26	2344	331	83	491
Organ. Pneumatic	M. Clark	603,127	Apr. 26	2668	332	83	552
Organ. Reed	R. J. Bennett	599,439	Feb. 22	2393	605	82	1114
Organ. Reed	W. S. Moses	604,070	May 17	1546	562	83	950
Organ. Self-playing	J. H. Chase	608,252	Aug. 2	145	563	84	683
Organ solo attachment	S. Howard	596,510	Jan. 4	87	347	82	19
Organ transposing action	E. B. Thorin	606,748	July 5	212	348	84	44
Organ. Tubular pneumatic	J. Neef	609,362	Aug. 16	2226	526	84	1118
Organs having electrical air-pumps. Regulator for	L. K. Fuller	601,318	Mar. 29	3042	527	82	1878
Ornamental ring	L. E. Sadler	611,004	Sept. 20	1548	685	84	1774
Ornamenting surfaces	J. M. Ribert	608,224	Aug. 2	100	356	84	675
Orthopedic appliance	A. H. Hamel and A. N. Hibbert	604,044	May 17	1492	25	83	940
Orthotoluenesulfo-chlorid. Purifying	W. Majert	603,195	Apr. 26	2776	335	83	572
Oscillating meter	R. A. Thayer and E. Everett	606,601	June 28	2910	-----	83	1965
Oven. Bake	H. A. Schoregge	614,898	Nov. 29	3003	673	85	1258
Oven. Baker's	J. M. Fischer	610,648	Sept. 13	922	688	84	1635
Oven. Baker's	W. Neuhs	605,900	June 21	1576	689	83	1691
Oven. Baker's	W. Neuhs	608,068	July 26	2858	611	84	609
Oven. Baker's	C. Oberfeld and P. Braunbeck	614,746	Nov. 22	2722	620	85	1189
Oven. Baker's	E. A. C. Petersen	601,586	Mar. 29	3474	621	82	1964
Oven. Baker's	A. Rauber	611,394	Sept. 27	2308	792	84	1937
Oven. Baker's	W. E. Stoeffler	609,919	Aug. 30	3224	532	84	1342
Oven. Baking	D. Grove	614,463	Nov. 22	2214	755	85	1094
Oven. Baking	G. R. Moon	598,570	Feb. 8	864	509	82	785
Oven. Combination	J. H. Kugler	613,043	Oct. 25	2566	207	85	537
Oven. Domestic	S. A. Hazlewood	611,684	Oct. 4	160	609	85	34
Oven-door	R. S. Chadwick and F. Clarke	611,770	Oct. 4	305	73	85	63
Oven door and light. Baker's	C. W. Kolb	598,941	Feb. 15	1484	85	82	917
Oven-door balance	J. A. Roe	614,765	Nov. 22	2755	354	85	1195
Oven. Electric	L. E. Custer	596,696	Jan. 4	431	629	82	85
Overalls	C. G. Smith	605,236	June 7	330	98	83	1414
Overalls, leggings, trousers, &c. Attachment for	C. W. Thies	600,936	Mar. 22	2356	76.77	83	1720
Overcheck-bit	G. G. Blane	602,299	Apr. 12	1238	535	82	249
Overhead switch	W. N. Carlisle	610,641	Sept. 13	913	272	84	1633
Overlay	J. S. Rice and F. W. Beittenmiller	604,266	May 17	1910	209	83	1021
Overlay and making it	J. Humphrey and B. F. Upham	597,677	Jan. 18	2102	427	82	442
Overshoe	S. E. Dittman	611,681	Oct. 4	155	492	85	33
Overshoe attachment	L. E. Campbell	604,367	May 24	2112	38	83	1080
Overshoe-fastener	A. L. Rickman	598,816	Feb. 8	1265	474	82	860
Overshoe-holder	J. C. Gillam	606,201	June 28	2155	307	83	1816
Overshoe-holder	A. B. Smith	612,530	Oct. 18	1641	494	85	340
Oxidizing-machine	J. T. Unangst	614,040	Nov. 8	1421	392	85	910
Oxycamphor and making it	W. H. Tillson	607,493	July 19	1784	325	84	386
Oxydiamidodiphenyl and making same	R. Meyer	609,360	Aug. 16	2223	526	84	1117
Oxyethylacetanilid	O. Manasse	610,361	Sept. 6	423	-----	84	1520
Oxyphenyl-guanidin and making same	P. Jacobson and H. Tigges	604,049	May 17	1500	-----	83	942
Oysters. Propagation of	O. Klimmek	606,288	June 28	2337	-----	83	1853
Ozone-manufacturing apparatus	B. R. Seifert	605,977	June 21	1734	-----	83	1719
Ozone or ozonized air. Apparatus for producing	A. B. Hendryx	611,199	Sept. 20	1902	498	84	1842
Ozone. Producing	E. Andreoli	607,007	July 12	669	145	84	153
Ozone-producing apparatus	A. Verley	597,517	Jan. 18	1838	425	82	392
Ozonizing apparatus	F. K. Irving	596,936	Jan. 4	837	198	82	162
Pack and sled. Combined	M. Otto	599,455	Feb. 22	2418	568	82	1119
Package	A. S. Ramage	614,500	Nov. 22	2286	569	85	1107
Package. Air-tight	J. J. Erb	604,523	May 24	2395	524	83	1130
Package. Grocer's caddy. Convertible shipping	H. A. De Kay	597,395	Jan. 18	1624	544	82	350
Package-carrier	F. W. Forster	596,677	Jan. 4	387	378	82	77
Package-filling, weighing, and assorting machine	C. Toohey	615,324	Dec. 6	172	45	85	1446
Package for holding liquor	J. E. Stowell	613,733	Nov. 8	917	210	85	811
	A. Stearns	603,413	May 3	292	65,66	83	656
	G. H. Ricke	616,012	Dec. 13	1449	339	85	1708



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Package. Germ-proof.	W. M. Kinnard	616,472	Dec. 27	2350	546	85	1925
Package-handle.	A. W. Ottignon	606,936	July 5	526	115	84	105
Package-making machine	D. J. Campbell	616,452	Dec. 27	2294	535 536 537	85	1913
Package. Sealed	O. S. Fellows	597,109	Jan. 11	1148	271	82	240
Package. Sealed	W. B. Thomson	616,037	Dec. 13	1492	349	85	1717
Package. Shipping	E. Norton	602,466	Apr. 19	1517	346	83	318
Packaging-machine.	H. E. Smyser	609,472	Aug. 23	2433	569 570	84	1175
Packing and lubricating compound	C. L. Swayze	601,180	Mar. 22	2760		82	1797
Packing-box.	P. I. Jacoby	601,568	Mar. 29	3446	783	82	1959
Packing-box.	B. Kochs	601,571	Mar. 29	3450	784	82	1959
Packing-box.	C. C. Mengel	615,294	Dec. 6	132	35	85	1438
Packing-box.	N. G. Sørensen	602,276	Apr. 12	1191	262	83	239
Packing-box. Tobacco or other.	G. F. Speaker	596,635	Jan. 4	314	68	82	62
Packing-case	T. J. Craven	611,059	Sept. 20	1643	376	84	1792
Packing-case	J. P. Wendt	609,642	Aug. 23	2767	645	84	1238
Packing composition. Steam-	F. E. Hall	597,357	Jan. 11	1548		82	318
Packing for pipe-joints, &c	A. B. Bates	613,053	Oct. 25	2592	614	85	542
Packing for piston-rods. Metallic	W. Harbinger	612,493	Oct. 18	1587	379	85	329
Packing for pump-pistons	F. Van den Bosch	612,687	Oct. 18	1944	460	85	396
Packing for valve-stems	J. H. Maurer	611,386	Sept. 27	2294	530	84	1934
Packing. Gasket	R. Walsh	608,939	Aug. 9	1422	335	84	948
Packing. Metallic	J. T. N. Angell	609,752	Aug. 23	2934	686	84	1271
Packing. Metallic	J. Badeker	606,638	July 5	2	1	84	3
Packing. Metallic	J. W. Dudley	616,867	Dec. 27	3127	724	85	2076
Packing. Metallic	N. Jessup	604,474	May 24	2309	524	83	1116
Packing. Metallic	W. H. Prendergast	603,736	May 10	888	198	83	790
Packing. Metallic	F. F. Swain	598,123	Feb. 1	87	20	82	619
Packing. Metallic	F. F. Swain	613,734	Nov. 8	918	210	85	811
Packing. Pipe-joint	J. C. Henderson	606,662	July 5	44	10	84	11
Packing. Piston	J. Airey	612,223	Oct. 11	1113	267	85	228
Packing. Piston	J. M. Anthony	600,350	Mar. 8	1336	306	82	1494
Packing. Piston	J. and R. Derbyshire	608,184	Aug. 2	28	7	84	660
Packing. Piston	J. W. Kennedy	611,433	Sept. 27	2384		84	1950
Packing. Piston	F. H. Ramsdell	607,077	July 12	826	180 181	84	179
Packing. Piston-rod	H. Dods	600,576	Mar. 15	1756	401	82	1592
Packing. Piston-rod	J. W. Dudley	601,614	Mar. 29	3518	802	82	1972
Packing. Piston-rod	P. J. Gorman	596,585	Jan. 4	219	48	82	44
Packing-receptacle	J. S. Keys	613,520	Nov. 1	554	125	85	720
Packing-ring	S. F. Field and W. T. Heck	603,376	May 3	225	50	83	644
Packing-ring	J. S. Raworth	615,902	Dec. 13	1225	287	85	1664
Packing. Rod	T. H. Holmes	602,328	Apr. 12	1281	284	83	258
Packing. Steam	C. L. Ireson	607,244	July 12	1153		84	238
Packing. Steam	C. H. Merwarth	605,891	June 21	1564	360	83	1689
Packing. Steam-engine rod	C. Longstreth	603,588	May 3	627	139 140	83	723
Pad:							
See Buffing-pad.	Inking-pad.						
Coat-pad.	Pneumatic pad.						
Firearm cheek-pad.	Shoulder-pad.						
Harness-pad.	Stamp-pad.						
Hoof-pad.	Step-pad.						
Horseshoe-pad.	Truss-pad.						
Pad-holder	E. G. Tebbutt	597,034	Jan. 11	1003	237	82	211
Pad-holder	E. G. Tebbutt	597,035	Jan. 11	1005	237	82	212
Pad-moistener and letter-press. Combined	W. A. Vancanon	608,733	Aug. 9	1014	232	84	873
Paddle-wheel	J. S. Terrell	611,293	Sept. 27	2107	485	84	1901
Paddle-wheel. Feathering	D. Abbott	611,007	Sept. 20	1554	358	84	1776
Paddle-wheel. Steamboat	L. Q. C. Magee	604,256	May 17	1887	423	83	1016
Padlock	C. H. Bridgen	604,577	May 24	2499	568	83	1150
Padlock	J. Murphy	605,740	June 14	1238	286	83	1608
Padlock	F. Soley	601,085	Mar. 22	2595	592	82	1766
Padlock	F. Soley	601,086	Mar. 22	2596	592	82	1766
Padlock	F. Soley	601,087	Mar. 22	2598	592	82	1766
Padlock	H. G. Voight	600,627	Mar. 15	1832	420	82	1607
Padlock	H. G. Voight	614,312	Nov. 15	1917	442	85	1025
Padlock. Alarm	E. N. Case	607,831	July 26	2409	512	84	521
Padlock. Permutation	C. C. A. Bauercamper	598,971	Feb. 15	1545	367	82	929
Padlock. Permutation	F. W. Bradley	601,034	Mar. 22	2519	573	82	1750
Padlock. Permutation	A. W. Brode	598,974	Feb. 15	1551	368	82	930
Padlock. Permutation	J. R. Brodie	615,525	Dec. 6	579	132	85	1524
Padlock. Permutation	O. C. Hines	597,980	Jan. 25	2632	615	82	561
Padlock. Permutation	C. House	613,065	Oct. 25	2611	618	85	547
Padlock. Permutation	I. M. Johnson	596,596	Jan. 4	248	55	82	49
Padlock. Permutation	M. Le Vino	605,493	June 14	803	185	83	1527
Padlock. Permutation	R. B. H. Leighton	612,359	Oct. 11	1358	329	85	272
Padlock. Permutation	J. A. L. Snyder	603,711	May 10	847	188	83	782
Padlock. Permutation	G. W. Stanley	611,982	Oct. 4	671	163	85	131
Padlock. Permutation	A. B. Steen	601,801	Apr. 5	336	68	83	63
Padlock. Permutation	W. F. Wible	610,424	Sept. 6	535	118	84	1541
Padlock. Permutation	G. E. Woodward	616,647	Dec. 27	2673	619 620	85	1984
Pail, &c	A. Burgland	601,702	Apr. 5	135	27	83	29
Pail	J. Danz, 2d	597,051	Jan 11	1040	246	82	218
Pail and package	G. J. Record	604,078	May 17	1566	350	83	954
Pail. Dinner	G. Gants	608,591	Aug. 9	756	174	84	825
Pail. Dinner	Y. W. Rogers	607,084	July 12	854	185	84	184
Pail-hook	C. W. Mitchell	606,469	June 28	2671	615	83	1919
Pail. Milk	E. S. Cave	607,393	July 12	1416	303	84	291
Pail. Milk	C. R. McKinstry	604,176	May 17	1749	394	83	991
Pail. Miner's dinner	J. Elmgren	614,940	Nov. 29	3101	712	85	1279
Pail. Oyster	J. M. Shartle	610,001	Aug. 30	3388	785	84	1373
Pail rest. Milk-	J. C. Vollmer, Jr	602,531	Apr. 19	1626	371	83	339



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pails. Cover-locking handle for	S. Walter	599,082	Feb. 15	1721	409	82	965
Paint	C. E. Anthony	616,047	Dec. 13	1514		85	1721
Paint	A. T. Hall	597,770	Jan. 25	2257		82	489
Paint	J. W. Lowman and N. M. Gage	614,403	Nov. 15	2099		85	1059
Paint	D. F. Lucas	615,079	Nov. 29	3371		85	1328
Paint	T. Stephenson	601,910	Apr. 5	556		83	106
Paint-agitator	C. A. Brown	616,052	Dec. 13	1519	355	85	1722
Paint and varnish from surfaces. Device for cleaning	B. F. Aiken	606,907	July 5	487	105	84	97
Paint and varnish. Removing	A. W. Barnard and W. E. Butler	608,948	Aug. 9	1435	338	84	951
Paint-bucket. Combination	H. G. Thompson	606,100	June 21	1972	453	83	1763
Paint-distributor	W. Quinn	609,047	Aug. 16	1646	392	84	1006
Paint. Enamel	G. W. N. Hamilton	614,050	Nov. 8	1433		85	912
Paint. Making	C. D. Ismay	609,936	Aug. 30	3255	760	84	1347
Paint-mixer	J. G. Jeffers	616,191	Dec. 20	1814	419	85	1797
Paint-pigment	A. B. Kittson and A. B. Browne	602,163	Apr. 12	1007		83	203
Paint-pot hook and brush-holder	C. F. Spencer	604,549	May 24	2449	556	83	1140
Painter. Pole	P. W. Meinecke	615,627	Dec. 6	758	175	85	1562
Painter's roof-bracket	M. Mattson	612,256	Oct. 11	1185	284	85	240
Painting	H. M. Evans	608,589	Aug. 9	754	173	84	824
Painting	J. Wissmann	602,533	Apr. 19	1630		83	339
Paintings. Producing copies of oil	G. Mora	603,533	May 3	545		83	706
Paintings. Protecting oil	A. Kreitmayr	613,011	Oct. 25	2519	600	85	528
Palette	E. A. Bofinger	616,286	Dec. 20	1991	463	85	1833
Pan:							
See Amalgamating-pan. Frying-pan.							
Bake-pan. Pie-pan.							
Baking-pan. Roasting-pan.							
Baking or roasting pan. Salt-pan.							
Bed-pan. Saucepan.							
Dust-pan. Stew-pan.							
Evaporating-pan. Vacuum-pan.							
Pan-handle	W. E. Tubbs	606,904	July 5	483	104	84	96
Pan lid. Frying	H. A. Bowers	612,513	Oct. 18	1614	385	85	334
Pan-lifter	A. Hautsch	602,324	Apr. 12	1275	282	83	257
Panel	A. R. Lordly	603,147	Apr. 26	2701	613	83	559
Panel. Ornamental	F. Furness	613,625	Nov. 1	722	168	85	754
Panel-work. Construction of	W. T. Sears	612,366	Oct. 11	1373	332	85	275
Paper and compound used to enamel same. Enamelled	F. G. Annison	601,927	Apr. 5	578		83	110
Paper, &c. Apparatus for coating	C. C. Macbrair	606,869	July 5	436	93	84	86
Paper. Apparatus for making yarn or thread from	E. Claviez	604,350	May 17	2077	465	83	1053
Paper-applying device. Wall-	T. Carter	609,008	Aug. 16	1563	372	84	991
					480		
					481		
Paper assembling and stapling machine	T. C. Dexter	602,816	Apr. 19	2128	482	83	433
					483		
					484		
					485		
Paper bag	W. E. Bunker	599,219	Feb. 15	1949	462	82	1006
Paper-bag bottoms. Mechanism for pasting	W. Carter	611,055	Sept. 20	1637	374	84	1791
Paper-bag cabinet	P. F. Mauer	602,032	Apr. 5	770	166	83	146
Paper-bag closure	J. P. Raymond	598,440	Feb. 1	639	157	82	724
Paper-bag fastener	A. B. Thomas	612,998	Oct. 25	2498	595	85	524
Paper-bag-folding machine	H. E. Westervelt	599,752	Mar. 1	134	31, 32	82	1241
Paper-bag holder	H. F. Eicher	600,145	Mar. 8	1005	224	82	1431
Paper-bag holder	W. J. Nagle	615,736	Dec. 13	948	220	85	1611
Paper-bag machine	E. E. Claussen	598,497	Feb. 8	730	176	82	758
					177		
					178		
					599		
Paper-bag machine	C. V. Crist	616,605	Dec. 27	2584	600	85	1967
					601		
Paper-bag machine	G. Mortson	614,123	Nov. 15	1576	360	85	961
					361		
Paper barrel	J. Van Develde	614,218	Nov. 15	1745	401	85	993
Paper-board-making machine	A. W. Case	598,241	Feb. 1	235	67	82	658
Paper box	G. A. Bisler	610,255	Sept. 6	206	46	84	1482
Paper box	R. P. Brown	610,522	Sept. 13	713	162	84	1592
Paper box	F. B. Davidson	609,266	Aug. 16	2066	490	84	1086
					491		
Paper box	E. Finch	604,031	May 17	1471	329	83	936
Paper box	F. Knobloch	606,671	July 5	66	14	84	15
Paper box	F. Knobloch	616,473	Dec. 27	2352	546	85	1925
Paper box	H. S. Munson	602,664	Apr. 19	1868	425	83	384
Paper box	P. B. Myers	610,364	Sept. 6	427	92	84	1521
Paper box	H. F. Smith	610,950	Sept. 20	1448	332	84	1756
Paper box	F. C. Stettler	598,032	Jan. 25	2714	634	82	576
Paper-box-covering machine	M. F. Wilson	599,885	Mar. 1	400	89	82	1289
Paper-box form. Folding-	F. W. Wilcox	615,417	Dec. 6	380	90	85	1487
Paper-box machine	C. M. Holcomb	611,252	Sept. 27	2012	464	84	1882
					465		
Paper-box machine	J. W. Low	603,471	May 3	407	91, 92	83	679
Paper-box-machine plunger	C. M. Holcomb	611,431	Sept. 27	2381	547	84	1949
Paper-box machines. Adjustable form for	F. G. Hotchkiss	616,236	Dec. 20	1911	442	85	1817
Paper-box-making machine	P. A. Cartier	606,916	July 5	499	109	84	99
					110		
Paper-box-making machine	C. H. Palmer and J. W. Denmead	602,140	Apr. 12	948	207	83	191
					208		
Paper-box-making machine	J. H. Russell	604,546	May 24	2441	554	83	1138
					555		
Paper cabinet. Toilet-	J. N. Moehn	602,995	Apr. 26	2439	556	83	507
Paper clip or holder	M. P. Schooley	601,384	Mar. 29	3144	709	82	1897



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Paper-coating-machine attachment .....	W. H. Waldron .....	615,929	Dec. 13	1290	300	85	1676
Paper-cutter .....	P. Dillon .....	608,549	Aug. 2	668	151 152	84	788
Paper-cutter .....	R. Pierce .....	612,120	Oct. 11	945	228	85	195
Paper-cutter clamp-coupling device .....	C. Seybold .....	597,069	Jan. 11	1075	254	82	225
Paper-cutter hand-clamp .....	C. Seybold .....	597,070	Jan. 11	1077	254	82	226
Paper cutter. Toilet .....	J. Hoberg, Sr. ....	604,150	May 17	1693	381	83	978
Paper cutting and delivering apparatus. Toilet .....	H. F. Haviland .....	613,923	Nov. 8	1235	281	85	872
Paper cutting and folding machine .....	E. H. and C. P. Cottrell .....	604,004	May 10	1415	316 317 318	83	896
Paper cutting and winding machine .....	F. Meisel .....	610,329	Sept. 6	360	76, 77	84	1510
Paper-cutting knife. Rotary .....	W. C. Miles .....	610,144	Aug. 30	3608	838	84	1419
Paper-cutting machine .....	J. F. McNutt .....	616,801	Dec. 27	2954	689 690	85	2041
Paper-cutting machine .....	H. L. Sanborn .....	600,338	Mar. 8	1318	301	82	1491
Paper-cutting machine .....	S. Smith .....	602,882	Apr. 26	2233	505 506	83	469
Paper-cutting-machine knife .....	T. F. McCoy .....	596,530	Jan. 4	121	27	82	25
Paper-cutting machine. Rotary .....	D. S. Clark .....	612,703	Oct. 18	1969	467 468	85	401
Paper-cutting shears .....	A. H. Morrison .....	609,622	Aug. 23	2725	635	84	1230
Paper decoration .....	R. Burger .....	603,619	May 10	697	155	83	752
Paper-delivering device .....	G. F. Howe .....	601,144	Mar. 22	2690	618	82	1784
Paper-drying apparatus .....	G. J. Burns .....	602,799	Apr. 19	2099	474	83	427
Paper-embossing machines. Automatic stop attachment for .....	J. A. Prince .....	615,900	Dec. 13	1222	286	85	1664
Paper-enameling apparatus .....	G. W. A. Fitz George and H. J. Brown .....	597,405	Jan. 18	1638	381	82	352
Paper-fastener .....	S. Tucker .....	614,520	Nov. 22	2314	530	85	1112
Paper fastener and hanger .....	P. J. A. Smith .....	600,559	Mar. 15	1726	394	82	1587
Paper feeding and folding machine .....	E. P. Sheldon .....	612,957	Oct. 25	2433	580	85	510
Paper-feeding device .....	F. Schilz .....	607,958	July 26	2649	563 564	84	565
Paper-feeding machine .....	J. M. Blaisdell .....	604,892	May 31	3035	697	83	1273
Paper-feeding machine .....	T. A. Briggs .....	609,954	Aug. 30	3291	767 768	84	1356
Paper-feeding machine .....	T. A. Briggs and F. L. Cross .....	613,793	Nov. 8	1020	232 233 234	85	831
Paper-feeding machine .....	T. C. Dexter .....	605,088	June 7	33	11, 12	83	1359
Paper-feeding machine .....	T. C. Dexter .....	605,089	June 7	37	12, 13	83	1360
Paper-feeding machine .....	E. M. Jillson .....	609,437	Aug. 23	2360	556	84	1162
Paper-feeding machine .....	C. D. Mattison .....	600,736	Mar. 15	2025	461 462 463	82	1644
Paper-feeding machine .....	J. F. McNutt .....	605,328	June 7	511	114	83	1450
Paper-feeding machine .....	R. Miehle and J. W. Mansfield .....	606,975	July 5	584	129	84	116
Paper-feeding machine .....	J. H. Russell .....	600,844	Mar. 15	2197	502 503 480	82	1677
Paper-feeding machine .....	J. H. Russell .....	611,282	Sept. 27	2086	481	84	1897
Paper-feeding-machine sheet-separating device .....	J. J. Parker .....	615,889	Dec. 13	1203	281	85	1660
Paper-feeding-machine sheet-separating device .....	J. C. Willetts .....	616,043	Dec. 13	1502	351	85	1719
Paper-feeding-machine sheet-separator .....	T. C. Dexter .....	615,817	Dec. 13	1092	256	85	1639
Paper fixture. Toilet .....	E. B. Weston .....	597,231	Jan. 11	1342	313	82	276
Paper-folding device. Toilet .....	W. E. Coombs .....	602,595	Apr. 19	1732	394	83	357
Paper-folding machine .....	T. C. Dexter .....	596,807	Jan. 4	620	142 143	82	119
Paper-folding machine .....	T. C. Dexter .....	608,843	Aug. 9	1243	290	84	915
Paper-folding machine .....	C. S. Evans .....	597,461	Jan. 18	1749	404 405	82	373
Paper-folding machine .....	H. K. King .....	602,390	Apr. 26	2430	554	83	506
Paper-folding machine .....	H. K. King .....	612,245	Oct. 11	1153	277 278 279	85	235
Paper-folding machine .....	H. K. King .....	612,246	Oct. 11	1162	280 281	85	236
Paper from webs into sheets. Machine for cutting .....	F. Meisel .....	601,200	Mar. 22	2794	639	82	1803
Paper-hanging machine .....	P. R. Cross .....	611,895	Oct. 4	526	127	85	104
Paper-holder .....	G. H. Kent .....	602,186	Apr. 12	1050	229	83	211
Paper holder. Roll .....	J. Spillinger .....	599,646	Feb. 22	2784	647	82	1190
Paper-holding device .....	J. W. Bush .....	603,316	May 3	119	28	83	625
Paper-machine .....	B. Eilers .....	608,849	Aug. 9	1255	292	84	917
Paper. Machine for applying gum or glue to surfaces of webs of .....	H. A. Frambach .....	596,966	Jan. 4	890	209 210	82	173
Paper. Machine for blending colors on wall .....	J. McCoy .....	596,905	Jan. 4	777	183 184	82	152
Paper-making machine .....	D. B. McMurray .....	610,493	Sept. 6	666	149	84	1567
Paper-making machine .....	S. N. Miller .....	603,197	Apr. 26	2778	633	83	572
Paper-making machine .....	P. Priem .....	616,423	Dec. 20	2246	523	85	1884
Paper-making machine .....	T. H. Savery .....	611,420	Sept. 27	2353	542	84	1946
Paper-making machine .....	T. H. Savery .....	611,421	Sept. 27	2358	542	84	1946
Paper-making machine .....	T. H. Savery .....	611,422	Sept. 27	2362	543	84	1946
Paper-making-machine apron-board .....	P. D. Taylor .....	598,400	Feb. 1	557	136	82	708
Paper-making-machine cleansing apparatus .....	W. H. Millsbaugh .....	596,939	Jan. 4	845	199	82	165
Paper-making-machine cleansing apparatus .....	W. H. Millsbaugh .....	596,940	Jan. 4	847	199	82	165
Paper-making-machine cleansing apparatus .....	W. H. Millsbaugh .....	596,941	Jan. 4	849	200	82	165
Paper-making-machine cleansing apparatus .....	J. M. Stratton .....	596,950	Jan. 4	862	202	82	168
Paper-making-machine wire-guide .....	J. W. Moore and J. A. White .....	613,588	Nov. 1	663	152	85	742
Paper-making machines. Driving of .....	S. Milne .....	615,192	Nov. 29	3563	820	85	1366
Paper-making machines. Pulp-strainer for .....	A. L. Westwood .....	607,312	July 12	1269	270 271	84	262
Paper-making machines. Rotary suction-box for .....	J. W. Grant .....	614,714	Nov. 22	2667	608	85	1176
Paper-making machinery .....	W. W. Wells .....	611,303	Sept. 27	2124	490	84	1904



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. 50	Vol.	Page.
Paper, &c. Mechanism for separately removing sheets of	J. H. Knowles	601,266	Mar. 29	2919	665 666 667	82	1855
Paper or other machines. Lath-carrying device for wall-	J. H. Suydam, Sr.	602,375	Apr. 12	1356	303	83	273
Paper. Ornamental or fancy	W. Hohenstein	612,241	Oct. 11	1148	276	85	234
Paper. Oval holder for toilet	J. N. Moehn	604,774	May 31	2845	650	83	1235
Paper packages. Supporting device for toilet	E. B. Weston	597,230	Jan. 11	1341	313	82	276
Paper pail	W. G. Haas	616,868	Dec. 27	3128	724	85	2076
Paper pail or vessel	F. N. Aull	612,637	Oct. 18	1859	440	85	380
Paper pails. Machine for making	E. C. Westervelt	613,541	Nov. 1	583	134	85	727
Paper-perforating machine	F. W. Hedgeland	599,560	Feb. 22	2613	613	82	1156
Paper plant-box	J. T. Craw	607,346	July 12	1331	285	84	275
Paper-pulp. Means for removing foreign substances from	S. W. Simpson	608,305	Aug. 2	235	54	84	702
Paper-pulp. Revolving screen for	H. L. Kutter	612,424	Oct. 18	1470	355 356	85	307
Paper-pulp screen	E. W. Goodrick	611,901	Oct. 4	534	130	85	106
Paper-pulp screen	H. E. Tidmarsh	613,948	Nov. 8	1276	289	85	880
Paper-registering machine	T. C. Dexter	602,898	Apr. 26	2260	514 515 516	83	474
Paper-registering machine	T. C. Dexter and J. J. Parker	605,275	June 7	417	94	83	1431
Paper-roll core	J. J. Moran and S. E. Smith	612,910	Oct. 25	2363	563	85	495
Paper-roll holder	W. H. Clarke	609,228	Aug. 16	1991	472	84	1071
Paper-serving machine	C. Fisher	604,113	May 17	1630	366	83	966
Paper sheets. Machine for dampening	C. Hess and H. R. Hutchins	598,628	Feb. 8	967	233	82	804
Paper-shifting gripper	T. C. Dexter	599,319	Feb. 22	2142	508 509	82	1065
Paper-stock refiner	J. H. Baker, G. F. Shevlin, and F. H. Baker.	614,316	Nov. 15	1929	445	85	1027
Paper thread. Making	E. Claviez	604,349	May 17	2075	464 465	83	1053
Paper. Toilet-	E. N. Cummings	598,315	Feb. 1	435	104	82	684
Paper. Toilet-	R. Scholich	616,739	Dec. 27	2854	662	85	2021
Paper. Toilet-	S. Wheeler	607,498	July 19	1791	372	84	387
Paper toothpicks. Machine for making	M. Purdin	596,714	Jan. 4	458	104	82	89
Paper-trimmer	N. A. Ridgely	609,213	Aug. 16	1957	464	84	1063
Paper-trimming machine. Wall-	J. M. Brady	602,253	Apr. 12	1153	253	83	232
Paper-tube-forming machine	F. S. Barus	606,402	June 28	2551	591	83	1893
Paper-tube-making machine	F. Schoettle	604,090	May 17	1587	356 357	83	958
Paper-tube-refolding machine	H. R. Corkhill, Jr	605,053	May 31	3305	759	83	1325
Paper vessel	W. M. Kinnard	615,716	Dec. 13	909	211 212	85	1604
Paper vessel	W. M. Kinnard	616,471	Dec. 27	2348	545 546	85	1925
Paper vessel	J. J. Lanzit	608,687	Aug. 9	934	215	84	860
Paper. Waterproof	A. Herzheim	602,558	Apr. 19	1669	457	83	346
Paper webs. Device for punching	J. West	599,207	Feb. 15	1932	458	82	1002
Paper-weight and pencil-sharpener. Combined	G. W. Beebe	597,370	Jan. 11	1577	367	82	324
Paper. Wrapping and package-containing	H. Blackman, H. Cone, and B. J. Neill.	611,373	Sept. 27	2268	524	84	1930
Parachute	C. C. Frost	604,976	May 31	3169	730	83	1299
Paramidophenol. Making salts of	I. Roos	602,109	Apr. 12	900	658 659	83	183
Parcel-carrier	D. J. McCarthy	606,571	June 28	2857	658 659	83	1956
Parcel-carrier. Self-folding	F. S. Root	607,277	July 12	1218	200	84	252
Parcel-elevator	A. S. Hecht	607,850	July 26	2455	521	84	529
Parcel handle or carrier	J. Pusey	609,946	Aug. 30	3276	764	84	1352
Parer, corer, and divider. Apple	W. B. Lloyd	597,487	Jan. 18	1793	415	82	382
Paris-green, &c. Machine for spreading	W. E. Everitt	609,337	Aug. 16	2191	517	84	1111
Partition-frame	W. F. Kearns	603,402	May 3	272	61	83	652
Partition. Metallic	G. Fugman	601,873	Apr. 5	490	101	83	91
Pasteboard boxes. Machine for manufacturing	J. Binder	597,940	Jan. 25	2550	596 597 598	82	544
Paste-mold machine	L. H. Dolan	601,092	Mar. 22	2604	594	82	1767
Paster for wrappers, &c	J. and R. D. Simpson	601,594	Mar. 29	3486	795	82	1967
Pasteurizing and sterilizing milk, &c. Apparatus for	O. B. Schier	605,920	June 21	1621	373	83	1699
Pasteurizing apparatus	A. D. Hill	612,106	Oct. 11	918	223	85	190
Pastry-board	W. L. Stanley and P. C. Patterson	616,366	Dec. 20	2141	498	85	1863
Pattern. Adjustable skirt	A. A. Pinkham	602,471	Apr. 19	1529	347 348	83	321
Pattern-exhibitor	A. Peterson	606,235	June 28	2236	514	83	1831
Pattern fabric	E. G. Smith	601,595	Mar. 29	3488	795	82	1967
Patten for brushes for waxing floors	J. Durel and J. A. Drouard	599,495	Feb. 22	2498	587 588 589	82	1134
Pattern. Garment-drafting	M. Tucek	600,050	Mar. 1	766	174 175	82	1364
Pavement	R. J. Carson	598,670	Feb. 8	1037	250	82	816
Pavement. Asphaltic	C. Richardson	607,884	July 26	2522	84	84	541
Pavement. Reusing old asphalt	J. B. Robbins	616,014	Dec. 13	1451	85	85	1708
Pavements. Apparatus for repairing asphalt	W. G. MacKendrick	616,001	Dec. 13	1426	333	85	1703
Pavements. Construction of asphalt	J. L. Adams	616,759	Dec. 27	2881	667	85	2027
Pavements, floors, &c. Structure such as	V. and G. Jetley	598,631	Feb. 8	972	235	82	805
Pavements, roadways, &c. Composition of matter for	J. Johnson	599,506	Feb. 22	2518	82	82	1137
Pavements. Surface-finishing for asphalt or bituminous	W. E. Dennison	600,215	Mar. 8	1112	82	82	1452
Pawl-and-ratchet device	G. H. Hasey	614,470	Nov. 22	2238	513 462	85	1099
Pea-huller	H. G. Francis	597,609	Jan. 18	1987	463	82	422
Pea or bean separator	M. S. Hill	611,785	Oct. 4	333	80	85	68
Pea-separating machine	R. P. Scott and J. A. Chisholm	608,230	Aug. 2	110	28	84	676



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pea-shelling machine	J. H. Empson	604,377	May 24	2126	477	83	1083
Peach-pitting machine	G. E. Grier	596,935	Jan. 4	835	198	82	162
Peanut-heater	T. M. Walker	597,210	Jan. 11	1312	306	82	270
Peanut-vending case	C. O. Luce	604,994	May 31	3201	737	83	1305
Peat-blocks. Machine for manufacturing	A. A. Dickson	613,856	Nov. 8	1127	258 259	85	851
Peat, &c. Treatment of	R. F. Strong	607,528	July 19	1843	-----	84	397
Pedal	L. T. Cornell	611,355	Sept. 27	2219	513	84	1921
Pedal	T. Curley	596,743	Jan. 4	513	117	82	100
Pedal	T. Curley	611,773	Oct. 4	308	74	85	63
Pedal	D. L. M. McIntyre	598,325	Feb. 1	448	107	82	687
Pedal-action	W. H. Ivers	601,018	Mar. 22	2493	567	82	1745
Pedal-crank	H. M. Scheeren	610,923	Sept. 20	1397	320	84	1746
Pedal toe-clip	S. J. Putnam	600,170	Mar. 8	1047	236	82	1439
Pedestal. Folding	J. L. Erwin	608,659	Aug. 9	884	203	84	849
Peel. Baker's	C. Knebel	604,619	May 24	2564	585	83	1164
Pegging-machine	S. M. Cutter	612,487	Oct. 18	1580	377 378	85	328
Pegging-machine	E. Duplessis	616,699	Dec. 27	2782	647	85	2006
Pen	E. Kempshall	598,730	Feb. 8	1142	274	82	836
Pen and pencil box	J. Hudert	599,130	Feb. 15	1805	450	82	979
Pen and pencil holder	J. Dierks, (by judicial change of name now J. Bernard.)	604,026	May 17	1463	328	83	935
Pen. Drawing-	F. Lutterberg	602,165	Apr. 12	1009	221	83	203
Pen. Duplex	H. S. Breeden	611,050	Sept. 20	1629	372	84	1790
Pen. Duplex	D. M. Bye	600,511	Mar. 15	1642	374	82	1572
Pen. Electric searing-	H. Green	597,373	Jan. 11	1583	368	82	326
Pen. Fountain	D. W. Beaumel	603,463	May 3	396	89	83	677
Pen. Fountain	C. W. Boman	599,590	Feb. 22	2670	624	82	1166
Pen. Fountain	C. W. Boman	599,591	Feb. 22	2670	625	82	1167
Pen. Fountain	C. W. Boman	599,592	Feb. 22	2671	625	82	1167
Pen. Fountain	C. W. Boman	610,428	Sept. 6	542	119	84	1542
Pen. Fountain	F. C. Brown	612,013	Oct. 11	754	186	85	158
Pen. Fountain	W. P. Couper	602,829	Apr. 26	2158	489	83	455
Pen. Fountain	H. H. De France	599,691	Mar. 1	26	7	82	1221
Pen. Fountain	G. H. Means	610,818	Sept. 13	1223	282	84	1695
Pen. Fountain	G. S. Parker	606,231	June 28	2230	513	83	1830
Pen. Fountain	C. J. Renz	597,742	Jan. 25	2211	515	82	480
Pen. Fountain	H. J. Schulte	609,978	Aug. 30	3344	778	84	1365
Pen. Fountain	G. A. Spies	603,833	May 10	1079	241	83	825
Pen. Fountain	W. W. Stewart	614,630	Nov. 22	2519	574	85	1149
Pen. Fountain	L. E. Waterman	604,690	May 24	2687	615	83	1187
Pen. Fountain	L. E. Waterman	607,397	July 12	1420	304	84	291
Pen. Fountain	L. E. Waterman	607,398	July 12	1424	304	84	292
Pen. Fountain	L. E. Waterman	607,399	July 12	1425	304	84	292
Pen. Fountain	L. E. Waterman	607,400	July 12	1426	304 305	84	293
Pen. Fountain	L. E. Waterman	607,401	July 12	1431	305	84	293
Pen. Fountain	J. Weeks	605,035	May 31	3274	752	83	1319
Pen. Fountain	O. Winkler	605,804	June 14	1371	315	83	1633
Pen. Fountain marking-	G. A. Werner	600,299	Mar. 8	1256	287	82	1478
Penholder	W. Blend	597,942	Jan. 25	2563	598	82	547
Penholder	J. H. Campbell	607,213	July 12	1078	293	84	224
Penholder	S. Kraus	606,841	July 5	390	83	84	78
Penholder	W. H. Maultby	611,178	Sept. 20	1864	430	84	1835
Penholder	L. N. Thomas	599,749	Mar. 1	128	29	82	1240
Penholder	P. Wirsching	612,889	Oct. 25	2333	555	85	489
Penholder	G. D. Wobbe	615,007	Nov. 29	3221	741	85	1302
Penholder. Automatic pen-ejecting	W. J. Allen	615,125	Nov. 29	3449	791	85	1344
Penholder fountain attachment	C. J. Renz	606,360	June 28	2475	575	83	1879
Penholders or pencils. Holder for	W. Johnston, Jr	612,775	Oct. 18	2104	499	85	426
Pen or pencil lever for recorder	F. L. Wolfe	613,811	Nov. 8	1061	241	85	838
Pen-rack	H. S. Elworthy	612,237	Oct. 11	1139	273	85	232
Pen reservoir attachment	M. C. Worth	603,097	Apr. 26	2616	534	83	540
Pen wiper and cleaner	J. F. Mitchell	597,729	Jan. 25	2192	511	82	477
Pencil	F. H. Lippincott	613,453	Nov. 1	435	99	85	699
Pencil	F. W. Musson	612,431	Oct. 18	1483	358	85	309
Pencil	W. Painter	602,355	Apr. 12	1322	294	83	266
Pencil	H. H. Seaman	609,909	Aug. 30	3207	752	84	1339
Pencil	H. H. Seaman	609,910	Aug. 30	3210	752	84	1339
Pencil	B. H. Toquet	605,657	June 14	1102	254	83	1582
Pencil-box	S. Szenhak	613,432	Nov. 1	404	92	85	698
Pencil-case	W. Fischer	613,063	Oct. 25	2609	617	85	546
Pencil-case and comb-case. Combined	N. D. Ingram	605,674	June 14	1134	263	83	1589
Pencil-holder, &c	F. B. Foss	600,861	Mar. 22	2233	509	82	1697
Pencil-holder	O. R. Pihl	597,295	Jan. 11	1435	336	82	295
Pencil-holder	W. E. E. Smith	606,095	June 21	1962	451	83	1761
Pencil holder and sharpener	C. E. Cousy	608,182	Aug. 2	25	6	84	659
Pencil-holder, spectacle-case, &c. Combined	R. A. Haegelin	609,230	Aug. 16	1995	473	84	1072
Pencil. Lead-	F. H. Lippincott	613,452	Nov. 1	434	99	85	699
Pencil. Lead-	G. M. Seidel	607,708	July 19	2167	456	84	455
Pencil. Magazine lead-	B. B. Goldsmith	603,183	Apr. 26	2748	625 626	83	568
Pencil pocket-holder	J. L. Riley	607,766	July 19	2255	477	84	473
Pencil-retaining device	J. V. Dunphy	612,318	Oct. 11	1288	310	85	258
Pencil rubber attachment	W. P. Huffman	603,551	June 28	2823	650	83	1949
Pencil-sharpener	C. S. Cole and J. H. Kinsman	598,770	Feb. 8	1199	289	82	847
Pencil-sharpener	W. F. Garrett	597,643	Jan. 18	2039	476	82	432
Pencil-sharpener	J. H. Love	598,427	Feb. 1	624	153	82	721
Pencil-sharpener	S. D. Lincoln	600,542	Mar. 15	1701	389 390	82	1583
Pencil-sharpener	L. Stoecker	606,036	June 21	1849	426	83	1739
Pencil-sharpener. Duplex	I. Cory	604,731	May 31	2776	635	83	1223
Pencil-splicer	F. W. Warren	605,440	June 7	723	163	83	1492
Pencils, &c. Holder for	E. C. Lindley	599,616	Feb. 22	2720	636	82	1176
Pendulum. Compensating	E. K. Adams	606,753	July 5	223	48	84	45



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pendulum-escapement.....	F. Baginski.....	603,419	May 3	304	68	83	658
Pendulum-escapement.....	L. Erikson.....	602,635	Apr. 19	1807	412	83	372
Penstock and supply-pipe.....	F. M. F. Cazin.....	608,176	Aug. 2	13	4	84	657
Perambulator.....	W. H. English.....	606,451	June 28	2645	608	83	1913
Percussion-drill.....	J. P. Hartman.....	606,139	June 21	2045	468 469	83	1776
Perforating-machine.....	M. H. Merriam.....	610,746	Sept. 13	1077	248	84	1666
Perforating paper, &c. Machine for	A. Krah.....	609,682	Aug. 23	2830	661	84	1251
Perfumery. Apparatus for making	J. Lahmer.....	597,502	Jan. 18	1814	420	82	386
Permutation-lock.....	H. Bruck.....	599,596	Feb. 22	2683	627	82	1169
Permutation-lock.....	C. P. Chase.....	599,765	Mar. 1	161	39	82	1246
Permutation-lock.....	C. J. Haggstrom.....	612,335	Oct. 11	1317	318	85	264
Permutation-lock.....	C. J. Kintner.....	599,565	Feb. 22	2622	615	82	1158
Permutation-lock.....	R. B. H. Leighton.....	601,519	Mar. 29	3377	765	82	1944
Permutation-lock.....	J. H. Morris.....	601,975	Apr. 5	681	144 145	83	129
Permutation-lock.....	J. H. Parks.....	615,655	Dec. 6	810	188	85	1572
Permutation-lock.....	H. D. Smith and J. W. Batcheller..	598,027	Jan. 25	2707	632	82	575
Permutation-lock for boxes.....	H. Hinterholzner.....	616,104	Dec. 20	1630	381	85	1761
Pessary.....	L. F. Biesmeyer.....	604,958	May 31	3143	723	83	1294
Pessary.....	A. M. Longshore-Potts.....	606,565	June 28	2848	656	83	1954
Pessary.....	H. Roeber.....	614,895	Nov. 29	3000	687	85	1257
Pessary.....	J. W. Scroggs.....	602,777	Apr. 19	2047	463	83	418
Pessary-applier.....	E. A. Butler.....	615,425	Dec. 6	394	94	85	1489
Petroleum-burner.....	W. I. Ohmer.....	604,781	May 31	2855	652	83	1238
Petroleum. Desulfurizing.....	T. F. Colin.....	607,017	July 12	686	---	84	156
Petroleum, &c. Process of and apparatus for re-	H. Wolf.....	604,280	May 17	1932	432 433	83	1025
fining crude.....	E. T. Kervick.....	604,236	May 17	1848	414	83	1008
Pew-guard.....	A. D. Linn.....	612,135	Oct. 11	964	233	85	198
Pews. Kneeler for church.....	A. Eichengrün.....	615,970	Dec. 13	1367	---	85	1692
Pharmaceutical compound.....	A. Eichengrün.....	615,825	Dec. 13	1104	---	85	1642
Pharmaceutical compound and making same.	K. Hock.....	607,172	July 12	1008	---	84	212
Pharmaceutical compound and making same.	L. Lederer.....	606,930	July 5	519	---	84	103
Phenyl ethers. Obtaining hydroxylized	T. A. Edison.....	605,667	June 14	1119	258	83	1586
Phonograph.....	T. A. Edison.....	607,588	July 19	1956	406	84	416
Phonograph.....	T. A. Edison.....	609,268	Aug. 16	2068	491	84	1087
Phonograph.....	T. A. Edison.....	610,706	Sept. 13	1017	235 236	84	1655
Phonograph-cylinder cabinet.....	E. U. Kinsey.....	615,856	Dec. 13	1151	268 269	85	1650
Phosphate and making same.....	J. G. Wiborgh.....	601,089	Mar. 22	2600	---	82	1767
Phosphates. Making.....	H. Poole.....	598,182	Feb. 1	193	---	82	639
Photograph and producing same. Relief-	D. F. Hulbert.....	615,025	Nov. 29	3261	748	85	1309
Photograph-holder.....	L. B. Hinman.....	603,878	May 10	1162	262	83	842
Photographs. Automatic apparatus for taking	R. W. Vining.....	606,318	June 28	2392	553 554	83	1865
Photographs. Coloring.....	D. Baker.....	600,132	Mar. 8	978	---	82	1425
Photographs. Embossing.....	D. F. Hulbert.....	615,026	Nov. 29	3262	748 749	85	1309
Photographs in color. Producing.....	J. W. McDonough.....	611,457	Sept. 27	2422	556	84	1958
Photographs in colors. Producing.....	V. Vaucamps.....	608,934	Aug. 9	1413	---	84	947
Photographs in natural colors.....	G. Selle.....	604,269	May 17	1914	---	83	1021
Photographs in relief. Apparatus for producing	J. C. Oliver.....	612,504	Oct. 18	1601	982	85	332
Photographs. Producing relief.....	H. M. Waide.....	607,147	July 12	964	208	84	203
Photographer's lantern.....	W. Neil.....	610,194	Sept. 6	77	16	84	1455
Photographic-background carrier.....	M. C. Harriman.....	610,808	Sept. 13	1204	277	84	1692
Photographic-background carrier.....	M. V. Shaff.....	597,788	Jan. 25	2305	537	82	497
Photographic camera.....	F. A. Brownell.....	610,153	Aug. 30	3621	842	84	1422
Photographic color-screen.....	C. F. Uebelacker.....	612,937	Oct. 25	2403	572	85	504
Photographic dark rooms. Candle-lamp for	E. F. Gennert.....	603,427	May 3	319	72	83	661
Photographic developer.....	A. Bogisch.....	608,147	July 26	2978	---	84	633
Photographic developer and process of developing	A. Bogisch.....	615,792	Dec. 13	1053	---	85	1631
Photographic developing apparatus.....	A. S. Cobenzl.....	609,661	Aug. 23	2797	652	84	1244
Photographic developing apparatus.....	W. B. Cozzens.....	615,143	Nov. 29	3477	797	85	1539
Photographic developing apparatus.....	M. Fernekes.....	610,392	Sept. 6	485	106	84	1532
Photographic developing-tray.....	W. H. Rose.....	607,485	July 19	1773	369	84	383
Photographic-film holder.....	C. M. Mali.....	606,727	July 5	164	36	84	34
Photographic films. Apparatus for developing	J. S. Johnston.....	609,677	Aug. 23	2822	658	84	1250
Photographic films. Apparatus for manufacturing	H. M. Reichenbach.....	599,631	Feb. 22	2761	642 643	82	1186
Photographic finder.....	O. Bentz.....	607,583	July 19	1947	404	84	415
Photographic finder.....	H. B. Carlton.....	605,245	June 7	350	80	83	1418
Photographic-negative rack.....	J. H. Smith.....	600,273	Mar. 8	1220	277	82	1472
Photographic-negative washer.....	W. Neil.....	609,900	Aug. 30	3194	749	84	1336
Photographic opaque negative and printing there-	N. Bouvang.....	603,936	May 10	1260	287	83	861
from.....							
Photographic ornamentations on metal, &c. Pro-	T. Häusermann.....	616,706	Dec. 27	2795	---	85	2008
ducing.....							
Photographic paper. Apparatus for treating and	A. Schwarz.....	607,649	July 19	2069	432	84	437
washing.....							
Photographic pellicle and producing same.....	H. Goodwin.....	610,861	Sept. 13	1292	298	84	1711
Photographic-plate carrying and transferring case.	J. C. Kimsey.....	607,052	July 12	778	170	84	170
Photographic-plate holder.....	F. A. Brownell.....	604,455	May 24	2264	508	83	1109
Photographic-plate holder.....	J. C. Kimsey.....	607,054	July 12	783	171	84	171
Photographic-plate holder.....	C. A. Lindsay.....	613,068	Oct. 25	2614	619	85	547
Photographic-plate holder.....	J. Schaub.....	603,972	May 10	1312	301	83	871
Photographic-plate holder.....	J. F. Short.....	600,179	Mar. 8	1058	239	82	1441
Photographic-plate holder for three-color processes.	G. Sille.....	604,268	May 17	1914	428	83	1021
Photographic-plate magazine.....	J. C. Kimsey.....	607,053	July 12	780	170	84	170
Photographic-plate washer.....	W. H. Bierwirth.....	607,677	July 19	2113	442	84	445
Photographic-plate washer.....	J. Kirkwood.....	608,871	Aug. 9	1285	300	84	923
Photographic-print washer.....	W. H. Leigh.....	605,229	June 7	322	74	83	1412
Photographic-printing apparatus.....	A. Schwarz.....	601,882	Apr. 5	504	104	83	95
Photographic-printing apparatus.....	A. Schwarz.....	601,883	Apr. 5	506	104	83	95
Photographic-printing apparatus. Continuous.....	A. Schwarz.....	607,648	July 19	2068	431	84	437



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Photographic-printing apparatus. Pneumatic	A. Schwarz	612,550	Oct. 18	1684	400	85	348
Photographic-printing frame	J. E. Crooks	599,440	Feb. 22	2394	563	82	1115
Photographic-printing frame	J. A. Lofstedt	616,577	Dec. 27	2534	587	85	1958
Photographic-printing frame	E. W. Sweigard	603,713	May 10	851	189	83	783
Photographic purposes. Combined lens for	C. P. Goerz and E. von Höegh	599,700	Mar. 1	45	10	82	1225
Photographic register for railway-coaches	N. M. Powell	610,971	Sept. 20	1484	338 339	84	1762
Photographic retouching-table	W. E. Harding	603,765	May 10	943	211	83	800
Photographic shutter	J. L. Atwater	612,476	Oct. 18	1561	374	85	324
Photographic shutter	F. A. Brownell	610,154	Aug. 30	3624	842 843	84	1423
Photographic shutter	C. F. H. Huff and O. C. Hale	607,242	July 12	1150	246	84	237
Photographic shutter	G. C. O. Lange	608,875	Aug. 9	1292	301	84	924
Photographic shutter	H. W. Locke	609,033	Aug. 16	1609	383 384	84	999
Photographic shutter	J. A. Mosher	615,296	Dec. 6	134	36	85	1439
Photographic shutter	J. A. Mosher	615,297	Dec. 6	136	36	85	1440
Photographic shutter	V. Odquist and J. C. Fyfe	616,582	Dec. 27	2543	588	85	1960
Photographic-shutter-operating lever	H. White	599,576	Feb. 22	2644	619 620	82	1162
Photographic shutters. Device for pneumatically operating	S. H. Smith and H. Holborn	615,315	Dec. 6	160	42, 43	85	1444
Photographic tray	J. H. Smith	616,152	Dec. 20	1731	401	85	1779
Photographic view-finder	M. H. Springsteen	613,430	Nov. 1	401	92	85	693
Photographing objects in motion and projecting pictures. Apparatus for	W. Latham	600,113	Mar. 1	889	204 205	82	1388
Photomechanical-plate holder	H. Goodwin	600,688	Mar. 15	1944	443 444	82	1628
Photometer	A. Gartley	611,623	Oct. 4	51	12, 13	85	12
Physician's table	W. D. Allison	612,373	Oct. 11	1381	334 335	85	277
Piano	W. M. Bauer	604,166	May 17	1718	387	83	983
Piano	R. S. Bowen	598,693	Feb. 8	1078	260	82	824
Piano	J. Dierdorf	602,681	Apr. 19	1895	431 432	83	389
Piano	B. Kroeger	610,065	Aug. 30	3490	809	84	1394
Piano-action	R. E. Cobb	608,177	Aug. 2	16	4, 5	84	657
Piano-action	A. Ferner	610,963	Sept. 20	1472	336	84	1760
Piano-action	O. Scheller	600,680	Mar. 15	1932	439	82	1626
Piano attachment	A. F. Florey	614,456	Nov. 22	2201	505	85	1092
Piano attachment	F. Kindermann	609,966	Aug. 30	3321	773	84	1361
Piano attachment	J. H. Moyer	601,156	Mar. 22	2709	623	82	1788
Piano attachment	J. H. Moyer	601,157	Mar. 22	2711	623	82	1788
Piano attachment	E. Peterson	614,340	Nov. 15	1979	457	85	1037
Piano construction. Securing apparatus for use in	S. N. Swan	616,430	Dec. 20	2255	526	85	1885
Piano fall-board	W. F. Kracht	602,808	Apr. 19	2112	476	83	430
Pianoforte	J. L. Courtice and J. Wood	598,363	Feb. 1	509	122 123	82	698
Pianoforte	J. H. Ludwig	608,693	Aug. 9	941	217	84	861
Pianoforte	J. Noble and F. R. Bennett	608,476	Aug. 2	549	123	84	764
Pianoforte	J. A. Weser	597,044	Jan. 11	1027	242 243	82	216
Pianoforte-action	L. A. Barber	604,136	May 17	1669	375	83	973
Pianoforte-action	H. George, T. D. Turnbull, and A. H. Coyle	598,367	Feb. 1	513	124	82	699
Pianoforte-action	W. W. Wallace	608,938	Aug. 9	1420	335	84	948
Pianoforte action. Upright	F. L. Becker	599,585	Feb. 22	2658	622	82	1165
Pianoforte transposing mechanism	E. H. Gigney	604,144	May 17	1681	378	83	976
Pianoforte-wires. Device for sustaining and adjusting tension of	J. H. and L. F. Papps	609,210	Aug. 16	1939	461	84	1059
Pianofortes. Means for tuning	C. Hicks	601,322	Mar. 29	3047	686	82	1879
Piano-player. Autopneumatic	F. R. Goolman	598,419	Feb. 1	611	150 151	82	718
Piano-player. Electropneumatic	F. R. Goolman	603,184	Apr. 26	2752	625 627	83	568
Piano sounding-board	W. F. Leonhardt	602,992	Apr. 26	2434	555	83	507
Piano-tone-modifying attachment	J. C. King	602,135	Apr. 12	939	205	83	190
Piano-tuning apparatus	J. B. Dayfoot	602,499	Apr. 19	1566	356	83	328
Piano-tuning-pin holder	J. Dierdorf	602,680	Apr. 19	1894	431	83	389
Pianos. Device for correcting sounding-boards in upright	R. E. Letton	605,729	June 14	1218	282	83	1604
Pianos. Stringing	C. S. Weber	606,179	June 21	2110	485	83	1789
Pick	J. H. Maddux	599,717	Mar. 1	70	16	82	1230
Pick	G. Singleton	613,729	Nov. 8	910	208	85	810
Pick	E. A. Smith	599,949	Mar. 1	512	116	82	1310
Pick. Miner's	B. Rubenstein	608,716	Aug. 9	983	226	84	868
Pick. Reversible	N. Wetsue	601,388	Mar. 29	3151	711	82	1899
Pickax-socket	A. W. Johnson	612,244	Oct. 11	1152	277	85	235
Picker: See Cotton-picker. Fruit-picker. Cranberry-picker. Stone-picker.							
Picker-staff clamp	W. J. Thompson	596,922	Jan. 4	809	192	82	158
Picker-stick	J. Begins	602,297	Apr. 12	1235	271	83	248
Picker-stick attachment	F. M. Hutchison	615,220	Nov. 29	3658	839	85	1385
Picture	I. G. Mellinger	613,703	Nov. 8	846	194	85	798
Picture and frame. Combined	H. C. Busch	597,953	Jan. 25	2583	603	82	551
Picture and mirror. Combined	W., Jr., and A. B. Wellstood	608,356	Aug. 2	339	74	84	723
Picture. Colored	J. Jacobson	611,380	Sept. 27	2281	527	84	1932
Picture-displaying device	F. S. Chance. (Reissue)	11,650	Feb. 15	2124	505	82	1038
Picture-frame	P. Emmenegger	599,774	Mar. 1	176	43	82	1249
Picture-frame	M. Herskovitz	605,821	June 14	1402	321	83	1638
Picture-frame	F. O. McCaskey	612,747	Oct. 18	2050	486	85	416
Picture-frame	H. Stengel	613,091	Oct. 25	2653	627	85	554
Picture-frame and matchsafe or receptacle. Combined	J. V. Christl	606,621	June 28	2945	682	83	1972
Picture-frame hanger	J. B. Turner	606,816	July 5	340	72	84	68



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Picture-frame support.	J. T. Mumford	597,426	Jan. 18	1676	389	82	359
Picture-frames, &c. Adjustable hanger for	H. D. Smart	614,184	Nov. 15	1672	385	85	979
Picture-hanger	T. J. Bruce	615,799	Dec. 13	1061	250	85	1633
Picture-hanger	A. Ehlers	616,299	Dec. 20	2019	470	85	1840
Picture-hanger	A. Fosgate	606,710	July 5	136	29	84	28
Picture-hanger	S. Lord	603,146	Apr. 26	2701	613	83	558
Picture-hanger	S. Lord	613,841	Nov. 8	1100	250	85	846
Picture-hanger	H. H. Draper	615,962	Dec. 13	1352	316	85	1688
Picture lifter and hanger	P. Drinkaus	611,238	Sept. 27	1993	460	84	1879
Picture-matting cutter	E. J. Fitzgerald	599,325	Feb. 22	2157	512	82	1067
Picture-supporter	K. Wirth	596,672	Jan. 4	378	85	82	75
Pictures. Apparatus for plate-glass	M. M. Cormeny	602,730	Apr. 19	1975	448	83	405
Pie or cake cooler	J. M. Huckins	596,778	Jan. 4	574	132	82	110
Pie-pan	J. H. Burns	605,473	June 14	767	176	83	1521
Pie-rack	J. W. Martin	615,457	Dec. 6	448	105	85	1499
Pie safe or canister	B. F. Williston	603,354	May 3	188	43	83	638
Pier. Foundation	E. D. Fulford	611,622	Oct. 4	49	11, 12	85	12
Pigeon-trap	G. S. Mott	614,331	Nov. 15	1968	454	85	1034
Pigeon-trap	C. T. Reichert	614,132	Nov. 15	1596	366	85	965
Pigeon-trap	L. W. Slack	608,801	Aug. 9	1137	263	84	896
Pigeon-trap	F. Hennebique	611,909	Oct. 4	548	133	85	109
Pile	H. McDermid	613,385	Nov. 1	305	71	85	675
Pile-cutting machine. Weft	J. B. Daymont	606,406	June 28	2557	592	83	1895
Piled-fabric-cutting apparatus	J. Platt	603,224	Apr. 26	2821	645	83	581
Pile fabrics. Apparatus for cutting double	R. Richter	604,701	May 24	2714	620	83	1192
Pile fabrics. Apparatus for cutting the pile of weft	G. Roger	597,619	Jan. 18	1999	466	82	424
Pile fabrics. Apparatus for cutting the pile of weft	G. Roger	597,620	Jan. 18	2000	466	82	424
Pile fabrics. Mechanism for cutting the pile of weft	G. Roger	597,658	Jan. 18	2067	484	82	437
Pile fabrics. Machinery for cutting weft	J. J. Mann	616,716	Dec. 27	2823	653	85	2015
Pile of velvets, &c. Apparatus for cutting	J. Kershaw	611,237	Sept. 27	2024	467	84	1885
Piles from aqueous insects. Means for protecting	H. Gallinowsky	612,839	Oct. 25	2246	537	85	473
Piling, timbers, &c. Machine for applying compounds for protecting	V. D. and H. R. Rood	611,208	Sept. 20	1916	442	84	1844
Pill-making machine	E. C. Clark	613,758	Nov. 8	962	221	85	820
Pills or pellets. Device for cutting or dividing	H. G. Rue	599,796	Mar. 1	207	51	82	1254
Pills. Process of and apparatus for dipping	E. L. Richards	599,865	Mar. 1	365	82	82	1282
Pillow attachment for hammocks or chair-backs	I. E. Palmer	614,620	Nov. 22	2495	570	85	1144
Pillow-block	W. J. Daly	601,769	Apr. 5	283	56	83	54
Pillow, mattress, cushion, &c. Air	W. R. Shryock	613,328	Nov. 1	190	41	85	653
Pillow-sham holder	H. Hutchins	597,417	Jan. 18	1658	385	82	355
Pilot-burner	W. C. Homan	615,706	Dec. 13	894	207	85	1601
Pin:							
See Bowling-alley pin.	Husking-pin.						
Clothes-pin.	Jewelry-pin.						
Hair-pin.	Safety-pin.						
Hat-pin.	Thill-coupling pin.						
Pin	O. Congelton	600,406	Mar. 8	1426	326	82	1512
Pin	O. Congelton	600,477	Mar. 8	1555	358	82	1534
Pin-holder	A. E. Ormond	615,885	Dec. 13	1193	279	85	1658
Pin-lock	W. E. Sparks	599,367	Feb. 22	2241	532	82	1084
Pins. Manufacture of	R. Neuss	601,062	Mar. 22	2564	585	82	1760
Pincers. Farrier's.	H. Wagner	601,917	Apr. 5	565	117	83	107
Pipe:							
See Blowpipe.	Sheet-metal pipe.						
Composite pipe.	Smoking-pipe.						
Drainable pipe.	Tobacco-pipe.						
Metallic pipe.	Tobacco smoking-pipe.						
Sanitary or other pipe.	Whistle-pipe.						
Wooden pipe.							
Pipe and bar cutting tool	E. Fortaner	606,130	June 21	2024	463	83	1772
Pipe and bolt threading machine. Hand	J. F. Crudginton	596,983	Jan. 11	925	218	82	196
Pipe and flue cleaner	T. H. Kane	606,013	June 21	1808	417	83	1731
Pipe and hose coupling	T. F. Lees	610,359	Sept. 6	420	90	84	1520
Pipe. Apparatus for manufacturing	P. Boyd	606,159	June 21	2075	477	83	1782
Pipe. Apparatus for manufacturing composite non-corrodible	E. I. Braddock	610,223	Sept. 6	151	34, 35	84	1472
Pipe-bending apparatus	R. Clarke	604,021	May 17	1455	326	83	933
Pipe-bending machine	B. J. Parker and F. G. Cross	608,383	Aug. 2	382	83, 84	84	731
Pipe-binder	C. L. Pinney	603,455	May 3	371	83	83	672
Pipe-boring machine	B. C. Batcheller	607,820	July 26	2388	507	84	517
Pipe clamp and holder	R. W. Clark	609,534	Aug. 23	2547	596	84	1197
Pipe cleaner. Waste or sink	G. W. Merritt	608,207	Aug. 2	71	19	84	669
Pipe-coil. Multiple	F. A. Phelps, Jr	612,175	Oct. 11	1034	249	85	212
Pipe-collar	E. J. Mallen	608,060	July 26	2844	606	84	606
Pipe-compressing machine. Corrugated	W. A. Kemp	606,786	July 5	290	60	84	58
Pipe-coupling	A. J. Avery	603,720	May 10	863	192	83	785
Pipe-coupling	A. J. Avery	603,721	May 10	864	192	83	785
Pipe-coupling	W. M. Coffee	598,857	Feb. 8	1334	323	82	873
Pipe-coupling	T. Davey	610,321	Sept. 6	347	74	84	1508
Pipe-coupling	W. W. Edwards	604,857	May 31	2986	685	83	1263
Pipe-coupling	D. K. Keller	609,030	Aug. 16	1606	382	84	998
Pipe-coupling	F. B. Landis	607,180	July 12	1020	222	84	214
Pipe-coupling	F. T. Leatherman and J. Metzler	608,000	July 26	2725	582	84	580
Pipe-coupling	W. Love	616,578	Dec. 27	2535	587	85	1958
Pipe-coupling	E. J. Mallen	596,817	Jan. 4	638	146	82	123
Pipe-coupling	A. W. McGahan	616,005	Dec. 13	1436	336	85	1705
Pipe-coupling	J. Morrison and H. P. Hansen	606,677	July 5	79	16	84	18
Pipe-coupling	J. E. Myers	597,733	Jan. 25	2198	513	82	478
Pipe-coupling	J. T. Perkins	600,444	Mar. 8	1489	340	82	1522
Pipe-coupling	F. A. Phelps, Jr	604,159	May 17	1708	385	83	981
Pipe-coupling	A. Richardson	598,158	Feb. 1	143	33	82	630



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pipe-coupling	H. B. Sherman	601,591	Mar. 29	3479	798	82	1965
Pipe-coupling, &c	J. S. Smith	598,395	Feb. 1	550	134	82	706
Pipe-coupling	N. E. Smith	599,267	Feb. 15	2026	480	82	1021
Pipe-coupling and patch	G. W. Meserve	607,517	July 19	1822	379	84	392
Pipe-coupling for broken water-closet bowls	J. H. Glauber	606,536	June 28	2799	645	83	1944
Pipe-coupling. Sealed	F. T. Moody	616,128	Dec. 20	1676	391	85	1769
Pipe-coupling. Swivel	C. W. Vaughan	611,442	Sept. 27	2397	549	84	1952
Pipe coupling. Train-	W. I. and M. R. Cunningham and T. Sjöman.	597,267	Jan. 11	1396	327	82	287
Pipe couplings. Automatic dust-guard for train-	M. J. Hoey	603,190	Apr. 26	2767	631	83	571
Pipe covering. Hydrant-	M. H. Mergenthaler	616,127	Dec. 20	1674	390	85	1769
Pipe-covering. Non-conducting	W. H. Seltzer	616,809	Dec. 27	2968	692	85	2045
Pipe-cutter	D. S. Grant	606,538	June 28	2801	646	83	1944
Pipe-cutter	G. O. Morse and E. D. Rich	608,066	July 26	2853	609	84	609
Pipe cutting and expanding machine	C. W. A. Koelkebeck and J. K. Smith	604,664	May 24	2635	604	83	1177
Pipe-cutting tool	A. Rodefeld	598,159	Feb. 1	144	33	82	630
Pipe-drawing apparatus	J. H. Matheson	600,332	Mar. 8	1308	299	82	1489
Pipe-elbow	W. A. Kemp	607,620	July 19	2013	418	84	427
Pipe-elbow-bending machine	W. A. Kemp	606,785	July 5	288	59	84	57
Pipe-flange coupling	W. M. Gore	612,455	Oct. 18	1521	365	85	317
Pipe-flasks. Rotary rammer for	C. B. Allen	612,300	Oct. 11	1258	304	85	253
Pipe-hanger	T. F. Dwyer	603,180	Apr. 26	2745	625	83	567
Pipe-hanger	C. MacTaggart	599,424	Feb. 22	2357	556	82	1108
Pipe-hanger	T. B. Sauer	603,924	May 10	1239	281	83	856
Pipe-holder	T. Shambaugh and J. R. McConnell	612,061	Oct. 11	838	205	85	174
Pipe-hook	C. F. Schilling	597,438	Jan. 18	1703	394	82	364
Pipe-joint	G. Hoyer	604,863	May 31	2996	688	83	1265
Pipe-joint	W. I. Reich	616,011	Dec. 13	1448	339	85	1708
Pipe joint and connection	F. A. Linich	608,613	Aug. 9	794	183	84	831
Pipe-joint and union	T. F. Hammer	605,098	June 7	55	17	83	1363
Pipe joint. Earthenware or other	J. Farley	615,149	Nov. 29	3488	801	85	1352
Pipe-joints, &c. Composition for	S. R. Thompson	615,000	Nov. 29	3214		85	1301
Pipe-lock	C. O. Wescott	611,305	Sept. 27	2126	491	84	1904
Pipe-mold-forming apparatus	J. K. Gunn	601,512	Mar. 29	3361	762	82	1940
Pipe or nut wrench	W. T. Williams	599,578	Feb. 22	2649	620	82	1163
Pipe or tube coupling	E. T. Greenfield	599,558	Feb. 22	2610	612	82	1156
Pipe or tube cutter	C. H. Snedeker	603,662	May 10	769	170	83	766
Pipe or tubing cutting tool	O. Patzschke	613,596	Nov. 1	675	155	85	744
Pipe-plug	D. A. Streeter	600,751	Mar. 15	2048	468	82	1649
Pipe-sections. Machine for grooving or threading sheet-metal	J. C. Gooding	616,783	Dec. 27	2921	679	85	2035
Pipe splitter and perforator	A. J. Bramlette	602,301	Apr. 12	1240	272	83	249
Pipe tapping and connecting device	S. G. Howe	600,831	Mar. 15	2174	495 496	82	1672
Pipe-testing machine	C. M. and C. E. Kemp	602,289	Apr. 12	1223	269	83	246
Pipe-thimble	P. V. Dwyer	601,709	Apr. 5	174	33	83	34
Pipe-thimble	L. T. Houghton and W. H. Buxton	605,640	June 14	1073	246	83	1577
Pipe-threading implement	C. A. Bailey	598,279	Feb. 1	374	86	82	672
Pipe-threading implement	C. A. Bailey	607,726	July 19	2187	462	84	460
Pipe-threading machine	C. A. Bailey	598,278	Feb. 1	372	86	82	672
Pipe trimmer and cutter	J. L. Raney	610,829	Sept. 13	1240	285 286	84	1699
Pipe-wiping apparatus	P. Boyd	609,263	Aug. 16	2061	489	84	1085
Pipe-wrench	M. Blackwell	612,454	Oct. 18	1520	365	85	316
Pipe-wrench	A. E. Brockett	605,441	June 7	723	163	83	1492
Pipe-wrench	T. Forstner	599,169	Feb. 15	1874	444	82	991
Pipe-wrench	T. J. Fowler	604,526	May 24	2399	546	83	1131
Pipe-wrench	J. A. Hawthorn	596,505	Jan. 4	76	17	82	17
Pipe-wrench	D. H. Hollingsworth	609,545	Aug. 23	2563	600	84	1200
Pipe-wrench	D. C. Johnston	610,450	Sept. 6	576	127	84	1549
Pipe-wrench	A. M. Kleckner	608,202	Aug. 2	65	17	84	668
Pipe-wrench	C. Kramer	600,494	Mar. 8	1610	368	82	1546
Pipe-wrench	O. Lannon	608,293	Aug. 2	216	50	84	698
Pipe-wrench	J. W. Lind	602,340	Apr. 12	1297	288	83	261
Pipe-wrench	W. W. McChesney	614,255	Nov. 15	1832	424	85	1008
Pipe-wrench	J. E. McDonald	606,572	June 28	2858	650	83	1956
Pipe-wrench	R. J. Miller	612,525	Oct. 18	1635	390	85	339
Pipe-wrench	S. Montgomery	600,968	Mar. 22	2402	548	82	1729
Pipe-wrench	J. G. Newell	605,901	June 21	1577	362	83	1691
Pipe-wrench	T. M. Righter and G. Jeffryes	602,229	Apr. 12	1115	245	83	224
Pipe-wrench	O. F. Roberts	610,831	Sept. 13	1243	286	84	1700
Pipe-wrench	B. Ross	599,673	Feb. 22	2835	659	82	1200
Pipe-wrench	L. C. Springer	602,590	Apr. 19	1721	392	83	355
Pipe-wrench	O. C. Stanley	607,288	July 12	1231	263	84	254
Pipe-wrench	W. Tyack	615,926	Dec. 13	1280	299	85	1674
Pipe-wrench	A. Werts	601,723	Apr. 5	195	38	83	39
Pipes by freezing. Apparatus for preventing bursting of water-	N. M. Hopkins	616,188	Dec. 20	1809	418	85	1796
Pipes, &c. Covering-plate for channels for	D. Grove	604,582	May 24	2506	570	83	1152
Pipes. Detachable coupling for lead	P. H. Gundermann	597,497	Jan. 18	1806	418	82	385
Pipes. Device for detecting sediment in	E. Kruse	598,321	Feb. 1	444	106	82	686
Pipes. Machine for closing locking-bars used in constructing rivetless	M. Ferguson	615,214	Nov. 29	3641	836	85	1382
Pipes, &c. Machine for screwing up or unscrewing	C. H. McCready	614,333	Nov. 15	1970	455	85	1035
Pipes. Means for coupling small	V. A. Jensen	609,509	Aug. 23	2506	586	84	1189
Pipes. Method of and means for laying submerged	E. K. Conover	612,485	Oct. 18	1578	377	85	327
Pipes. Mouthpiece attachment for tobacco-	E. H. Farley	601,373	Mar. 29	3123	705	82	1894
Pipes or conduits. Pneumatic traveler for	L. C. Kohler	599,713	Mar. 1	66	15	82	1229
Pipes. Pneumatic plug for water or waste	A. Pallas	614,749	Nov. 22	2726	622	85	1189
Pipes. Treating metal	R. and J. W. Garland	611,900	Oct. 4	533		85	106
Pipette	A. W. Stokes	605,146	June 7	165	41	83	1382
Piperazin salts. Making	W. B. and A. Bishop	597,454	Jan. 18	1737		82	371
Piperidin derivative	P. Schidrowitz and O. Rosenheim	597,745	Jan. 25	2218		82	482
Piperidin salts and making same	P. Schidrowitz and O. Rosenheim	615,051	Nov. 29	3315		85	1319
Piperidyl carbamate of piperidin and making same	P. Schidrowitz and O. Rosenheim	615,991	Nov. 29	3202		85	1298
Pistol. Ammonia and water	A. F. Humphrey	605,430	June 7	708	158	83	1489



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pistol-holder .....	E. D. Zimmerman .....	609,317	Aug. 16	2160	511	84	1106
Pistol. Liquid- .....	R. Parker .....	600,552	Mar. 15	1715	392	82	1586
Pistol. Magazine- .....	A. Nygren .....	597,588	Jan. 18	1951	454	82	414
Pistol. Magazine- .....	W. H. Trippett .....	606,493	June 23	2707	624	83	1926
Pistol. Magazine- .....	J. H. Wesson .....	616,692	Dec. 27	2771	644	85	2004
Piston-head. Steam .....	J. Imler .....	615,183	Nov. 29	3549	816	85	1364
Piston of nutating-piston meters .....	J. C. Kelley .....	615,392	Dec. 6	330	77, 78	85	1477
Pitchfork and rake. Combined .....	S. B. Lee .....	613,012	Oct. 25	2520	600	85	528
Pitchfork and shovel. Combined .....	G. D. Beldin .....	611,312	Sept. 27	2142	495	84	1907
Pitching compound. Package- .....	J. F. Aussenheimer .....	601,611	Mar. 29	3514	-----	82	1971
Pith from stalks. Machine for removing .....	G. R. Sherwood .....	601,592	Mar. 29	3480	793 794	82	1965
Pitman connection for cutting mechanism of mowers, &c. .....	J. S. Ord .....	598,004	Jan. 25	2672	624	82	568
Pitman connections. Automatic key adjustment for .....	J. T. Norris .....	611,704	Oct. 4	201	47	85	42
Pitman-coupling .....	S. Douglass .....	600,522	Mar. 15	1663	379	82	1575
Pivot-holder .....	H. F. Krueger .....	613,687	Nov. 8	814	187	85	792
Placket-closer .....	F. R. Simkin .....	608,233	Aug. 2	114	28	84	677
Placket-fastener .....	K. W. Leaf .....	598,612	Feb. 8	929	223	82	797
Placket-fastener .....	J. H. McCauley .....	599,672	Feb. 22	2834	658	82	1200
Placket-fastener .....	M. B. Miller .....	616,720	Dec. 27	2829	655	85	2016
Placket-fastener .....	J. Teel .....	600,957	Mar. 22	2386	544	82	1726
Placket-fastener .....	I. N. Weitzel .....	597,131	Jan. 11	1185	278	82	247
Placket-protector and skirt-supporter .....	W. H. Carr and J. G. Wolf .....	603,523	May 3	528	116	83	702
Plaited fabric .....	J. D. Hatcher .....	615,985	Dec. 13	1398	327	85	1698
Plating-board .....	J. H. and I. Taylor .....	601,362	Mar. 29	3108	702	82	1891
Plating-machine .....	E. F. Donne .....	606,651	July 5	26	5, 6	84	7
Plating-machine .....	H. Pervilhac .....	604,839	May 31	2947	674	83	1255
Plane .....	J. Brandell .....	600,767	Mar. 15	2074	475	82	1654
Plane .....	J. N. Schneider .....	597,622	Jan. 18	2004	467 468	82	425
Plane. Block or smoothing .....	P. Shea .....	603,832	May 10	1077	241	83	825
Plane. Cooper's .....	I. J. Cocayne .....	597,930	Jan. 25	2533	591	82	541
Planer and metal-shaper. Crank- .....	J. Mills .....	614,967	Nov. 29	3150	724	85	1289
Planer ellipse-cutting mechanism .....	E. Diehl, F. Ruppert, and F. Löser .....	607,987	July 26	2701	576	84	575
Planer. Vertical .....	F. B. Miles .....	601,580	Mar. 29	3464	788 789	82	1962
Planing-machine .....	B. F. Ogden .....	610,080	Aug. 30	3515	814 815	84	1399
Planing-machine driving mechanism .....	A. Whitcomb .....	598,967	Feb. 15	1537	366	82	928
Planing machine. Floor- .....	S. A. Petersson .....	599,531	Feb. 22	2556	600	82	1145
Planing machinery .....	H. R. Tillison and C. W. H. Blood .....	596,555	Jan. 4	163	37, 38	82	33
Plant-protector .....	D. N. Simons .....	598,821	Feb. 8	1273	308	82	861
Plant-setting implement .....	J. C. Morris .....	612,745	Oct. 18	2045	486	85	416
Plant-support .....	C. L. Baldwin .....	603,754	May 10	918	204	83	796
Plant-supporter .....	W. H. Speer .....	601,782	Apr. 5	310	61	83	59
Plants, flowers, &c. Stake for .....	T. N. Parker .....	604,260	May 17	1892	424	83	1016
Plants. Machine for reducing pithy .....	A. F. Madden .....	605,293	June 7	452	100 101	83	1438
Plants, &c. Wash for hop- .....	B. S. Dyer .....	600,414	Mar. 8	1438	-----	82	1514
Planter .....	A. J. Allen .....	615,205	Nov. 29	3620	832	85	1379
Planter .....	W. L. Beall .....	597,485	Jan. 18	1790	414 415	82	382
Planter .....	G. E. Camp .....	612,624	Oct. 18	1834	435	85	376
Planter .....	G. B. Davison .....	601,870	Apr. 5	484	99 100	83	90
Planter .....	J. L. Durham .....	603,757	May 10	922	204	83	796
Planter .....	J. S. Earhart and C. Miller .....	609,666	Aug. 23	2802	653	84	1245
Planter .....	W. A. Fowler .....	611,469	Sept. 27	2447	564	84	1963
Planter .....	E. Michon .....	601,897	Apr. 5	529	109	83	100
Planter .....	E. M. Rumph .....	602,364	Apr. 12	1338	298	83	269
Planter .....	J. D. Schofield .....	602,173	Apr. 12	1020	224	83	205
Planter .....	J. D. Schofield .....	610,771	Sept. 13	1134	261	84	1677
Planter and fertilizer-distributor .....	J. W. Terry .....	601,537	Mar. 29	3403	772	82	1950
Planter and fertilizer-distributor. Combined .....	R. L. Hudson .....	601,017	Mar. 22	2492	567	82	1745
Planter and fertilizer-distributor. Combined .....	A. C. Noe .....	611,041	Sept. 20	1609	368 369	84	1786
Planter and fertilizer-distributor. Combined cotton-seed .....	W. G. Gray .....	603,900	May 10	1199	271	83	849
Planter and fertilizer-distributor. Combined seed- .....	J. A. Autry .....	611,805	Oct. 4	364	88	85	73
Planter and fertilizer-distributor. Cotton- .....	B. J. McLeskey .....	610,718	Sept. 13	1036	239	84	1659
Planter and marker. Combined .....	J. C. Wright .....	602,383	Apr. 12	1368	306 307	83	276
Planter attachment .....	W. H. Gongwer .....	597,644	Jan. 18	2040	476	82	432
Planter attachment. Corn- .....	W. C. Meyer .....	616,795	Dec. 27	2947	686	85	2039
Planter attachment. Corn- .....	W. P. Smith .....	604,129	May 17	1658	372	83	971
Planter attachment. Corn- .....	A. R. Young .....	602,534	Apr. 19	1631	371	83	339
Planter. Automatic check-row corn- .....	R. V. Barry .....	597,193	Jan. 11	1281	300	82	265
Planter. Automatic seed- .....	G. von Post .....	608,793	Aug. 9	1107	256	84	891
Planter. Cane .....	M. Gomez .....	611,034	Sept. 20	1597	366 367	84	1784
Planter. Check-row .....	J. W. Allen and C. West .....	610,786	Sept. 13	1168	269	84	1684
Planter check-row attachment .....	F. S. Breckenridge .....	600,711	Mar. 15	1983	451 452	82	1636
Planter check row attachment. Seed- .....	H. W. Deutscher .....	597,353	Jan. 11	1541	359 360	82	316
Planter. Check row corn- .....	R. L. Alexander .....	612,693	Oct. 18	1951	462	85	398
Planter. Check row corn .....	R. L. Huffman .....	612,903	Oct. 25	2352	560 561	85	498
Planter. Check row corn .....	J. B. Jarmin .....	596,516	Jan 4	99	22, 23	82	21
Planter. Check row corn- .....	L. E. Waterman .....	603,584	May 3	612	136 137	83	720
Planter check row. Corn- .....	W. O. Duryea .....	605,634	June 14	1060	244	83	1574
Planter checking attachment. Seed .....	C. C. Johnson and J. Gravelot .....	600,349	Mar. 8	1334	305	82	1494
Planter, chopper, and cultivator. Combined .....	N. Albreekt .....	615,603	Dec. 6	712	164	85	1553



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Planter. Combined cotton-seed and corn.....	W. A. Kile.....	609,279	Aug. 16	2090	495	84	1091
Planter. Corn.....	J. H. Acton.....	596,971	Jan. 11	903	213	82	193
Planter. Corn.....	J. F. Amos, Jr.....	615,949	Dec. 13	1330	311	85	1683
Planter. Corn.....	W. S. Coon.....	597,827	Jan. 25	2366	553	82	509
Planter. Corn.....	J. C. Courtney.....	611,356	Sept. 27	2221	513	84	1921
Planter. Corn.....	W. D. Cross.....	602,554	Apr. 19	1662	378	83	345
Planter. Corn.....	C. H. Dill.....	607,600	July 19	1976	410	84	420
Planter. Corn.....	W. H. Eckman.....	609,420	Aug. 23	2336	551	84	1159
Planter. Corn.....	W. W. Ellis.....	608,658	Aug. 9	883	203	84	849
Planter. Corn.....	G. C. Flagg.....	615,835	Dec. 13	1119	262	85	1645
Planter. Corn.....	G. D. Haworth.....	602,903	Apr. 26	2273	518	83	476
Planter. Corn.....	C. D. Keith.....	609,354	Aug. 16	2214	523	84	1115
Planter. Corn.....	L. H. Larson.....	605,608	June 14	1006	232	83	1564
Planter. Corn.....	F. K. Lathrop.....	613,929	Nov. 8	1243	282	85	874
Planter. Corn.....	W. S. Posson.....	600,800	Mar. 15	2126	486	82	1663
Planter. Corn.....	E. Price.....	608,221	Aug. 2	95	24	84	673
Planter. Corn.....	H. Rees.....	603,739	May 10	892	198	83	790
Planter. Corn.....	J. Roser.....	612,461	Oct. 18	1534	368	85	319
Planter. Corn.....	M. and A. Sattley and M. Heineke.....	609,215	Aug. 16	1959	465	84	1064
Planter. Corn.....	L. O. Sonde.....	612,551	Oct. 18	1686	401	85	348
Planter. Corn.....	C. J. Spurck.....	611,652	Oct. 4	106	26, 27	85	24
Planter. Corn.....	J. D. Tracy and J. F. Platt.....	602,148	Apr. 12	973	212	83	196
Planter. Corn.....	J. Urbanek.....	603,801	May 10	1007	225	83	813
Planter. Corn.....	R. H. Webb.....	612,938	Oct. 25	2404	226	85	504
Planter. Corn.....	S. M. Wixel.....	605,039	May 31	3280	573	83	1320
Planter. Corn.....	J. Zakovec.....	597,599	Jan. 18	1970	753	82	419
Planter. Corn and cotton.....	E. C. Wendeborn.....	597,925	Jan. 25	2525	459	82	539
Planter. Cotton.....	D. H. Hunter.....	608,456	Aug. 2	513	590	84	757
Planter. Cotton-seed.....	J. P. Caldwell.....	607,502	July 19	1796	115	84	388
Planter. Disk.....	M. P. Simpson, E. P. Williams, and J. M. Simpson.....	605,755	June 14	1262	374	83	1613
Planter. Double-row.....	F. K. Lathrop.....	613,930	Nov. 8	1245	291	85	874
Planter. Hand.....	T. B. Perry.....	612,270	Oct. 11	1204	283	85	244
Planter. Hand seed.....	C. N. Baker.....	607,208	July 12	1068	288	84	223
Planter marker. Corn.....	H. T. Donaldson.....	605,702	June 14	1182	231	83	1597
Planter marker-gage. Corn.....	A. N. A. K., and T. O. Burroughs.....	609,775	Aug. 30	2971	272	84	1291
Planter marking attachment.....	R. I. Brundage.....	599,992	Mar. 1	575	695	82	1322
Planter. Peanut.....	J. C. Drake.....	601,130	Mar. 22	2668	133	82	1780
Planter. Potato.....	J. A. Cooper.....	605,396	June 7	646	610	83	1476
Planter. Potato.....	W. H. Dannat.....	610,858	Sept. 13	1289	144	84	1710
Planter. Potato.....	J. A. Mengel and G. K. Binkley.....	613,212	Oct. 25	2865	297	85	596
Planter. Potato.....	J. Skinner.....	606,901	July 5	478	675	84	95
Planter. Potato.....	W. J. and P. E. Thomas.....	612,683	Oct. 18	1938	676	85	395
Planter. Potato.....	F. D. Williams.....	612,080	Oct. 11	873	458	85	181
Planter runner. Seed.....	H. F. Deterding.....	597,396	Jan. 18	1625	212	82	350
Planter runner. Seed.....	W. L. Spencer.....	604,800	May 31	2887	378	83	1244
Planter, scraper, and chopper. Combined cotton.....	G. A. Sago.....	596,913	Jan. 4	791	660	82	155
Planter. Seed.....	A. E. Blake.....	604,017	May 17	1449	186	83	932
Planter. Seed.....	J. H. Haley.....	596,997	Jan. 11	949	187	82	201
Planter. Seed.....	G. K. Spitzenberg.....	609,305	Aug. 16	2137	324	83	201
Planter. Seed.....	A. T. Stewart.....	603,213	Apr. 26	2798	225	84	1100
Planter seedbox.....	L. Peterson.....	612,867	Oct. 25	2294	506	83	576
Planter. Tobacco.....	W. Pretzman.....	615,744	Dec. 13	960	639	85	482
Planters. Automatic drop for corn.....	J. K. Patterson.....	600,019	Mar. 1	628	547	85	1614
Planting seed.....	I. J. Jenkins.....	614,002	Nov. 8	1367	223	82	1333
Plaque.....	R. R. Fish.....	598,080	Feb. 1	17	143	85	899
Plaster-board.....	M. G. F. Buckley.....	608,570	Aug. 9	714	5	82	606
Plaster-board.....	M. G. F. Buckley.....	616,074	Dec. 20	1560	163	84	817
Plaster-board. Process of and machine for making.....	E. C. Smith.....	597,332	Jan. 11	1505	364	85	1746
Plaster-of-paris casts or forms from molds. Making.....	G. Freret.....	612,626	Oct. 18	1838	351	82	310
Plasterer's steel angle-tie.....	G. W. Meserve.....	608,888	Aug. 9	1309	352	85	377
Plastering. Composition of matter for.....	H. C. McMillin.....	605,898	June 21	1574	305	84	928
Plastic composition from cork, &c. Producing.....	M. Hocquet.....	597,283	Jan. 11	1419	83	83	1690
Plastic compound.....	J. C. Graft.....	613,763	Nov. 8	969	82	291	
Plastic-material cutting table.....	A. Snell.....	615,582	Dec. 6	678	85	821	
Plastic materials. Machine for forming.....	W. S. Quinby.....	613,306	Nov. 1	145	156	85	1545
Plastic substances. Mold or die for.....	F. P. McColl.....	604,590	May 24	2517	34	85	645
Plate. Butter.....	G. L. Morrison.....	597,731	Jan. 25	2194	572	83	1154
Plate doubling and shearing machine.....	T. H. Lewis, J. Doran, B. and E. J. Lewis.....	611,134	Sept. 20	1792	573	82	477
Platen-press. Perfecting.....	F. L. and E. C. Jones.....	604,760	May 31	2823	412	84	1821
Platform.....					413	83	1231
See Dumping platform. Recording platform. Lifting platform.					645		
Platform and elevator.....	S. K. Dennis.....	611,774	Oct. 4	310	74, 75	85	63
Plating-machine.....	A. Woerber.....	598,457	Feb. 1	663	163	82	729
Plating metals.....	W. J. Wilder.....	604,201	May 17	1791	83	83	998
Plating sheet metal.....	W. J. Wilder.....	602,532	Apr. 19	1627	371	83	333



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				Spec.	Dr'g.	Vol.	Page.
Pliers.....	J. C. Slack.....	606,591	June 28	2891	669	83	1962
Pliers.....	J. T. Smith.....	602,880	Apr. 26	2230	505	83	468
Pliers.....	C. C. Ward.....	611,537	Sept. 27	2561	591	84	1985
Pliers and staple-puller.....	W. Cronk.....	597,896	Jan. 25	2479	579	82	531
Pliers. Magazine belt-fastener.....	G. W. Webb.....	612,074	Oct. 11	862	209	85	178
Pliers. Parallel.....	J. Pusey.....	597,740	Jan. 25	2205	515	82	480
Pliers. Wire-splicing.....	R. Beatty.....	601,929	Apr. 5	582	121	83	110
Plow.....	N. Ankarstolpe.....	607,207	July 12	1065	231	84	222
Plow.....	W. Auxier.....	603,495	May 3	468	104	83	690
Plow.....	G. Baldwin.....	611,191	Sept. 20	1885	435	84	1839
Plow.....	P. Bayer.....	611,027	Sept. 20	1589	364	84	1782
Plow.....	A. F. Bergqvist.....	609,492	Aug. 23	2481	579 580	84	1184
Plow.....	M. Campbell.....	614,790	Nov. 22	2796	641	85	1203
Plow.....	G. A. Crane.....	611,106	Sept. 20	1734	398	84	1811
Plow.....	C. O. Dahlman.....	613,122	Oct. 25	2696	637	85	563
Plow.....	B. T. Gorman.....	612,719	Oct. 18	1999	474	85	406
Plow.....	W. P. Hasty.....	612,899	Oct. 25	2348	559	85	492
Plow.....	E. M. Heylman.....	612,900	Oct. 25	2348	559	85	492
Plow.....	J. R. Ingram.....	598,934	Feb. 15	1473	352	82	916
Plow.....	C. H. Kimmel.....	598,874	Feb. 8	1361	328 329	82	879
Plow.....	H. B. Lambert.....	601,516	Mar. 29	3371	764	82	1943
Plow.....	L. Lea.....	607,934	July 26	2611	554	84	558
Plow.....	F. C. Merrill.....	611,456	Sept. 27	2421	556	84	1958
Plow.....	J. F. Miller.....	606,895	July 5	472	101	84	93
Plow.....	S. H. Puckett.....	600,801	Mar. 15	2127	486	82	1663
Plow.....	A. Reifsnnyder.....	606,242	June 28	2251	520	83	1835
Plow.....	J. W. Ross.....	606,490	June 28	2703	623	83	1925
Plow.....	J. W. Sargeant.....	609,370	Aug. 16	2238	529	84	1120
Plow.....	K. N. Sharp.....	613,727	Nov. 8	907	208	85	809
Plow.....	P. A. Spicer.....	614,032	Nov. 8	1409	323	85	908
Plow.....	P. A. Spicer.....	614,067	Nov. 8	1465	337	85	919
Plow.....	J. W. Viles.....	597,626	Jan. 18	2011	469	82	426
Plow.....	W. H. Ward.....	604,814	May 31	2905	664 665	83	1247
Plow.....	J. F. Weller.....	598,455	Feb. 1	660	163	82	729
Plow.....	R. H. Wiggins.....	599,210	Feb. 15	1937	458 459	82	1003
Plow.....	W. A. Wood.....	609,602	Aug. 23	2669	623	84	1219
Plow.....	F. L. Woodward.....	602,278	Apr. 12	1201	263	83	241
Plow and cultivator.....	W. H. Bennett.....	601,544	Mar. 29	3413	774	82	1953
Plow and cultivator.....	W. D. Harris.....	614,715	Nov. 22	2668	608	85	1177
Plow and harrow. Combination.....	A. D. Sperry.....	604,274	May 17	1922	430	83	1023
Plow and harrow. Combined.....	J. Kolb.....	607,178	July 12	1018	221	84	214
Plow and planter. Combined.....	G. Franklin.....	600,416	Mar. 8	1441	329	82	1514
Plow and planter. Combined.....	M. and A. Sattley.....	609,216	Aug. 16	1961	465 466	84	1064
Plow and seed-planter. Combined.....	J. Pennington.....	600,291	Mar. 8	1243	283	82	1477
Plow and stalk-chopper. Combination.....	W. Williams and S. C. Galbraith.....	615,333	Dec. 6	193	48, 49	85	1451
Plow attachment.....	J. E. Ball.....	605,172	June 7	204	51	83	1389
Plow attachment.....	R. S. Harrell.....	601,016	Mar. 22	2491	566	82	1745
Plow attachment.....	G. W. Ream.....	614,981	Nov. 29	3183	732	85	1295
Plow attachment.....	S. H. Ritter.....	606,244	June 28	2263	522	83	1838
Plow attachment.....	E. Whitman.....	603,437	May 3	337	75	83	664
Plow-bar protector.....	M. E. Manire and T. Hood.....	609,892	Aug. 30	3182	746	84	1334
Plow-carriage.....	O. C. Hubbard.....	604,351	May 17	2078	465	83	1053
Plow-carriage.....	S. H. Shipman.....	613,326	Nov. 1	186	41	85	652
Plow-cleaner.....	J. B. Yeagley.....	613,548	Nov. 1	592	136 137	85	729
Plow colter attachment.....	T. Haynes.....	607,743	July 19	2215	468	84	465
Plow. Cotton.....	M. Doss.....	604,309	May 17	1995	447	83	1037
Plow. Cultivator.....	D. C. Weed and F. Atkin.....	606,609	June 28	2920	677	83	1967
Plow. Disk.....	E. M. Heylman.....	606,412	June 28	2572	595	83	1898
Plow. Disk.....	S. Campbell.....	612,700	Oct. 18	1962	465 466	85	400
Plow-disk.....	D. T. Meneley.....	598,799	Feb. 8	1240	300	82	855
Plow. Ditching.....	A. Esty.....	616,300	Dec. 20	2021	470	85	1840
Plow ditching attachment.....	L. U. Valentine.....	615,374	Dec. 6	293	68	85	1470
Plow. Double-shovel.....	J. W. Neal.....	614,573	Nov. 22	2404	549	85	1129
Plow. Double-shovel.....	C. B. Williams.....	597,045	Jan. 11	1032	243	82	217
Plow draft-regulator.....	C. G. Hampton.....	609,187	Aug. 16	1898	451	84	1051
Plow. Electrically driven and moved.....	E. Dallmann.....	605,631	June 14	1055	242 243	83	1573
Plow-fender.....	R. Jefferson.....	601,376	Mar. 29	3127	706	82	1894
Plow-fender.....	J. H. Taylor.....	615,588	Dec. 6	688	158	85	1547
Plow gage-wheel.....	A. Carlson.....	613,662	Nov. 8	776	177	85	785
Plow. Gang.....	G. W. De Witt.....	610,387	Sept. 6	477	104	81	1530
Plow. Gang.....	F. W. Gordon.....	603,136	Apr. 26	2686	610	83	556
Plow. Gang.....	W. C. Matteson.....	608,696	Aug. 9	948	218	84	862
Plow. Gang.....	W. Stephenson.....	603,979	May 10	1321	303	83	873
Plow-handle clamp.....	J. G. Wells.....	601,765	Apr. 5	276	54	83	53
Plow. Hillside or reversible.....	E. C. Robinson.....	615,908	Dec. 13	1236	289 290	85	1666
Plow. Jointed-frame gang.....	J. B. Brite.....	612,377	Oct. 11	1390	336	85	278
Plow lifting attachment.....	O. O. Fjeld.....	614,455	Nov. 22	2198	505	85	1092
Plow-moldboard attachment.....	F. Borge and J. E. Clary.....	611,349	Sept. 27	2207	510	84	1919
Plow or cultivator standard and coupling.....	F. D. Bender.....	615,786	Dec. 13	1043	245	85	1629
Plow. Orchard.....	J. Porteous.....	613,305	Nov. 1	142	33	85	645
Plow, planter, and cultivator. Combined.....	C. H. Whitney.....	605,767	June 14	1283	298	83	1617
Plow-point.....	H. Matthies.....	598,614	Feb. 8	931	223	82	798
Plow-point.....	E. L. Troup.....	612,444	Oct. 18	1505	362	85	314
Plow pulverizing attachment.....	W. P. Dunlap.....	602,231	Apr. 12	1117	245	83	225
Plow. Reversible.....	A. Smith.....	616,741	Dec. 27	2856	662	85	2022
Plow. Reversible double-shovel.....	W. W. Anderson.....	612,984	Oct. 25	2477	590	85	519
Plow. Rotary.....	R. Coyle.....	612,827	Oct. 25	2211	524	85	467



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Plow row-gage	C. N. Rountree	599,478	Feb. 22	2466	580	82	1127
Plow seat attachment	W. J. Campbell	605,994	June 21	1766	405	83	1724
Plow-shovel	I. P. Pickering	613,302	Nov. 1	139	32	85	644
Plow. Sidehill	G. Gerow	616,533	Dec. 27	2467	570	85	1946
Plow. Sidehill gang	P. Maddocks	613,454	Nov. 1	436	99	85	699
Plow. Subsoil	Q. J. Hoke, T. W. Campbell, and W. M. Bigger.	612,901	Oct. 25	2350	560	85	492
Plow subsoil attachment. Riding	J. P. Twomey and R. C. Mills	609,850	Aug. 30	3107	724	84	1319
Plow. Sulky	J. D. Allen and E. Winston	612,809	Oct. 25	2177	518	85	461
Plow. Sulky	W. G. Daniels and W. Merrill	605,085	June 7	28	8, 9	83	1358
Plow. Sulky	J. and F. Labus	612,738	Oct. 18	2030	482	85	412
Plow. Sulky	W. H. Perrin	605,298	June 7	463	104	83	1440
Plow. Sulky	H. H. Sater	606,032	June 21	1843	424	83	1737
Plow. Sulky	G. Thane	601,600	Mar. 29	3495	797	82	1968
Plow. Sulky	L. E. Waterman	609,311	Aug. 16	2149	509	84	1103
Plow. Wheel	S. D. Poole	614,343	Nov. 15	1984	458 459	85	1038
Plow. Wheel	W. B. Richards	615,462	Dec. 6	459	102	85	1500
Plow. Wheel	M. and A. Sattley	615,310	Dec. 6	152	40, 41	85	1443
Plow-wheel box	C. P. Wakefield	609,713	Aug. 23	2880	673	84	1261
Plowing apparatus	F. Brutschke	614,363	Nov. 15	2025	467	85	1045
Plowshare	F. Wolf	602,711	Apr. 19	1945	442	83	399
Plowshare-upsetting machine	W. A. Clark	609,265	Aug. 16	2065	490	84	1086
Plucking-machine	I. Dresdner	605,311	June 7	484	108	83	1444
Plug. Testing	M. Cole	613,246	Nov. 1	37	9	85	624
Plug. Waste	H. Breyer, Jr.	601,394	Mar. 29	3164	715	82	1901
Plug. Waste	E. C. Phillips	601,400	Mar. 29	3176	717	82	1903
Plugging of holes. Device for air-tight	W. H. Haworth	614,547	Nov. 22	2350	538	85	1120
Plumb	J. L. Balser	615,781	Dec. 13	1036	244	85	1628
Plumb-bob. Self-winding	J. Gwilliam and W. Jarvis	599,178	Feb. 15	1856	446	82	993
Plumber's branch-pipe-holding device	O. F. Richter	605,613	June 14	1014	234	83	1566
Plumber's clamp	F. White and F. J. Murphy	602,381	Apr. 12	1365	305	83	275
Plumber's furnace	E. T. Burgess	604,518	May 24	2388	543	83	1129
Plumber's plug	F. W. O. North	596,612	Jan. 4	273	60	82	55
Plumber's screw-threading die	E. C. McKee	607,068	July 12	806	177	84	175
Plumber's wiping-pad	J. Porsch	612,595	Oct. 18	1765	417	85	362
Plumbing implement	E. Reineking	614,577	Nov. 22	2410	550	85	1130
Plumbing. Process of and apparatus for testing	A. A. Dumond	613,504	Nov. 1	529	119	85	716
Plunger brake-head	E. S. Hall	601,651	Apr. 5	48	10	83	10
Plush fabric	G. B. Goodall	605,710	June 14	1194	275	83	1600
Plush fabric. Double	E. Claviez	611,104	Sept. 20	1731	397 398	84	1810
Pneumatic apparatus for elevating or conveying tobacco-leaf, tea-leaf, wood-chips, &c.	S. C. Davidson	599,055	Feb. 15	1685	399 400	82	958
Pneumatic check	H. G. Chamberlin	612,156	Oct. 11	1008	243	85	207
Pneumatic cushion	A. and J. Szulezewski	602,486	Apr. 19	1548	352	83	324
Pneumatic-despatch apparatus	J. W. and A. Mathis	604,405	May 24	2165	486	83	1090
Pneumatic-despatch tube	H. Clay	603,174	Apr. 26	2737	623	83	566
Pneumatic-despatch tube	S. R. Gayton	610,528	Sept. 13	724	164	84	1594
Pneumatic-despatch-tube system	A. Johnson	600,536	Mar. 15	1690	385 386 387	82	1581
Pneumatic-despatch-tube systems. Receiver appliance for	C. F. Pike	616,255	Dec. 20	1939	449 450 451	85	1823
Pneumatic-despatch-tube systems. Terminal for	L. C. Bostedo	597,138	Jan. 11	1195	280	82	249
Pneumatic elevator	J. B. Schuman	603,925	May 10	1240	231 232	83	857
Pneumatic motor	F. W. Hedgeland	605,876	June 21	1533	353	83	1681
Pneumatic motor	F. W. Hedgeland	611,629	Oct. 4	61	15	85	14
Pneumatic-motor valve	F. W. Hedgeland	616,323	Dec. 20	2058	479	85	1847
Pneumatic pad for bicycle or like handles	H. L. Elton and N. J. Smith	597,108	Jan. 11	1147	271	82	240
Pneumatic spring	E. L. Egger	598,982	Feb. 15	1561	371	82	933
Pneumatic spring	W. Kowaleff	598,102	Feb. 1	57	13, 14	82	613
Pneumatic-tired wheel	J. T. Trench	602,671	Apr. 19	1882	428	83	386
Pneumatic tool	J. G. Carlinet	608,953	Aug. 9	1442	341	84	952
Pneumatic tool	D. Drawbaugh	606,961	July 5	559	123 124	84	111
Pneumatic tool appliance	J. Lanz	596,781	Jan. 4	576	133	82	111
Pneumatic-tube switch and back-stop	E. A. Fordyce	599,557	Feb. 22	2609	612	82	1156
Pocket	H. Bandler	605,840	June 21	1461	334	83	1668
Pocket and guard. Combined watch	M. J. Clark	606,275	June 28	2311	536	83	1848
Pocket-book	L. Cano	601,051	Mar. 22	2543	579	82	1755
Pocket-book	F. Hasselberger	597,579	Jan. 18	1936	450	82	411
Pocket-book	A. Reznicek	616,492	Dec. 27	2394	554	85	1933
Pocket-book	T. R. Weidemann	598,881	Feb. 8	1375	331	82	882
Pocket-book	G. A. Wieland	601,922	Apr. 5	571	119	83	108
Pocket-book register	S. L. Wentz	603,493	May 3	466	103	83	690
Pocket. Garment	R. Bartell and J. W. Shields	599,547	Feb. 22	2587	607	82	1151
Pocket. Garment	M. L. Holtz	608,375	Aug. 2	367	80	84	728
Pocket-knife	A. Berglund	598,896	Feb. 15	1401	337	82	902
Pocket-knife	J. F. Harvey	603,847	May 10	1100	247	83	830
Pocket-knife	J. A. Nell	600,442	Mar. 8	1486	339	82	1522
Pocket-knife	E. Ruettgers	616,689	Dec. 27	2767	643	85	2003
Pocket-register	C. Sebastian	602,918	Apr. 26	2304	525	83	482
Pocket. Safety	H. L. Broad	610,513	Sept. 6	699	157	84	1573
Poison-distributor	F. L. Richter	598,815	Feb. 8	1263	306	82	859
Poison-distributor	S. Bird	599,216	Feb. 15	1945	461	82	1005
Poison on plants. Apparatus for spraying	F. O. Blake	598,846	Feb. 8	1313	318	82	869
Poisons. Electric extraction of	J. B. Campbell	606,887	July 5	461	98	84	90
Poke. Animal	L. W. French	604,744	May 31	2796	640	83	1226
Poke. Animal	V. N. Noel	598,740	Feb. 8	1155	277	82	838
Poke. Animal	S. F. Webb	598,352	Feb. 1	484	116	82	693
Poke. School waste	R. Hess and M. H. Curtiss	611,122	Sept. 20	1771	406	84	1817
Poker-work. Tool for use in	A. Schneider	597,746	Jan. 25	2219	516	82	482
Pole and thill brace	C. E. Patterson	612,975	Oct. 25	2463	588	85	517



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pole. Carriage.....	W. W. Schultz.....	614,767	Nov. 22	2756	629	85	1195
Pole-climber.....	G. M. Howard.....	613,007	Oct. 25	2514	598	85	527
Pole coupling. Wagon.....	L. C. Wilcox.....	608,815	Aug. 9	1187	278	84	904
Pole or thill support. Vehicle.....	W. A. Maycock.....	607,804	July 19	2350	496	84	491
Pole-step.....	D. B. McBride.....	614,177	Nov. 15	1661	382	85	977
Pole-step. Portable.....	G. D. Aiken.....	601,849	Apr. 5	449	91	83	84
Pole tip. Carriage.....	F. A. Glassford.....	611,839	Oct. 4	432	103	85	86
Police-patrol system.....	O. W. Hart.....	606,865	July 5	431	92	84	85
Polisher or brush.....	W. K. Dumble.....	604,027	May 17	1463	323	83	935
Polisher. Rotating.....	J. A. Kurtz.....	614,873	Nov. 29	2961	680	85	1250
Polishing apparatus.....	R. F. Burwell.....	598,902	Feb. 15	1411	339	82	904
Polishing compounds to polishing or cutting tools. Supplying.....	F. Holland.....	605,283	June 7	431	97	83	1434
Polishing curved surfaces. Device for.....	H. T. Winters.....	597,518	Jan. 18	1840	426	82	392
Polishing device. Hand.....	J. Fieweger.....	604,895	May 31	3041	698	83	1274
Polishing-machine.....	F. Bubser.....	613,353	Nov. 1	243	55	85	664
Polishing-machine.....	F. F. Ellis.....	615,383	Dec. 6	310	73, 74	85	1473
Polishing-machine.....	E. P. Lorch.....	597,542	Jan. 18	1873	434	82	398
Polishing-wheel.....	A. Kortum.....	605,641	June 14	1074	246	83	1577
Poncho-holder.....	J. H. Tabler.....	608,927	Aug. 9	1401	331	84	944
Pool and billard table. Combined.....	V. Fountain.....	615,350	Dec. 6	240	57	85	1460
Pool-table. Parlor.....	P. L. Hayes.....	606,546	June 28	2816	648	83	1947
Pop-corn-fritter machine.....	W. Z. Long.....	616,125	Dec. 20	1670	390	85	1768
Pop-corn press.....	A. C. Grube.....	611,118	Sept. 20	1762	404	84	1815
Popped-corn-disk-forming machine.....	F. E. Cubbison.....	612,311	Oct. 11	1276	308	85	256
Porous bodies. Compound for making.....	H. E. Merrill.....	613,907	Nov. 8	1210	-----	85	868
Portable furnace or stove.....	A. M. Botelho.....	607,642	July 19	2054	427	84	435
Portable heater.....	J. P. Hoppert.....	613,514	Nov. 1	544	123	85	719
Portable house.....	E. L. Pease.....	602,194	Apr. 12	1058	231 232	83	213
Portable house.....	E. S. Young.....	611,309	Sept. 27	2134	494	84	1906
Portable screen.....	H. E. Newton.....	613,865	Nov. 8	1145	262	85	855
Portière or curtain pole.....	J. F. Baisley.....	600,852	Mar. 22	2219	506	82	1695
Portière-rod.....	J. Aitchison.....	604,648	May 24	2613	598	83	1173
Portière-support.....	L. A. Bennett and G. W. Loring.....	615,009	Nov. 29	3223	741	85	1302
Post:							
See Bicycle seat-post. Gate-post.							
Binding-post. Hitching-post.							
Fence-post. Saddle-post.							
Post and brace. Combined.....	J. B. Yohn.....	598,833	Feb. 8	1292	313	82	865
Post and winding apparatus. Combined.....	W. L. Yergin and J. E. Wadsworth.....	605,769	June 14	1286	298	83	1618
Post-base.....	G. W. Brown.....	611,293	Sept. 27	1988	459	84	1878
Post-brace.....	H. A. Hill.....	607,435	July 19	1504	320	84	323
Post depositing and collecting receptacle, &c.....	D. di B. Savorgnan.....	597,437	Jan. 18	1694	393 394	82	362
Post-driver.....	R. Heaton.....	610,811	Sept. 13	1210	278 279	84	1693
Post-driver.....	G. W. Tipton.....	607,577	July 19	1932	401	84	412
Post-driver.....	H. J. Whitener.....	615,330	Dec. 6	187	47, 48	85	1450
Post-driving machine.....	G. B. M. Deihl.....	601,196	Mar. 22	2786	637 638	82	1802
Post land-anchor.....	E. W. Hill.....	610,184	Sept. 6	63	13 751	84	1452
Postmarking and canceling machine.....	E. R. Malmborg.....	615,031	Nov. 29	3273	752 753 754	85	1311
Postmarking and stamp-canceling machine.....	E. M. Vail and G. Potter.....	606,257	June 28	2284	529	83	1842
Post-office-box cabinet.....	J. C. Keith.....	606,556	June 28	2831	652	83	1951
Post-winder.....	C. L. Etheridge.....	600,638	Mar. 15	1848	423	82	1611
Pot:							
See Annealing-pot. Flower-pot.							
Coffee-pot. Tea or coffee pot.							
Coffee or tea pot.							
Pot-bail holder.....	M. A. Cogley.....	606,276	June 28	2314	536	83	1849
Pot signal.....	H. Johnson.....	602,852	Apr. 26	2193	498	83	461
Potato-bug catcher.....	R. C. McClarran.....	598,532	Feb. 8	796	191	82	771
Potato-bug destroyer.....	C. Nelson and H. F. S. Justeson.....	604,631	May 24	2583	589	83	1167
Potato-bug harvester.....	W. A. Place.....	601,165	Mar. 22	2728	627	82	1791
Potato cutter and planter.....	J. A. Mengel, G. K. Binkley, and G. H. Gerber.....	606,291	June 28	2340	542	83	1854
Potato-digger.....	M. M. Baldwin.....	596,647	Jan. 4	334	72	82	66
Potato-digger.....	J. A. Buck.....	602,497	Apr. 19	1562	356	83	327
Potato-digger.....	A. S. Bullock.....	600,403	Mar. 8	1420	325	82	1510
Potato-digger.....	G. J. Liezen.....	612,854	Oct. 25	2268	541 542	85	477
Potato-digger.....	J. D. Perry.....	598,389	Feb. 1	542	132	82	705
Potato-digger.....	C. Schoenefeldt.....	612,439	Oct. 18	1497	361	85	312
Potato-digging machine.....	E. Hampel.....	605,871	June 21	1524	351	83	1680
Potato-digging machine.....	C. J. Moulton and A. J. Keeble.....	609,289	Aug. 16	2106	499	84	1094
Potato-masher, kettle-cleaner, and vegetable-fork. Combination.....	A. H. Cartwright.....	604,965	May 31	3152	725	83	1296
Potato-separator.....	D. E. Updegraff.....	615,325	Dec. 6	174	45, 46	85	1447
Potato-sprouter.....	E. A. Sanford.....	612,276	Oct. 11	1214	290	85	245
Potatoes. Preparing desiccated.....	J. G. Neumann.....	611,017	Sept. 20	1576	-----	84	1780
Potential-switch.....	J. D. Ihlder.....	614,472	Nov. 22	2240	513	85	1100
Pottery-molding machine.....	F. H. and C. D. Weeks.....	616,378	Dec. 20	2165	504 505	85	1867
Poultry-house.....	S. C. Ashmore.....	603,121	Apr. 26	2652	603	83	549
Pouncing-machine.....	G. R. Clarke.....	602,977	Apr. 26	2408	548 549	83	502
Pouncing-machine.....	G. R. Clarke.....	602,978	Apr. 26	2412	549 550	83	502
Powder-compressor.....	E. C. Clark.....	610,029	Aug. 30	3434	795	84	1383
Powder-distributor.....	C. C. Clawson.....	609,572	Aug. 23	2608	610	84	1208
Powder-distributor.....	C. C. Clawson.....	609,573	Aug. 23	2611	611	84	1209
Powder-distributor.....	A. Mazzanovich.....	600,547	Mar. 15	1709	391	82	1585



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Powder-distributing apparatus.....	P. T. Merrill.....	609,827	Aug. 30	3077	717	84	1313
Powder-divider.....	C. O. Appleby.....	598,970	Feb. 15	1543	367	82	929
Powder-divider.....	T. H. Nance.....	597,188	Jan. 11	1272	298	82	264
Powder-motor.....	T. M. Freeble.....	605,445	June 7	728	164 165	83	1493
Powder. Process of and apparatus for making smokeless	F. G. Du Pont. (Reissue).....	11,651	Feb. 15	2126	505	82	1039
Power: <i>See</i> Churn-power.      Tidal power. Crank-power.        Wave-power. Horse-power.							
Power. Apparatus for converting heat into.....	W. E. and E. F. Prall.....	610,459	Sept. 6	594	133	84	1553
Power distributing and equalizing device.....	R. Marvin.....	602,087	Apr. 12	861	187 188	83	175
Power from compressed gases. Process of and apparatus for generating	E. N. Dickerson.....	607,655	July 19	2081	434	84	439
Power generation. Motive.....	C. Guattari.....	609,430	Aug. 23	2352	554	84	1161
Power-house. Floating.....	J. Stickel.....	603,929	May 10	1249	284	83	859
Power-machine for pumps, &c.....	A. B. Hollingsworth and E. Robards	599,129	Feb. 15	1803	429	82	979
Power. Means for transmitting.....	T. Dagley.....	609,012	Aug. 16	1570	373	84	993
Power-transmitter.....	G. J. Altham.....	599,546	Feb. 22	2582	606 607	82	1150
Power-transmitter.....	H. A. Schry.....	598,014	Jan. 25	2687	627	82	571
Power-transmitting device.....	D. Ashman.....	610,151	Aug. 30	3619	841	84	1421
Power-transmitting device.....	J. G. Hailer.....	600,072	Mar. 1	813	187	82	1373
Power-transmitting device.....	I. Rudensky.....	609,050	Aug. 16	1651	394	84	1008
Power-transmitting device.....	G. L. Whyte.....	602,674	Apr. 19	1885	428 429	83	387
Power-transmitting gear. Convertible.....	J. L. Simmons.....	616,206	Dec. 20	1835	424	85	1801
Power-transmitting mechanism.....	G. J. Altham.....	599,545	Feb. 22	2578	604 605	82	1149
Power-transmitting mechanism.....	G. J. Capewell.....	612,822	Oct. 25	2199	522	85	465
Power-wheel.....	A. N. Blazer.....	611,098	Sept. 20	1722	395	84	1808
Prairie burner and extinguisher.....	J. Sindelar.....	611,712	Oct. 4	211	50, 51	85	44
Praying or confessional stand.....	H. F. Nehr.....	615,096	Nov. 29	3399	779 780	85	1333
Precious metals. Apparatus for extracting.....	J. R. Hebaus.....	603,904	May 10	1207	273	83	851
Precious metals. Apparatus for separating and saving	G. Griesche.....	599,701	Mar. 1	46	11	82	1225
Precious metals from rebellious ores. Extracting.....	J. Woolford.....	598,721	Feb. 8	1127	271	82	833
Precious metals from their ores. Extracting.....	S. Newhouse, A. J. Bettles, and T. Weir.	601,201	Mar. 22	2796	-----	82	1803
Precious metals from their ores. Extraction of.....	H. L. Sulman and F. L. Teed.....	610,616	Sept. 13	872	-----	84	1625
Precious metals from their solutions. Recovering.....	M. E. Waldstein.....	607,719	July 19	2179	-----	84	458
Precious metals. Means for extracting.....	J. P. Schuch, Jr.....	611,515	Sept. 27	2522	583	84	1978
Precipitating-safe.....	P. J. Donohue and J. F. Corker.....	597,372	Jan. 11	1580	367	82	325
Preserve-jar and cover therefor.....	A. Legrand.....	606,822	July 5	347	74	84	69
Preserving albuminous matters.....	P. G. Sanford.....	607,281	July 12	1222	-----	84	252
Preserving alimentary substances, &c.....	A. L. and A. W. Lawton.....	602,793	Apr. 19	2082	-----	83	424
Preserving alimentary substances. Apparatus for.....	A. Schörke.....	599,534	Feb. 22	2559	601	82	1145
Preserving food.....	O. de Santa Cruz.....	609,590	Aug. 23	2646	619	84	1215
Preserving fruit-juices.....	C. Graf.....	608,425	Aug. 2	466	-----	84	748
Preserving meats, &c.....	H. A. Lacroix and A. C. de Caudenberg.	611,918	Oct. 4	561	-----	85	111
Press: <i>See</i> Bale-tying press.      Meat-press. Baling-press.            Molding-press. Barrel-press.            Platen-press. Barrel-heading      Pop-corn press. press.                    Printer's proof-press. Button-punch press.      Printing-press. Celluloid-press.        Punching-press. Cider-press.            Reducing-press. Copying-press.        Rotary flat-bed press. Cotton-press.        Sand-press. Domestic press.        Seal-press. Drop-press.            Soap-press. Filter-press.            Stamping or punching Forging-press.        press. Fruit-press.            Stone-press. Glass-press.            Tobacco-press. Hay-press.            Veneer-press. Hydraulic press.        Wine-press. Make-ready press.							
Press.....	V. D. Anderson.....	602,928	Apr. 26	2330	530 531	83	488
Press.....	V. D. Anderson.....	602,929	Apr. 26	2334	531	83	488
Press.....	W. A. Traver.....	606,695	July 5	108	23	84	24
Press.....	S. J. Webb.....	615,769	Dec. 13	1014	236	85	1624
Press-board holder.....	L. Siegfried.....	602,708	Apr. 19	1942	441	83	398
Pressing and ironing board and stand.....	A. Rothrock.....	601,481	Mar. 29	3303	748	82	1928
Pressing cloth or fabric. Machine for.....	W. Hebdon.....	607,796	July 19	2312	489	84	483
Pressing-machine.....	P. Lorillard, Jr., and E. G. Tremaine.	615,397	Dec. 6	345	82, 83	85	1479
Pressing-machine.....	E. G. Tremaine and P. Lorillard, Jr.	606,478	June 28	2684	618 619	83	1921
Pressure and vacuum gage.....	J. Jackson.....	608,199	Aug. 2	60	14	84	666
Pressure-apparatus tank.....	E. Sheridan.....	610,333	Sept. 6	373	79	84	1512
Pressure-gage.....	C. B. Bosworth and J. H. Millett.....	596,674	Jan. 4	381	85, 86	82	76
Pressure-gage.....	C. L. Burdick.....	599,682	Mar. 1	11	3	82	1219
Pressure-gage.....	T. Thomson.....	611,657	Oct. 4	113	28	85	25
Pressure-gages. Apparatus for testing.....	J. B. Edson.....	596,581	Jan. 4	213	47	82	42
Pressure indicating and recording gage.....	F. A. Jones.....	596,599	Jan. 4	252	56	82	50
Pressure indicator or power-gage. Mean.....	G. F. Atwood.....	607,819	July 26	2385	506 507	84	516
Pressure or vacuum gage.....	W. Stagg.....	598,030	Jan. 25	2711	632 633	82	575
Pressure-recorder.....	F. L. Wolfe.....	603,391	May 3	252	56	83	648



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pressure-regulating apparatus .....	W. G. Freer .....	613,030	Oct. 25	2544	605	85	533
Pressure-regulator .....	F. A. Daley .....	612,800	Oct. 18	2150	510	85	437
Pressure-regulator .....	J. C. Witt .....	615,120	Nov. 29	3437	511	85	1341
Primary battery .....	J. E. Fuller .....	600,850	Mar. 15	2208	789	82	1679
Primary battery .....	H. K. Hess .....	615,172	Nov. 29	3531	504	85	1361
Primary battery .....	C. J. and H. C. Hubbell .....	597,239	Jan. 11	1353	505	82	278
Primary battery .....	C. Koenig .....	614,012	Nov. 8	1380	812	85	902
Primary battery .....	W. Rowbotham .....	609,298	Aug. 16	2123	316	84	1097
Primary element with regenerable negative electrode.	O. R. E. von Burgwall and L. Ofenschüssl.	603,890	May 10	1184	503	83	846
Primer. Ordnance-.....	T. G. Bennett .....	606,440	June 28	2627	504	83	1910
Printed matter. Machine for composing .....	F. A. Johnson .....	611,203	Sept. 20	1906	604	84	1842
Printers' blankets. Apparatus for washing .....	C. Chatburn and J. Ashcroft .....	614,087	Nov. 15	1509	439	85	949
Printers' blankets. Apparatus for washing .....	J. Hawthorn and J. P. Liddell .....	603,638	May 10	731	440	83	759
Printers' blankets, &c. Apparatus for washing .....	A. B. Wimpenny .....	611,161	Sept. 20	1841	441	84	1831
Printers' blankets. Machine for washing .....	D. H. Simpson, J. Walker, J. Strang, and F. Farnworth.	604,504	May 24	2365	163	83	1125
Printer's case .....	W. Haestrup .....	616,231	Dec. 20	1891	164	85	1813
Printer's chase .....	B. B. Blackwell .....	596,954	Jan. 4	870	436	82	169
Printer's chase .....	D. J. Deegan .....	602,679	Apr. 19	1892	437	83	388
Printer's chase .....	J. Tunnah .....	603,214	Apr. 26	2799	481	83	577
Printers' forms. Lock-up for .....	A. T. H. Brower .....	596,845	Jan. 4	680	639	82	132
Printer's proof-press .....	F. Wesel .....	608,813	Aug. 9	1178	157	84	902
Printers' rolls. Mold for making calico-.....	E. Emerson .....	614,245	Nov. 15	1812	275	85	1004
Printer's stick-frame .....	H. Goldzier .....	616,782	Dec. 27	2920	276	85	2034
Printer's type-case .....	W. N. Clapp .....	613,919	Nov. 8	1230	679	85	871
Printing and collecting or assembling numbered checks or leaves.	E. A. Henkle .....	614,809	Nov. 22	2830	280	85	1210
Printing and folding machine .....	J. A. Pyron .....	614,980	Nov. 29	3178	651	85	1294
Printing and folding machine .....	N. A. Stimson .....	606,397	June 28	2538	652	83	1891
Printing apparatus. Check-.....	S. Schwarzschild .....	615,107	Nov. 29	3418	588	85	1337
Printing. Apparatus for bending form-plates for .....	J. W. Osborne .....	608,706	Aug. 9	965	589	84	865
Printing attachment. Paper-roll-.....	A. R. Martin .....	605,061	May 31	3317	784	83	1327
Printing-blocks in copper, nickel, &c. Manufacturing .....	L. Boudreaux .....	608,248	Aug. 2	140	222	84	682
Printing bulletins, posters, &c. Machine for .....	G. S. Heath and M. L. Severy .....	616,233	Dec. 20	1894	223	85	1814
Printing device for paper-roll holders .....	C. H. Long .....	596,891	Jan. 4	749	761	82	146
Printing device. Hand .....	R. H. Smith and W. F. Tripp .....	600,239	Mar. 8	1153	762	82	1460
Printing. Discharge .....	H. Züblin and A. Zingg .....	601,420	Mar. 29	3206	82	82	1909
Printing fabrics .....	T. F. Stimpson .....	599,134	Feb. 15	1814	82	82	981
Printing in colors. Machine for .....	B. F. Bower and W. H. Kennell .....	613,488	Nov. 1	505	114	85	712
Printing index-rings. Machine for .....	C. H. Veeder .....	602,412	Apr. 12	1420	321	83	286
Printing. Intaglio .....	G. R. Cornwall .....	607,915	July 26	2578	84	84	552
Printing-machine .....	O. S. Bowman .....	597,944	Jan. 25	2564	599	82	547
Printing-machine .....	G. R. Cornwall .....	614,090	Nov. 15	1513	600	85	949
Printing-machine .....	C. P. Cottrell .....	614,243	Nov. 15	1808	346	85	1003
Printing-machine .....	E. Fischer .....	614,541	Nov. 22	2342	347	85	1118
Printing-machine .....	S. G. Goss .....	612,966	Oct. 25	2449	536	85	513
Printing-machine .....	B. Huber .....	608,153	July 26	2991	537	84	635
Printing-machine .....	A. H. Ray .....	607,131	July 12	932	641	84	198
Printing-machine .....	W. Scott .....	612,873	Oct. 25	2305	642	85	484
Printing-machine .....	G. W. Swift, Jr .....	602,277	Apr. 12	1192	202	83	240
Printing machine. Automatic stencil-.....	A. B. Dick .....	596,653	Jan. 4	346	263	82	69
Printing-machine. Bed and cylinder .....	G. T. Murray .....	602,406	Apr. 12	1413	76	83	284
Printing machine. Box-.....	J. F. Gilliland .....	603,685	May 10	806	319	83	774
Printing machine. Color-.....	W. H. Waldron .....	615,596	Dec. 6	698	178	85	1549
Printing-machine cushioning apparatus .....	J. T. Hawkins .....	604,752	May 31	2811	161	83	1229
Printing machine. Fabric-.....	S. H. Sharp .....	599,948	Mar. 1	510	642	82	1310
Printing machine. Hat-.....	T. J. McCarthy .....	604,778	May 31	2851	115	83	1237
Printing machine. Newspaper-wrapper-.....	T. Wolfe .....	614,919	Nov. 29	3040	116	85	1265
Printing machine. Plate-.....	J. P. Stevens .....	616,028	Dec. 13	1473	652	85	1713
Printing-machine sheet-delivery mechanism .....	E. Nister .....	602,238	Apr. 12	1126	696	83	226
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	612,831	Oct. 25	2228	697	85	470
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	615,253	Dec. 6	46	530	85	1421
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	615,254	Dec. 6	52	531	85	1421
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	615,255	Dec. 6	55	532	85	1422
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	615,256	Dec. 6	58	533	85	1423



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	615,257	Dec. 6	60	16, 17	85	1424
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	615,258	Dec. 6	64	18, 19	85	1425
Printing-machine staple-binding delivery mechanism.	L. C. Crowell .....	615,259	Dec. 6	69	19, 20	85	1426
Printing machine. Stencil .....	F. D. Belknap .....	609,402	Aug. 23	2307	{ 544 545	{ 84	1152
Printing machine. Stencil .....	F. D. Belknap .....	613,405	Nov. 1	351	81	85	682
Printing-machine web-controlling device .....	J. H. Moody .....	598,107	Feb. 1	65	15	82	615
Printing-machines. Bed-motion for cylinder .....	W. C. Duryea .....	602,840	Apr. 26	2172	492	83	457
Printing-machines. Means for preventing offset in .....	C. E. Pattberg .....	613,045	Oct. 25	2570	610	85	538
Printing of music and apparatus for exposing same to readers.	C. Gerandal .....	607,789	July 19	2301	485	84	481
Printing on mixed goods .....	H. N. F. Schaeffer .....	614,237	Nov. 15	1797		85	1002
Printing on wood. Machine for .....	G. C. Halblaub .....	597,975	Jan. 25	2617	{ 611 612 613	{ 82	558
Printing patterns. Cliché for .....	E. Quennoy .....	603,578	May 3	605	135	83	719
Printing-plate and apparatus for making same. Composite	G. W. Turner and A. F. W. Leslie .....	613,786	Nov. 8	1003	229	85	828
Printing-plate and making same. Composite .....	S. H. Horgan .....	604,472	May 24	2306	524	83	1115
Printing-plates. Preparing aluminium .....	O. C. Strecker .....	597,366	Jan. 11	1567		82	322
Printing-plates to cylindrical surfaces. Means for securing	J. T. Hawkins .....	604,149	May 17	1692	380	83	978
Printing-press .....	A. S. Allen .....	613,220	Oct. 25	2878	679	85	598
Printing-press .....	H. F. Bechman .....	604,293	May 17	1953	{ 438 439 728	{ 83	1029
Printing-press .....	G. P. Fenner .....	604,974	May 31	3166	{ 729 730	{ 83	1298
Printing-press .....	C. H. Heywood .....	613,271	Nov. 1	82	19, 20	85	632
Printing-press .....	J. T. King .....	599,102	Feb. 15	1753	{ 416 417 418	{ 82	971
Printing-press .....	J. F. McNutt .....	597,651	Jan. 18	2056	481	82	434
Printing-press .....	J. F. McNutt .....	597,652	Jan. 18	2058	481	82	435
Printing-press .....	R. Miehle .....	611,923	Oct. 4	568	198	85	112
Printing-press .....	C. F. Owen .....	615,887	Dec. 13	1196	{ 280 281	{ 85	1659
Printing-press .....	L. M. Rouse .....	606,878	July 5	450	96	84	89
Printing-press .....	A. H. Smith .....	605,350	June 7	567	125	83	1460
Printing-press .....	S. Whitlock .....	599,990	Mar. 1	572	132	82	1321
Printing-press air-cushioning device .....	T. M. North .....	600,164	Mar. 8	1032	232	82	1436
Printing-press anti-offsetting apparatus .....	T. Regensteiner .....	615,636	Dec. 6	774	{ 179 180 181	{ 85	1565
Printing-press. Bed-and-cylinder .....	C. Potter .....	615,897	Dec. 13	1218	285	85	1663
Printing press. Color- .....	S. Klotz .....	606,891	July 5	465	{ 99 100	{ 84	92
Printing-press counting apparatus .....	S. G. Goss .....	612,967	Oct. 25	2452	585	85	514
Printing-press feed-gage .....	C. E. Balding .....	603,246	May 3	7	2	83	602
Printing-press for cutting ribbons and counting same.	F. Berkemeyer .....	605,173	June 7	205	51, 52	83	1389
Printing-press. Perfecting .....	H. P. Feister .....	602,396	Apr. 12	1396	{ 313 314 315	{ 83	281
Printing-press sheet-delivery mechanism .....	R. W. Jamieson .....	597,114	Jan. 11	1157	272	82	241
Printing-press shifting tympan .....	H. F. Bechman .....	613,055	Oct. 25	2594	615	85	543
Printing-press shifting tympan .....	H. F. Bechman .....	613,056	Oct. 25	2598	{ 615 616	{ 85	544
Printing-press tympan .....	A. S. Allen .....	613,217	Oct. 25	2872	678	85	597
Printing-press tympan. Platen .....	F. A. Burnham .....	597,952	Jan. 25	2582	603	82	551
Printing-press tympan-surface .....	A. S. Allen .....	613,219	Oct. 25	2877	678	85	598
Printing-presses. Automatic stop mechanism for .....	G. Gibbs and I. Stone .....	605,478	June 14	776	178	83	1522
Printing-presses, &c. Gripper for .....	D. S. Clark .....	612,705	Oct. 18	1977	469	85	402
Printing-presses. Impression throw-off for platen .....	F. A. Burnham .....	604,719	May 31	2760	631	83	1219
Printing-presses, &c. Make-ready device for .....	A. S. Allen .....	613,221	Oct. 25	2880	679	85	598
Printing-presses. Means for actuating ink-disks in platen	F. A. Burnham .....	603,496	May 3	469	104	83	691
Printing-presses. Means for securing chases in platen	F. A. Burnham .....	597,928	Jan. 25	2530	591	82	540
Printing representations of woven fabrics .....	A. B. Sherwood .....	609,748	Aug. 23	2928	{ 684 685	{ 84	1270
Printing telegraphic messages. Apparatus for .....	G. M. Gibson .....	611,448	Sept. 27	2403	552	84	1954
Printing-tympan .....	A. S. Allen .....	613,218	Oct. 25	2874	678	85	597
Printing. Type and type-holder for box- .....	J. F. Ames .....	608,746	Aug. 9	1034	236	84	878
Printing yarns. Method of and apparatus for .....	C. L. Horack .....	603,992	May 10	1346	308	83	878
Privy-stool .....	W. G. Bliss .....	604,597	May 24	2528	575	83	1156
Produce-carrier .....	R. C. Weltner .....	603,000	Apr. 26	2449	558	83	509
Profiling-machine .....	T. Webster and A. E. Bennett .....	611,300	Sept. 27	2118	488	84	1902
Profiling-machine .....	J. H. Wesson .....	600,391	Mar. 8	1401	{ 320 321	{ 82	1506
Projectile .....	P. Borelli .....	609,003	Aug. 16	1557	370	84	990
Projectile .....	J. H. Hammer .....	603,466	May 3	401	90	83	678
Projectile. Armor-piercing .....	H. A. Brustlein .....	602,972	Apr. 26	2401	548	83	501
Projectile. Shrapnel .....	M. Darmancier .....	603,525	May 3	532	117	83	703
Projectiles. Appliance for producing case-shot-like action of explosive	A. Weigner .....	608,941	Aug. 9	1424	336	84	949
Projectiles. Machine for applying jackets to .....	M. C. Lisle .....	613,635	Nov. 1	735	171	85	757
Projectiles. Tongs for handling .....	C. F. Jeansén .....	604,758	May 31	2820	644	83	1231
Proof-taking and type-bar-casting machine .....	H. R. Rogers .....	613,724	Nov. 8	891	{ 206 207	{ 85	806
Propeller .....	E. S. Beck .....	612,511	Oct. 18	1611	385	85	334
Propeller .....	S. W. Carter and W. C. Buhles .....	606,986	July 5	606	132	84	120
Propeller .....	C. J. H. Flindt .....	610,039	Aug. 30	3454	800	84	1386



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Propeller	J. V. O'Connor	603,703	May 10	836	185	83	779
Propeller	G. Sintz	612,618	Oct. 18	1827	433 434	85	375
Propeller. Automatic feathering-blade	C. E. Olsen	608,265	Aug. 2	164	40	84	687
Propeller-blades. Feathering and sheathing	J. Ferguson	598,337	Feb. 1	465	110	82	690
Propeller. Boat	W. H. Knapp	596,754	Jan. 4	532	122	82	103
Propeller. Chain	W. Dodge	611,467	Sept. 27	2445	563	84	1962
Propeller. Chain	J. M. Mays	599,451	Feb. 22	2413	567	82	1118
Propeller. Chain	W. S. Winsor	599,050	Feb. 15	1677	397	82	957
Propeller for boats or vessels	A. L. Fuss	599,293	Feb. 15	2077	492 493	82	1030
Propeller for vessels. Reciprocating	J. and H. W. Ritchie	610,370	Sept. 6	445	97	84	1524
Propeller for vessels. Reciprocating	J. and H. W. Ritchie	610,371	Sept. 6	447	98	84	1524
Propeller. Marine	E. A. Warren	615,006	Nov. 29	3219	740	85	1302
Propeller-pipes. Self-acting closing device for	J. G. Pinkert	607,548	July 19	1882	391	84	403
Propeller. Reversible-blade	C. W. Foster	602,902	Apr. 26	2270	517 518	83	475
Propeller. Screw	J. M. Adam	602,651	Apr. 19	1832	418	83	377
Propeller. Screw	A. H. Carpenter	597,632	Jan. 18	2022	472	82	428
Propeller. Screw	T. Makepeace and A. S. Fowles	613,211	Oct. 25	2865	674 675	85	596
Propeller. Screw	J. McKechnie	615,094	Nov. 29	3398	778 779	85	1333
Propeller. Screw	W. J. Perkins	606,297	June 28	2352	544	83	1856
Propeller. Screw	W. J. Wanless	612,598	Oct. 18	1772	418	85	363
Propeller. Screw	P. A. N. Winand	606,322	June 28	2398	555	83	1865
Propeller-shafts. Friction-lessening device and brake for	G. M. Guerrant	605,545	June 14	876	205	83	1542
Propeller-wheels, &c. Device for reversing motion of	G. E. Tregurtha	611,187	Sept. 20	1880	434	84	1838
Propelling and steering apparatus. Hydrostatic vessel	F. Krefft	602,224	Apr. 12	1108	243	83	223
Propelling and steering boats	T. G. Bowick	612,539	Oct. 18	1659	394	85	343
Propelling boats. Electrical device for	L. R. Jones	600,874	Mar. 22	2252	513	82	1701
Propelling launches by wind-power	H. Stelzmann and C. Jonas	613,608	Nov. 1	696	160 161	85	749
Propelling means for vessels. Pneumatic	A. J. Culbertson	608,757	Aug. 9	1050	240	84	881
Propelling mechanism	W. P. Dickinson	611,679	Oct. 4	152	37	85	33
Propelling mechanism	G. L. Galbrun	602,440	Apr. 19	1475	336	83	310
Propelling mechanism. Boat	J. Hewson	609,026	Aug. 16	1597	380	84	997
Propelling mechanism. Boat	S. S. Stevens	607,965	July 26	2659	568	84	568
Propelling mechanism. Ice-boat	M. Kennedy	613,281	Nov. 1	105	24	85	636
Propelling mechanism. Vessel	F. Gray	605,782	June 14	1332	305	83	1625
Propelling mechanism. Vessel	A. D. Tyrell	612,534	Oct. 18	1651	392	85	341
Propelling ships, &c. Device for	C. J. D'Urban	606,653	July 5	30	7	84	8
Propelling vessels. Means for	H. H. Fefel	599,125	Feb. 15	1797	428	82	978
Proportional meter	T. B. Wylie	596,953	Jan. 4	867	203 204	82	169
Propulsion. Marine	E. W. Mitchell	611,182	Sept. 20	1870	431 432	84	1836
Propulsion. Marine screw	L. Hachenberg	598,421	Feb. 1	617	151 152	82	720
Propulsion of vessels. System of electrical	J. J. Heilmann	602,325	Apr. 12	1276	282	83	257
Prospecting tool and drill	J. Bradley, T. W. Otto, and J. L. Wolfe.	615,794	Dec. 13	1055	248	85	1631
Prospecting-wheel	W. H. P. Jones	616,335	Dec. 20	2079	484 485	85	1850
Protector.							
<i>See</i> Face-protector.	Skirt-protector.						
Finger-ring protector.	Thread-protector.						
tor.	Tree-protector.						
Head protector.	Trousers-protector.						
Shaft protector.	Trunk-protector.						
Protector	H. K. Follansbee	613,134	Oct. 25	2713	641	85	566
Protracting land surveys. Device for	J. D. Brown	604,517	May 24	2387	542	83	1129
Protractor	A. W. Chase	601,630	Apr. 5	10	3	83	4
Protractor	M. S. Hoy	606,344	June 28	2444	566	83	1873
Provision rack	T. C. Loudon	600,879	Mar. 22	2264	516	82	1703
Prune-dipper	F. C. Chapman	597,633	Jan. 18	2023	472	82	428
Prunes for drying. Apparatus for preparing	W. C. Anderson	610,377	Sept. 6	455	99	84	1526
Pruning implement	L. N. Dobbins	611,065	Sept. 20	1650	377	84	1794
Pruning implement	F. H. Duesler	597,538	Jan. 18	1867	433	82	397
Pruning implement	A. H. Knight	612,347	Oct. 11	1344	325	85	269
Pruning implement	G. Le Sage	596,890	Jan. 4	748	177	82	146
Pruning implement	J. L. Manning	598,428	Feb. 1	626	154	82	721
Pruning shears	J. R. Huff	613,801	Nov. 8	1038	236	85	834
Pruning shears	J. Simon	613,870	Nov. 8	1159	266	85	858
Pruning shears	N. R. Whitacre	607,388	July 12	1410	301	84	289
Pruning shears handle	R. J. Thompson	608,490	Aug. 2	569	127	84	768
Pruning shears handle	R. J. Thompson	608,491	Aug. 2	570	127	84	768
Puff box	M. Fick	599,775	Mar. 1	177	43	82	1249
Puffing machine. Fabric	J. A. Groebli	599,328	Feb. 22	2160	513	82	1068
Puller:							
<i>See</i> Cork puller.	Staple puller.						
Nail puller.	Stump puller.						
Spike puller.	Tire puller.						
Sprout puller.	Tree or vine puller.						
Pulley	H. F. Arnold	606,908	July 5	488	105	84	97
Pulley	J. C. Knoblock	605,104	June 7	65	19	83	1364



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Pulley	H. S. Pell	605,557	June 14	899	209	83	1546
Pulley	C. Rocholl	610,724	Sept. 13	1050	241	84	1661
Pulley	A. Schiminsky	609,976	Aug. 30	3340	777	84	1364
Pulley	E. Shmitz	597,531	Jan. 18	1855	490	82	395
Pulley	A. Sharp	612,144	Oct. 11	977	236	85	201
Pulley and device for securing same to shafts	Z. Auger	610,576	Sept. 13	806	184	84	1610
Pulley and means for attaching same to shafts.	A. W. Nelson	615,883	Dec. 13	1189	278	85	1658
Loose							
Pulley. Ball-bearing	J. W. Parkin	613,712	Nov. 8	871	201	85	803
Pulley. Belt-	P. Rupp	614,310	Nov. 15	1915	442	85	1024
Pulley-block	I. M. Dotson	610,172	Sept. 6	35	8	84	1448
Pulley-block	F. D. Gosnell and J. E. Thomas	598,776	Feb. 8	1208	293	82	849
Pulley-bushing	W. R. Fox	614,166	Nov. 15	1647	379	85	974
Pulley. Expansible	T. Kirchhoff	601,660	Apr. 5	65	13	83	14
Pulley for power transmission	J. C. Pratt	616,630	Dec. 27	2627	609	85	1975
Pulley. Friction-	J. Gillet	615,268	Dec. 6	88	24	85	1430
Pulley. Friction clutch-	W. J. Fletcher	614,264	Nov. 15	1847	427	85	1011
Pulley. Grip-	A. Davy and T. G. S. Rogers	607,986	July 26	2700	576	84	375
Pulley. Grip-	A. S. Hallidie	610,353	Sept. 6	407	87	84	1518
Pulley. Grooved	C. Rocholl	606,794	July 5	301	63	84	60
Pulley-hub	T. Corscaden	612,022	Oct. 11	770	190	85	161
Pulley lubricator. Loose-	G. B. Hyde	615,181	Nov. 29	3547	815	85	1364
Pulley or sheave	J. Kibin	597,063	Jan. 11	1064	249	82	224
Pulley. Power-	C. F. Endter	603,840	May 10	1089	243	83	828
Pulley. Self-oiling	F. H. Spear	605,980	June 28	1739	400	83	1720
Pulley. Self-oiling loose	C. W. H. Blood	613,657	Nov. 8	767	176	85	784
Pulley. Self-oiling loose	G. F. Kenny	607,690	July 19	2133	448	84	449
Pulley, toothed wheel, &c	F. R. Simms	610,002	Aug. 30	3389	786	84	1374
Pulleys. Speed-varying mechanism for	G. Smethurst	611,948	Oct. 4	615	150	85	120
Pulp beating and cleaning apparatus. Wood-	E. D. Speer	597,752	Jan. 25	2231	519	82	484
Pulp-grinder	A. W. Priest	616,728	Dec. 27	2841	658	85	2019
Pulp-grinding machine. Wood-	A. Tromblee	597,208	Jan. 11	1307	305	82	270
Pulp-making. Wood-grinder for	B. Eilers	607,026	July 12	699	151	84	158
					152		
Pulp-making. Wood-grinder for	B. Eilers	607,164	July 12	993	214	84	209
					215		
Pulp-molding machine	C. D. Ormiston	598,005	Jan. 25	2674	624	82	568
Pulp-screen	D. R. Davis	612,404	Oct. 18	1435	346	85	300
					347		
Pulp-screen	D. R. Davis	612,405	Oct. 18	1437	347	85	301
					348		
Pulpware. Manufacture of	H. Thame	610,567	Sept. 13	794	181	84	1607
Pulp-wood barkers. Feed attachment for	A. O. Lombard	612,611	Oct. 18	1816	431	85	373
					432		
Pulverizer	H. S. Albrecht	604,283	May 17	1939	434	83	1026
Pulverizer	W. Z. Brown	612,818	Oct. 25	2191	521	85	464
Pulverizer	W. H. Howe and P. Stiefferman	602,329	Apr. 12	1282	284	83	259
Pulverizer	W. A. and J. R. Raudabaugh	610,919	Sept. 20	1392	319	84	1745
Pulverizer	J. W. Rigg	614,761	Nov. 22	2749	627	85	1194
Pulverizer and harrow	A. V. Nelson	610,456	Sept. 6	589	131	84	1552
Pulverizer. Centrifugal	F. André	600,473	Mar. 8	1551	357	82	1534
Pulverizing-mill. Roller	G. R. King and A. Raymond	600,876	Mar. 22	2259	515	82	1702
Pump	L. d'Auria	603,884	May 10	1171	264	83	844
					265		
Pump	D. Craig	608,361	Aug. 2	346	75	84	724
Pump	D. Dieckmann	612,834	Oct. 25	2238	535	85	471
Pump	H. W. Kimes	614,396	Nov. 15	2088	481	85	1057
Pump	H. W. Kimes	616,849	Dec. 27	3039	706	85	2059
Pump	A. W. Mauldin	600,545	Mar. 15	1705	390	82	1584
					391		
Pump	G. G. McLaughlin	608,003	July 26	2752	584	84	589
Pump	J. O'Neil	602,869	Apr. 26	2214	501	83	466
Pump	E. H. Oderman	600,841	Mar. 15	2193	501	82	1676
Pump	M. D. Temple	597,155	Jan. 11	1220	287	82	253
Pump	M. L. G. Wheeler	601,920	Apr. 5	568	118	83	108
Pump	C. G. White	602,492	Apr. 19	1557	354	83	326
Pump	C. C. Worthington	597,368	Jan. 11	1572	366	82	323
Pump	C. A. Wright	597,076	Jan. 11	1094	259	82	229
Pump. Air-	H. H. Walls	613,180	Oct. 25	2784	657	85	581
Pump. Air lift-	W. L. Saunders	597,023	Jan. 11	990	233	82	208
Pump and water-motor. Combined rotary	F. Bovio	616,397	Dec. 20	2196	513	85	1874
Pump attachment	C. R. West and R. Cowan	614,681	Nov. 22	2611	593	85	1165
Pump. Balance-	W. Borrman	613,233	Nov. 1	11	3	85	619
Pump. Breast-	J. H. Hoover	603,564	May 3	589	131	83	715
Pump. Cattle-	C. V. Eggleston	597,639	Jan. 18	2030	474	82	430
Pump. Cattle-	J. C. Stinson	607,775	July 19	2273	480	84	476
Pump. Centrifugal	W. Jennings	616,576	Dec. 27	2533	586	85	1958
Pump. Centrifugal	J. Richards	607,133	July 12	936	203	84	199
Pump. Combined lift, force, and test	E. Noppel	596,713	Jan. 4	457	103	82	89
Pump. Compression-	V. E. Cohen	599,831	Mar. 1	299	67	82	1269
Pump connection	F. M. Stevens	615,509	Dec. 6	554	126	85	1519
Pump. Convertible	F. J. Wenker	611,424	Sept. 27	2368	544	84	1947
Pump-curb reservoir	C. A. Bartliff	616,394	Dec. 20	2191	511	85	1872
Pump. Diaphragm	N. A. Wahtola	598,830	Feb. 8	1286	311	82	864
Pump. Diaphragm-	N. A. Wahtola	599,273	Feb. 15	2035	482	82	1023
					483		
Pump. Direct-acting steam-	A. F. Hall	604,613	May 24	2553	583	83	1162
Pump. Displacement	F. H. Merrill	609,943	Aug. 30	3268	763	84	1350
Pump. Double-acting	E. S. Barzee	616,819	Dec. 27	2981	695	85	2047
Pump. Dredging and mining	L. D. Libbey	599,104	Feb. 15	1759	418	82	972
					419		
Pump. Fluid-	W. D. May	613,381	Nov. 1	296	68	85	674
Pump for Artesian wells. Double-acting lift and force	S. B. Jones	614,172	Nov. 15	1654	380	85	975
Pump for raising and forcing liquids	R. Addison	598,466	Feb. 1	678	166	82	731



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pump for moist air or gases. Vertical air-----	C. L. Newcomb-----	613,466	Nov. 1	451	102 103	85	702
Pump. Force-----	H. Bender-----	615,470	Dec. 6	476	111	85	1504
Pump. Force-----	T. E. Martin-----	599,004	Feb. 15	1594	378 379	82	940
Pump governor. Steam-----	W. B. Mason-----	603,026	Apr. 26	2489	564	83	517
Pump-head-----	T. Burke-----	599,073	Feb. 15	1712	406	82	963
Pump. Helico-centrifugal-----	A. Maginot-----	605,888	June 21	1559	358 359	83	1687
Pump. Hydraulic-----	C. F. Carty-----	610,798	Sept. 13	1189	274	84	1689
Pump. Hydraulic-----	L. Dunn and C. C. Hawley-----	600,195	Mar. 8	1085	245	82	1446
Pump. Hydraulic-----	H. F. Schroeder-----	602,666	Apr. 19	1871	425	83	384
Pump. Hydraulic air-compressing-----	E. H. Weatherhead-----	603,242	Apr. 26	2854	651	83	587
Pump. Hydraulic-pressure-----	T. A. Kughler and J. Gomes-----	604,767	May 31	2832	647	83	1233
Pump journal-box. Rotary-----	R. C. Enyart-----	607,114	July 12	900	195	84	193
Pump. Measuring-----	M. J. Wine-----	597,477	Jan. 18	1775	411	82	378
Pump-nipple-----	W. H. Perkins-----	596,787	Jan. 4	588	136	82	113
Pump. Oil-----	F. C. Smith-----	608,274	Aug. 2	179	43	84	690
Pump. Oil-well-----	W. J. Wright-----	599,544	Feb. 22	2576	604	82	1148
Pump. Oil-well-----	W. J. Wright-----	604,202	May 17	1793	404	83	998
Pump-operating motor-----	J. W. Weddel, H. Jewett, W. L. Taylor, and D. A. Bellis.	609,565	Aug. 23	2597	607	84	1206
Pump or engine valve-----	G. de Laval-----	601,059	Mar. 22	2360	584	82	1759
Pump-piston-----	W. D. Forsyth and J. S. Thompson-----	616,308	Dec. 20	2031	473	85	1842
Pump-plunger-----	J. H. Goss-----	609,185	Aug. 16	1896	451	84	1050
Pump. Portable-----	W. G. Gass and J. Tonge-----	604,579	May 24	2502	569	83	1151
Pump pressure-regulator. Air-----	A. N. Carver-----	614,535	Nov. 22	2333	535	85	1116
Pump. Pulsating steam-----	W. T. Ellison-----	607,357	July 12	1349	288	84	278
Pump regulator. Steam-----	J. C. Dean-----	609,386	Aug. 16	2265	535	84	1125
Pump. Rotary-----	P. K. Wood-----	616,646	Dec. 27	2670	619	85	1984
Pump. Rotary-----	W. M. Wood-----	603,805	May 10	1016	227	83	815
Pump. Rotary sand-----	J. Mann-----	610,992	Sept. 20	1531	351	84	1771
Pump. Sand-----	V. Hanson-----	610,325	Sept. 6	354	75	84	1509
Pump spring attachment-----	J. O. Bane-----	609,000	Aug. 16	1553	369	84	989
Pump. Steam-----	J. B. Rhodes-----	606,844	July 5	394	84	84	78
Pump. Steam vacuum-----	F. R. Crumbaker-----	602,498	Apr. 19	1564	356	83	327
Pump system for circulating refrigerating liquors-----	W. M. Mixer-----	612,567	Oct. 18	1721	408	85	354
Pump-top. Convertible-----	J. W. Weddel-----	611,301	Sept. 27	2119	489	84	1903
Pump valve-gear-----	J. Doherty-----	606,480	June 28	2688	620	83	1922
Pump valve mechanism. Steam-----	G. de Laval-----	604,475	May 24	2310	524	83	1116
Pump valve-movement-----	H. B. Gale-----	607,845	July 26	2443	519	84	526
Pump valve-movement-----	C. C. Worthington-----	607,902	July 26	2550	541 542	84	547
Pump valve. Steam-----	N. W. Corey, Jr-----	608,181	Aug. 2	22	6	84	658
Pump. Vertical suction-----	N. A. Smithwick-----	613,730	Nov. 8	911	209	85	810
Pumps. Accessory for use in conjunction with air-----	H. R. Goodwin-----	612,097	Oct. 11	903	219	85	187
Pumps. Adjustable cut-off for steam-----	V. H. Rood-----	610,975	Sept. 20	1492	340	84	1764
Pumps and hose to strainers. Device for attaching force-----	J. T. Brady-----	597,259	Jan. 11	1386	324	82	285
Pumps. Automatic relief-valve for-----	W. P. Dallett-----	615,812	Dec. 13	1084	254	85	1638
Pumps. Chamber for-----	C. Steier-----	611,823	Oct. 4	407	97	85	80
Pumps. Means for suspending air-----	N. A. Christensen-----	607,217	July 12	1091	235	84	227
Pumps. Power-frame for-----	R. J. Hunter-----	602,849	Apr. 26	2190	497	83	460
Pumps. Pressure-actuated governor for-----	J. H. MacDonald-----	601,664	Apr. 5	71	14	83	15
Pumps to barrels. Clamp for securing-----	W. Peoples-----	604,263	May 17	1906	426	83	1020
Pumping and winding machinery. Combined-----	J. Symington-----	611,085	Sept. 20	1696	390	84	1803
Pumping apparatus-----	H. G. Johnson-----	600,425	Mar. 8	1456	332	82	1517
Pumping apparatus-----	T. E. Jones-----	615,992	Dec. 13	1409	329	85	1700
Pumping apparatus-----	E. P. Williams-----	615,331	Dec. 6	189	48	85	1450
Pumping apparatus for water-distributing systems-----	E. Neff-----	608,991	Aug. 9	1512	357 358	84	966
Pumping apparatus. Wave-power-----	J. E. and W. Armstrong-----	610,013	Aug. 30	3405	789	84	1377
Pumping apparatus. Well-----	G. Allen-----	612,184	Oct. 11	1046	251	85	214
Pumping-engine-----	C. N. Scott-----	609,950	Aug. 30	3282	765	84	1353
Pumping-engine. Pneumatic-----	E. A. Rix-----	605,187	June 7	231	56	83	1394
Pumping-jack-----	C. P. Gano-----	607,925	July 26	2597	551	84	556
Pumping-jack-----	O. U. Stahlman-----	602,482	Apr. 19	1542	350 351	83	323
Pumping-machine. Pneumatic-----	J. S. Smith-----	615,760	Dec. 13	990	231 232	85	1619
Pumping-rig coupling. Well-----	R. Carothers and A. Wehr-----	600,713	Mar. 15	1987	452	82	1636
Pumping-rigging. Oil-well-----	W. Wright-----	614,684	Nov. 22	2616	594	85	1166
Pumping-wells. Trap for-----	H. Etheridge-----	609,269	Aug. 16	2070	491	84	1087
Punch-----	W. S. How-----	612,665	Oct. 18	1910	452	85	390
Punch-----	A. Kraeuter-----	604,564	May 24	2474	562	83	1146
Punch-----	A. A. Low-----	600,587	Mar. 15	1775	405	82	1596
Punch and shear machine-----	C. F. Thurber-----	608,562	Aug. 2	694	158	84	794
Punch attachment-----	W. P. Goldthwaite-----	608,256	Aug. 2	150	37	84	684
Punch. Check-----	G. O. Brosnaham, Jr-----	599,163	Feb. 15	1864	442	82	989
Punch. Check-----	M. Hirsh-----	597,413	Jan. 18	1650	384	82	354
Punch for stencil-cutting machines-----	J. W. Munson-----	612,169	Oct. 11	1025	247	85	211
Punch. Gang-----	L. Fisher-----	599,997	Mar. 1	582	134	82	1323
Punch. Gang-----	C. F. Lord-----	613,840	Nov. 8	1098	250	85	845
Punch-making apparatus-----	A. J. Bradley-----	614,789	Nov. 22	2795	641	85	1203
Punch. Pocket check-----	J. H. Burton-----	615,677	Dec. 13	848	196	85	1592
Punch. Spacing-----	J. M. and J. M. W. Long-----	601,398	Mar. 29	3170	716	82	1902
Punches and dies. Manufacture of-----	S. D. Hartog, Jr-----	598,867	Feb. 8	1352	326	82	876
Punches. Making-----	A. J. Bradley-----	613,236	Nov. 1	20	5	85	621
Punching and shearing machine-----	G. Guild and C. A. Bertsch-----	610,584	Sept. 13	819	187 188	84	1612
Punching and shearing machine-----	O. O. Hatleli-----	614,716	Nov. 22	2670	608	85	1177
Punching and shearing machine. Combined-----	J. A. Nichols-----	613,072	Oct. 25	2621	620 621	85	548
Punching-bag-----	H. B. Frazier-----	600,777	Mar. 15	2088	478	82	1657



*Alphabetical list of inventions—Continued.*

Invention	Name	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Punching-bag	R. W. Hess. (Reissue)	11,648	Feb. 1	720	174	82	739
Punching-bag	R. W. Hess	615,700	Dec. 13	887	205	85	1600
Punching-bag and platform. Pneumatic	H. B. Frazier	600,776	Mar. 15	2086	478	82	1656
Punching-bag platform	H. B. Frazier	600,775	Mar. 15	2085	478	82	1656
Punching-machine	M. Boyer	602,721	Apr. 19	1960	445	83	402
Punching-machine	C. Seymour	608,484	Aug. 2	561	125	84	767
Punching-machine	J. P. Stark	608,725	Aug. 9	996	229	84	870
Punching-machine	J. J. Sullivan	603,664	May 10	771	171	83	766
Punching-machine sheet-feeding mechanism	W. Painter	605,334	June 7	519	116 117	83	1452
Punching-press	W. O. Hogaboom	604,392	May 24	2145	482	83	1086
Puncture-closing compounds. Self-discharging receptacle for	W. P. Allen	614,643	Nov. 22	2538	578	85	1153
Purin derivatives. Making	E. Fischer	607,028	July 12	703	-----	84	159
Purins. Making	E. Fischer	598,502	Feb. 8	743	-----	82	761
Purse	E. L. Prickett	597,325	Jan. 11	1491	348	82	307
Push-button	F. J. List	606,562	June 28	2842	654	83	1953
Push-button card receiver and ejector. Combination	O. M. Bossert	604,296	May 17	1962	440	83	1031
Puzzle	J. Archibald	603,217	Apr. 26	2803	640	83	577
Puzzle	W. Bowling	599,593	Feb. 22	2672	625	82	1167
Puzzle	O. B. Brann	616,765	Dec. 27	2891	670	85	2028
Puzzle	J. C. Byxbe	601,428	Mar. 29	3220	726	82	1912
Puzzle	C. W. Carter	598,855	Feb. 8	1332	322	82	873
Puzzle	R. J. C. Collins	609,081	Aug. 16	1699	404	84	1016
Puzzle	C. W. Courtney	609,083	Aug. 16	1701	405	84	1016
Puzzle	N. B. Crary	607,735	July 19	2201	465	84	463
Puzzle	F. H. Donaldson	602,735	Apr. 19	1984	450	83	406
Puzzle	W. H. Emery	600,280	Mar. 8	1231	279	82	1474
Puzzle	W. R. Groger	596,500	Jan. 4	62	14	82	15
Puzzle	O. J. Haarlaender	605,096	June 7	51	16	83	1362
Puzzle	W. A. Hallenbeck	602,219	Apr. 12	1101	242	83	222
Puzzle	W. S. Hammond	612,130	Oct. 11	958	231	85	197
Puzzle	F. D. Hopley	604,248	May 17	1872	420	83	1013
Puzzle	J. H. Landes	601,811	Apr. 5	363	75	83	68
Puzzle	J. E. Richardson	611,334	Sept. 27	2176	503	84	1914
Puzzle	S. C. Rowell	606,030	June 21	1840	424	83	1737
Puzzle	N. H. Sanborn	614,988	Nov. 29	3196	735	85	1297
Puzzle	J. E. Sharpe	615,413	Dec. 6	373	89	85	1485
Puzzle	R. M. Shepherd	614,770	Nov. 22	2759	630	85	1196
Puzzle	E. A. Shields	605,191	June 7	239	57	83	1396
Puzzle	H. Shortt	596,633	Jan. 4	311	68	82	62
Puzzle	J. T. Smith	602,175	Apr. 12	1025	225	83	206
Puzzle	L. Stanek	616,208	Dec. 20	1838	425	85	1802
Puzzle	L. A. Valdetaro	601,406	Mar. 29	3184	719	82	1905
Puzzle	A. T. Vigneron	600,755	Mar. 15	2057	471	82	1650
Puzzle	E. T. Young	598,889	Feb. 8	1386	334	82	884
Puzzle apparatus	H. D. Martin	607,257	July 12	1173	251	84	242
Puzzle. Arithmetic	J. J. Murphy	609,995	Aug. 30	3378	784	84	1372
Puzzle-bank	A. E. Brockett	615,381	Dec. 6	306	72	85	1472
Puzzle-card and picture-exhibitor	M. Rosenzweig	598,537	Feb. 8	804	192	82	772
Puzzle device	W. F. Patterson	600,696	Mar. 15	1958	446	82	1631
Puzzle-map game	A. G. Jacobs	610,628	Sept. 13	891	204	84	1629
Puzzle or game apparatus	C. E. Baldwin	604,872	May 31	3009	691	83	1268
Puzzle or toy lock	J. R. Lynn	609,447	Aug. 23	2383	561	84	1167
Pyrocatechin. Making	G. Tobias	607,494	July 19	1785	-----	84	386
Pyrometer	D. Baker	602,613	Apr. 19	1760	402	83	363
Pyrometer	E. A. Uehling	614,241	Nov. 15	1805	416	85	1003
Pyrotechnic device	H. Weiffenbach	609,063	Aug. 16	1672	397	84	1011
Pyrotechnic effects on water. Means for producing	F. L. Fiedler	600,578	Mar. 15	1760	402	82	1593
Pyroxylin composition	G. Walker	604,181	May 17	1758	-----	83	992
Pyroxylin composition of matter	J. H. Stevens	607,554	July 19	1895	-----	84	405
Pyroxylin compound	H. Goetter	597,144	Jan. 11	1203	-----	82	250
Pyroxylin compound	R. C. Schüpphaus	598,648	Feb. 8	995	-----	82	809
Pyroxylin compound	R. C. Schüpphaus	598,649	Feb. 8	996	-----	82	809
Pyroxylin compound	R. C. Schüpphaus	600,556	Mar. 15	1723	-----	82	1587
Pyroxylin compound	J. H. Stevens	608,726	Aug. 9	998	-----	84	871
Pyroxylin compound	J. H. Stevens	608,727	Aug. 9	999	-----	84	871
Pyroxylin compound	J. H. Stevens	609,475	Aug. 23	2441	-----	84	1176
Pyroxylin compound	J. H. Stevens	610,566	Sept. 13	793	-----	84	1607
Pyroxylin compound	J. H. Stevens	610,615	Sept. 13	871	-----	84	1624
Pyroxylin compound	J. H. Stevens	610,953	Sept. 20	1453	-----	84	1757
Pyroxylin compound	J. H. Stevens	612,531	Oct. 18	1642	-----	85	340
Pyroxylin compound	J. H. Stevens	613,400	Nov. 1	344	-----	85	681
Pyroxylin compound	J. H. Stevens	614,514	Nov. 22	2306	-----	85	1110
Pyroxylin compound	J. H. Stevens and F. C. Axtell	610,728	Sept. 13	1054	-----	84	1662
Pyroxylin compounds in imitation of marble. Manufacturing	J. R. France	603,526	May 3	533	117	83	703
Pyroxylin compounds. Manufacture of	O. Nagel	596,662	Jan. 4	361	-----	82	71
Pyroxylin imitations of mosaic. Producing	E. D. Harrison and C. H. Thurber	602,159	Apr. 12	1001	219	83	202
Pyroxylin sheets. Manufacturing	J. H. Stevens and M. C. Lefferts	600,824	Mar. 15	2160	493 494	82	1670
Quartz-mill	H. H. Crain and J. W. Forbes	600,635	Mar. 15	1843	422	82	1610
Quartz-mill	T. Cruse	613,193	Oct. 25	2805	662	85	585
Quartz-mill	J. T. Davis	613,666	Nov. 8	781	178	85	786
Question-answering device	R. I. Blakeslee	600,997	Mar. 22	2458	560	82	1739
Quick-break switch	H. P. Davis	599,929	Mar. 1	478	108	82	1304
Quilling-machine spindle	F. Kesselring	606,890	July 5	464	99	84	91
Quilting-frame	J. Barron	599,092	Feb. 15	1736	412	82	968
Quilting-frame	E. H. Butler	606,915	July 5	497	109	84	99
Quinin derivative and making same	E. Langheld	605,491	June 14	801	-----	83	1527
Race apparatus. Electric-timing	J. I. McDonald	613,705	Nov. 8	854	197	85	800
Race-starting machine	J. L. Johnstone	597,984	Jan. 25	2637	616	82	562
Race-track for dogs	M. Walsh	611,876	Oct. 4	491	119	85	98



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Rack:							
See Bicycle-rack.	Hay-rack.						
Bicycle luggage-rack.	Hose-rack.						
Boot or shoe rack.	Kettle-rack.						
Broom-rack.	Kitchen-rack.						
Car hay-rack.	Music-rack.						
Clothes-rack.	Pen-rack.						
Clothes, hat, and display rack.	Photographic - negative rack.						
Cue-rack.	Pie-rack.						
Curtain-rack.	Provision-rack.						
Display-rack.	Shoe-rack.						
Folding rack.	Ticket-rack.						
Grain, hay, and stock rack.	Tobacco-pipe rack.						
Gun-rack.	Towel-rack.						
Hat-rack.	Trousers-rack.						
	Umbrella-rack.						
	Wire rack.						
Rack and pinion	F. J. Kunkel	602,403	Apr. 12	1409	318	83	284
Racking beer, ale, &c. Apparatus for	E. Friedman	602,256	Apr. 12	1159	254	83	234
Racking beer. Means for	E. Kersten	616,336	Dec. 20	2083	485	85	1851
Racking or barrel-filling apparatus	D. Beebe	607,328	July 12	1296	277 278	84	268
Radiator	A. H. Fowler	609,800	Aug. 30	3020	707	84	1301
Radiator	H. L. Goodwin	599,897	Mar. 1	429	95	82	1294
Radiator	J. T. Jackson and F. J. Travers	601,655	Apr. 5	56	11	83	12
Radiator	J. Keith	599,611	Feb. 22	2713	634	82	1175
Radiator	J. A. Miller	608,889	Aug. 9	1309	305 306	84	928
Radiator. Air-heating	J. M. Sprecher	609,595	Aug. 23	2654	620	84	1217
Radiator. Air-heating	W. P. and R. P. Thompson	608,352	Aug. 2	335	73, 74	84	722
Radiator air-valve	S. H. Baker	600,115	Mar. 1	897	205	82	1390
Radiator attachment	J. H. Hutchinson	599,708	Mar. 1	59	13	82	1228
Radiator base. Steam	A. J. Bayley	614,818	Nov. 22	2844	655	85	1212
Radiator. Electric	J. F. McElroy	598,639	Feb. 8	982	237	82	806
Radiator. Electric	F. W. Quidas	606,792	July 5	299	62	84	60
Radiator foot-rest	E. W. Cornell	597,049	Jan. 11	1038	245	82	218
Radiator foot-rest attachment	G. H. Woodworth	612,763	Oct. 18	2081	493	85	422
Radiator. Heat	R. P. Dayton	596,856	Jan. 4	704	162	82	137
Radiator. Heat-storage steam	J. A. Thornton	610,292	Sept. 6	294	63	84	1498
Radiator. Hot-air	E. V. Coulston	608,360	Aug. 2	345	75	84	724
Radiator. Hot-blast	G. I. Rockwood	604,217	May 17	1816	408	83	1002
Radiator. Steam	C. Bogroff	605,775	June 14	1303	301	83	1620
Radiator. Steam or hot-water	J. T. Jackson and F. J. Travers	601,656	Apr. 5	58	12	83	12
Radiators. Automatic air-valve for	E. P. Allen	609,191	Aug. 16	1906	454	84	1052
Radiators. Automatic air-valve for steam	L. G. Kirk	605,315	June 7	492	110	83	1446
Raft. Lumber or timber.	H. R. Robertson	607,956	July 26	2644	562	84	564
Rafters. Apparatus for ascertaining length and bevel of	E. H. Horton	609,391	Aug. 16	2281	540	84	1129
Rag-engine	J. Wüstenhöfer	616,517	Dec. 27	2439	564	85	1941
Rag-picking or shoddy machinery	O. E. Hodlick	616,328	Dec. 20	2068	482	85	1848
Rail and joint therefor	G. F. Martin	609,826	Aug. 30	3076	717	84	1313
Rail and railway-track	K. G. A. Uhlig	608,732	Aug. 9	1014	232	84	873
Rail-bond	J. J. Dainton	601,707	Apr. 5	161	31	83	33
Rail-bond	W. E. Harrington	616,232	Dec. 20	1893	427	85	1813
Rail-bond	J. E. Lloyd	610,909	Sept. 20	1377	316	84	1743
Rail-bond	G. Moffat	605,115	June 7	79	22	83	1367
Rail-bond	W. H. Talley	610,004	Aug. 30	3392	786	84	1375
Rail-bond	G. A. Weber	608,736	Aug. 9	1017	233	84	874
Rail-bond and securing same in place. Electrical.	W. R. Cock	608,178	Aug. 2	18	5	84	658
Rail-bond. Electric	F. W. Atkinson	601,458	Mar. 29	3273	739	82	1922
Rail-bond. Electric	J. S. Tucker	609,252	Aug. 16	2036	481	84	1081
Rail-brace. Continuous	W. G. Graham	605,866	June 21	1517	349	83	1678
Rail-brake	D. W. Davis. (Reissue)	11,693	Sept. 20	1966	453	84	1854
Rail-chair	G. D. Claffin, Jr	606,515	June 28	2737	632	83	1932
Rail-chair	T. W. Murphy	601,584	Mar. 29	3471	790 791	82	1963
Rail-clamp	J. M. Henigan	611,481	Sept. 27	2469	569	84	1967
Rail-clamp	H. K. Ritter	604,792	May 31	2873	656	83	1231
Rail-cleaning device	S. A. Short	611,290	Sept. 27	2104	484	84	1900
Rail conductor for electric systems	L. E. Walkins	604,098	May 17	1599	359	83	961
Rail-connector	J. Bryan	597,949	Jan. 25	2577	602	82	550
Rail-drill	M. M. Moore	597,377	Jan. 11	1592	369 370	82	328
Rail-drill	M. M. Moore	599,399	Feb. 22	2311	545	82	1098
Rail fish-plate	J. Fisher	607,358	July 12	1350	288	84	278
Rail frog. Lock	J. W. Close	605,662	June 14	1108	255	83	1583
Rail-groove cleaner. Girder-	L. F. Meyer	611,921	Oct. 4	565	137	85	112
Rail. Guard-	J. N. F. Siebs	610,665	Sept. 13	946	219	84	1640
Rail-holder	O. Ackley	614,359	Nov. 15	2019	466	85	1044
Rail-holder	C. McLennon	605,793	June 14	1356	310	83	1630
Rail-joint	P. W. Arnold and J. Keil	604,285	May 17	1941	435	83	1027
Rail-joint	T. A. Bayliss	598,070	Feb. 1	2	1	82	603
Rail-joint	N. Benjamin	612,891	Oct. 25	2335	556	85	490
Rail-joint	W. H. Fitch	596,934	Jan. 4	833	197	82	162
Rail-joint	R. Hinchliffe	609,101	Aug. 16	1759	419	84	1025
Rail-joint	F. V. Jarden	603,191	Apr. 26	2768	631	83	571
Rail-joint	H. R. Keithley	601,262	Mar. 29	2914	663 664	82	1854
Rail-joint	W. H. Mills	608,208	Aug. 2	72	19	84	669
Rail-joint	G. F. Owen	614,885	Nov. 29	2981	683	85	1254
Rail-joint	T. F. Philippi	602,102	Apr. 12	888	193	83	180
Rail-joint	E. J. Schindehütte	606,089	June 21	1956	450	83	1760
Rail-joint	O. Smay	616,440	Dec. 20	2273	530	85	1890
Rail-joint	C. R. Smith	597,789	Jan. 25	2306	537	82	497
Rail-joint	W. E. Smith	616,365	Dec. 20	2140	498	85	1863



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Rail-joint.....	W. M. Smith.....	609,304	Aug. 16	2135	506	84	1100
Rail-joint.....	T. A. Wakely.....	612,446	Oct. 18	1510	363	85	315
Rail-joint.....	J. Wayland.....	603,779	May 10	963	215	83	804
Rail-joint.....	G. A. Weber.....	605,265	June 7	402	90	83	1428
Rail-joint.....	G. A. Weber.....	614,911	Nov. 29	3028	693	85	1262
Rail-joint.....	E. S. Wheeler.....	612,220	Oct. 11	1108	266	85	227
Rail-joint.....	S. Young.....	603,752	May 10	916	203	83	795
Rail joint and bond. Combined.....	H. R. Keithley.....	601,263	Mar. 29	2916	664	82	1854
Rail-joint and device for preventing spreading of rails. Combined.....	H. M. Williams.....	616,171	Dec. 20	1773	411	85	1789
Rail-joint and forming same.....	W. J. Austin. (Reissue).....	11,653	Mar. 8	1625	371	82	1549
Rail-joint and nut-lock.....	M. Mullins and C. Fleming.....	605,739	June 14	1237	286	83	1608
Rail-joint and tie-plate.....	J. A. McCain.....	603,610	May 3	683	152	83	733
Rail-joint attachment.....	D. N. Hurlbut.....	614,171	Nov. 15	1653	380	85	975
Rail-joint bridge.....	O. T. Bedell.....	598,844	Feb. 8	1311	317	82	869
Rail-joint bridge.....	F. B. Wagner and A. W. Foote.....	603,352	May 3	186	42	83	637
Rail-joint chair.....	P. Brown.....	598,134	Feb. 1	103	24	82	622
Rail-joint plate and car-replacer.....	A. W. Lewis.....	600,728	Mar. 15	2013	459	82	1642
Rail-joint. Protected.....	J. M. Teamer.....	602,782	Apr. 19	2053	466	83	420
Rail mounting. Third.....	S. H. Short.....	605,260	June 7	393	89	83	1426
Rail-spike lock-tie and gage-protector.....	A. Lucas.....	612,974	Oct. 25	2462	588	85	517
Rail-sustaining bar.....	W. Goldie.....	601,645	Apr. 5	28	8	83	9
Rail-sustaining bar and plate.....	W. Goldie.....	611,474	Sept. 27	2458	565	84	1965
Rail-sustaining bar or plate.....	W. Goldie.....	601,646	Apr. 5	40	8	83	9
Rail-sustaining bar or plate.....	W. Goldie.....	601,647	Apr. 5	42	8	83	9
Rail-sustaining bar or tie-plate.....	W. Goldie.....	607,847	July 26	2448	520	84	527
Rail. Third.....	L. M. Maxham.....	600,009	Mar. 1	601	138	82	1327
Rail-track cleaner.....	E. G. Jones.....	604,865	May 31	2998	688 689	83	1265
Rails. Joining.....	E. B. Entwisle.....	613,799	Nov. 8	1036	235	85	834
Rails. Machine for renewing old steel.....	E. W. McKenna.....	608,378	Aug. 2	370	81	84	729
Rails. Method of and machine for renewing old steel.....	E. W. McKenna.....	608,379	Aug. 2	374	82	84	730
Rails over joint-sleepers. Device for regulating position of height of.....	A. Wambsganss.....	606,697	July 5	111	24	84	24
Rails. Strut-tie for preventing creeping of.....	A. Bonzano.....	611,101	Sept. 20	1728	396	84	1810
Railway.....	C. H. Balliette.....	609,727	Aug. 23	2896	677	84	1264
Railway.....	G. J. Capewell.....	609,790	Aug. 30	3003	703	84	1298
Railway.....	E. C. Holzworth.....	613,679	Nov. 8	797	183 184	85	789
Railway.....	C. S. Phelps.....	598,957	Feb. 15	1516	361	82	924
Railway accidents. Device for preventing.....	H. Biermann.....	598,062	Jan. 25	2764	644	82	587
Railway accidents. Device for preventing.....	C. Peters.....	610,828	Sept. 13	1239	285	84	1699
Railway. Aerial.....	M. A. de Palacio.....	602,239	Apr. 12	1128	248	83	227
Railway. Aerial cable.....	A. Margesin.....	609,687	Aug. 23	2842	664 665	84	1254
Railway and cars. Single-track.....	J. Hopkirk.....	602,601	Apr. 19	1743	397	83	359
Railway automatic signaling device.....	P. Merrill.....	600,588	Mar. 15	1776	406	82	1596
Railway-bars. Joining.....	W. G. Curtis.....	607,221	July 12	1099	237	84	229
Railway bed and tie.....	E. Smith.....	601,799	Apr. 5	334	68	83	63
Railway. Bicycle.....	W. F. Mangels.....	604,998	May 31	3205	737 738	83	1306
Railway-brake. Fluid-pressure.....	M. Corrington.....	596,574	Jan. 4	201	45	82	40
Railway cattle-guard.....	J. W. Dodd and S. S. Smallwood.....	596,962	Jan. 4	884	208	82	172
Railway cattle-guard.....	C. H. Mathis.....	614,018	Nov. 8	1387	318	85	904
Railway cattle-guard.....	J. J. Sivley, Jr.....	614,506	Nov. 22	2295	526	85	1108
Railway cattle-guard gate.....	J. Wilhelm.....	614,915	Nov. 29	3035	695	85	1264
Railway collector. Electric.....	F. S. Pearson.....	610,241	Sept. 6	185	41	84	1478
Railway conductor and contact device. Electric.....	A. S. Krotz, W. P. Allen, and O. S. Kelly.....	602,336	Apr. 12	1292	286 287	83	260
Railway conductor. Electric.....	G. Ritter.....	598,184	Feb. 1	197	46	82	640
Railway conduit.....	F. S. Pearson.....	603,656	May 10	759	169	83	764
Railway conduit and electric-current conductor. Surface.....	A. Petzenbürger.....	614,575	Nov. 22	2407	549 550	85	1130
Railway conduit and trolley. Electric.....	J. H. Robertson.....	611,821	Oct. 4	400	95	85	79
Railway conduit. Electric.....	C. V. Osborn.....	597,508	Jan. 18	1826	422	82	389
Railway conduit system. Electric.....	R. F. Thompson.....	597,036	Jan. 11	1007	237	82	212
Railway-conduit yoke.....	F. S. Pearson.....	613,301	Nov. 1	138	32	85	644
Railway construction. Electric.....	W. Chapman and P. W. Davies.....	611,056	Sept. 20	1638	375	84	1792
Railway contact device. Electric.....	B. C. Seaton.....	610,092	Aug. 30	3531	818	84	1403
Railway contact device. Electric.....	C. A. Terry and H. P. Davis.....	606,825	July 5	356	75	84	71
Railway contact device. Electric.....	L. E. Walkins.....	610,007	Aug. 30	3397	787	84	1375
Railway coupling apparatus.....	F. Graff.....	612,607	Oct. 18	1804	427	85	370
Railway coupling attachments. Spring-protecting device for.....	W. Thornburgh.....	606,316	June 28	2388	553	83	1864
Railway-crossing.....	C. Hansel.....	606,339	June 28	2438	564	83	1873
Railway-crossing.....	W. P. S. Young.....	615,122	Nov. 29	3442	790	85	1342
Railway-crossing gate.....	C. R. Woodward.....	608,820	Aug. 9	1198	280	84	906
Railway-crossing gate. Automatic.....	H. Visser.....	610,837	Sept. 13	1250	288	84	1702
Railway-crossing signal.....	R. M. Payne.....	613,597	Nov. 1	677	156	85	745
Railway-crossing signal.....	J. D. Taylor.....	615,762	Dec. 13	996	233	85	1620
Railway-crossing signal. Electric.....	L. C. Smith.....	604,431	May 24	2222	497	83	1101
Railway-crossings. Automatic mast-gate for.....	H. and J. Jones.....	600,873	Mar. 22	2249	512 513	82	1700
Railway current-collecting apparatus. Electric.....	C. A. Terry and H. P. Davis.....	606,826	July 5	359	76	84	72
Railway. Electric.....	W. M. Brown.....	599,828	Mar. 1	292	65	82	1268
Railway. Electric.....	W. M. Brown.....	613,794	Nov. 8	1030	234	85	833
Railway. Electric.....	E. C. Crocker.....	597,799	Jan. 25	2326	542 543	82	502
Railway. Electric.....	E. C. Crocker.....	603,624	May 10	705	157 158	83	754
Railway. Electric.....	E. C. Crocker and E. C. Howe.....	603,625	May 10	707	158	83	754
Railway. Electric.....	C. H. Davis.....	605,663	June 14	1110	255 256	83	1584
Railway. Electric.....	W. W. Doty, J. A. MacKnight, and C. Grauten.....	607,351	July 12	1337	286	84	276
Railway. Electric.....	J. B. Entz.....	611,778	Oct. 4	322	77	85	65



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Railway. Electric	J. H. Guest	604,747	May 31	2801	641	83	1227
Railway. Electric	J. C. Henry	606,663	July 5	45	11	84	11
Railway. Electric	J. C. Henry	606,664	July 5	50	11	84	12
Railway. Electric	J. C. Henry	606,990	July 5	613	133	84	121
Railway. Electric	J. C. Henry	606,991	July 5	616	134	84	122
Railway. Electric	J. C. Henry	610,445	Sept. 6	566	125	84	1547
Railway. Electric	H. T. Hillischer	615,176	Nov. 29	3540	126	85	1362
Railway. Electric	C. F. Holtmann and C. Bergmann	603,060	Apr. 26	2537	576	83	526
Railway. Electric	R. M. Hunter	605,824	June 14	1406	577	83	1639
Railway. Electric	C. L. Kemery	613,418	Nov. 1	377	87	85	687
Railway. Electric	M. T. A. Kubierschky	598,731	Feb. 8	1143	275	82	836
Railway. Electric	H. W. Libbey	597,202	Jan. 11	1296	303	82	268
Railway. Electric	H. W. Libbey	602,584	Apr. 19	1712	389	83	354
Railway. Electric	J. F. McLaughlin	613,708	Nov. 8	862	199	85	801
Railway. Electric	A. J. Moxham	605,503	June 14	816	200	83	1530
Railway. Electric	C. A. Myers	607,697	July 19	2148	452	84	452
Railway. Electric	C. H. Myers	612,457	Oct. 18	1524	366	85	317
Railway. Electric	O. Preil	611,271	Sept. 27	2065	476	84	1892
Railway. Electric	J. F. Scherpe	600,381	Mar. 8	1381	316	82	1503
Railway. Electric	B. C. Seaton	610,090	Aug. 30	3528	817	84	1402
Railway. Electric	B. C. Seaton	610,094	Aug. 30	3533	819	84	1403
Railway. Electric	F. D. Sweet	604,911	May 31	3082	708	83	1282
Railway. Electric	F. D. Sweet	612,068	Oct. 11	850	207	85	176
Railway. Electric	L. E. Walkins	610,009	Aug. 30	3400	788	84	1376
Railway. Electromagnetic-switch	A. Norman	605,970	June 21	1721	395	83	1717
Railway. Elevated	J. Brady	609,407	Aug. 23	2312	546	84	1153
Railway. Elevated cycle-	W. H. Martin	596,895	Jan. 4	757	178	82	148
Railway fog signaling apparatus	T. W. Miller	596,938	Jan. 4	843	179	82	164
Railway fog signaling apparatus	H. Tomlins	605,361	June 7	592	131	83	1464
Railway foot-guard	C. F. Beerstecher	606,501	June 28	2719	627	83	1929
Railway-frog	G. W. Parsons	611,331	Sept. 27	2171	502	84	1913
Railway-frog	P. J. Ramion	612,363	Oct. 11	1368	331	85	274
Railway-frog. Automatic	A. L. Thayer and C. B. Roland	599,155	Feb. 15	1850	332	82	987
Railway-frog chair	J. Player	601,478	Mar. 29	3300	438	82	1927
Railway-frog foot-guard	C. Partington	598,486	Feb. 1	711	172	82	737
Railway-gate	F. M. Carder and G. J. Pickinpaugh	611,353	Sept. 27	2214	511	84	1920
Railway-gate	T. M. Cottle	615,681	Dec. 13	855	197	85	1593
Railway-gate	M. M. McGregor and J. H. Williams	615,402	Dec. 6	353	84	85	1481
Railway-gate	J. W. Parsons	598,605	Feb. 8	920	221	82	796
Railway-gate	L. D. Ralston	600,932	Mar. 22	2349	533	82	1718
Railway-gate	J. F. Small	599,020	Feb. 15	1632	386	82	947
Railway-gate. Automatic	D. Bernardin and Z. Pattenaude	615,787	Dec. 13	1045	246	85	1629
Railway-gate. Automatic	E. Dorr	600,307	Mar. 8	1267	389	82	1481
Railway-gate. Automatic	J. F. Small	599,019	Feb. 15	1630	385	82	946
Railway-gate mechanism	F. A. Cramer and J. A. Garman	602,615	Apr. 19	1764	403	83	363
Railway-gate-operating device	J. D. Campbell and M. E. Cummings	603,621	May 10	699	156	83	752
Railway grade-crossing signal	H. M. Abernethy	613,549	Nov. 1	596	137	85	729
Railway. Gravity-	J. Murrey	608,787	Aug. 9	1097	253	84	889
Railway grips. Mechanism for automatically plac- ing cables in cable-	L. J. Hirt	608,858	Aug. 9	1266	254	84	919
Railway. Highway-	H. L. Stillman	597,515	Jan. 18	1836	295	82	391
Railway interlocking switch and signaling appara- tus	F. Schauman	600,679	Mar. 15	1929	424	82	1625
Railway-joint	G. W. Bennum	601,220	Mar. 22	2834	647	82	1811
Railway-line safety apparatus	J. M. Laffas	606,672	July 5	68	14, 15	84	16
Railway-motor. Electric	A. Schmid	609,977	Aug. 30	3342	778	84	1365
Railway-motor. Electric	C. J. Van Depoele	597,156	Jan. 11	1223	287	82	254
Railway-motors. Suspension for electric	W. Cooper	613,357	Nov. 1	250	56	85	665
Railway nut-wrench	J. M. Certain	613,969	Nov. 8	1308	298	85	887
Railway oblique crossing	S. J. Austin	607,324	July 12	1290	275	84	266
Railway-operating mechanism. Street-	C. W. Roberts	611,819	Oct. 4	396	95	85	79
Railway overhead construction. Electric	C. A. Terry and H. P. Davis	606,827	July 5	362	76	84	72
Railway permanent way	P. Hevner	606,968	July 5	573	126	84	114
Railway protective appliance. Electric	L. E. Walkins	600,564	Mar. 15	1734	396	82	1589
Railway rack-rail. Mountain-	E. Strub	600,324	Mar. 8	1293	296	82	1486
Railway-rail	G. V. Hariman	609,024	Aug. 16	1595	379	84	996
Railway-rail	J. W. Peterman	614,976	Nov. 29	3170	728	85	1293
Railway-rail bond. Electric	S. H. Harrington	608,258	Aug. 2	152	38	84	684
Railway-rail connection	J. H. Kuhn	615,028	Nov. 29	3267	749	85	1310
Railway-rail-end support	J. B. Squire	605,145	June 7	163	41	83	1382
Railway-rail fastener	G. D. Mims and S. K. Dunkle	599,622	Feb. 22	2728	638	82	1178
Railway-rail joint	E. C. Edwards	597,271	Jan. 11	1400	328	82	288
Railway-rail joint	D. C. Mauldin	600,793	Mar. 15	2115	483	82	1661
Railway-rail joint	J. Rohlin	612,059	Oct. 11	831	204	85	173
Railway-rail joint	O. E. Selby	611,945	Oct. 4	612	149	85	119
Railway-rail joint	A. Viotor	609,853	Aug. 30	3110	726	84	1320
Railway-rail joint	C. L. Winegard	602,382	Apr. 12	1367	306	83	275
Railway-rail-joint base-plate	M. Sellers	605,520	June 14	839	195	83	1534
Railway-rail-joint. Electric	M. Barschall	612,696	Oct. 18	1955	463	85	399
Railway-rail. Reversible	C. M. Dissosway	611,680	Oct. 4	154	38	85	33
Railway-rail tie	E. R. Stiles	605,356	June 7	574	127	83	1462
Railway-rails. Device for handling	E. Day	609,417	Aug. 23	2332	550	84	1157
Railway-rails. Fish-plate for coupling	J. C. Wiggins	613,100	Oct. 25	2666	630	85	557
Railway rolling-stock. Safety attachment for	N. Densler	600,410	Mar. 8	1433	323	82	1513
Railway safety-gate	H. C. Wilson	606,259	June 28	2290	530	83	1844



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Railway-signal	H. M. Abernethy	600,054	Mar. 1	788	180	82	1368
Railway-signal	W. Andrews	612,810	Oct. 25	2179	518	85	461
Railway-signal	A. J. Armstrong	599,521	Feb. 22	2539	597	82	1141
Railway-signal	A. W. Biddinger	605,847	June 21	1481	339	83	1671
Railway-signal	J. D. Bundy and A. L. Jackson	612,014	Oct. 11	755	186	85	158
Railway-signal	T. H. Campbell	608,280	Aug. 2	188	45	84	692
Railway-signal	J. S. Dunn	606,197	June 28	2149	493	83	1815
Railway-signal	G. W. Green	602,004	Apr. 5	723	154	83	136
Railway-signal	S. Mills	603,150	Apr. 26	2704	614	83	559
Railway-signal	M. C. Oster	606,075	June 21	1922	441	83	1752
Railway-signal	F. Williams	602,676	Apr. 19	1888	430	83	388
Railway signal-alarm	P. E. Legrand	607,754	July 19	2234	472	84	469
Railway signal apparatus	W. F. Renton	611,149	Sept. 20	1820	419	84	1827
Railway-signal. Automatic	H. J. Schmitt	600,323	Mar. 8	1291	295	82	1485
Railway signal device. Electric	L. T. Dubé	611,897	Oct. 4	530	129	85	105
Railway signal. Electric	W. H. Jordan	604,866	May 31	2999	689	83	1265
Railway-signal. Electric	C. L. Renrew	605,798	June 14	1362	312	83	1631
Railway signal-light	J. F. Bean	600,214	Mar. 8	1110	253	82	1451
Railway-signal. Mechanical	B. A. Karr, L. Koenig, and L. A. Woods.	599,656	Feb. 22	2808	652	82	1195
Railway signal-operating system	B. C. Rowell	599,456	Feb. 22	2419	569	82	1119
Railway-signal. Pneumatic	L. S. Brown	607,338	July 12	1320	282	84	273
Railway signal system	G. T. Cunningham	608,031	July 26	2806	596	84	599
Railway-signals, &c. Compensating device for	J. R. Jones	607,800	July 19	2343	494	84	489
Railway signaling	J. G. Schreuder	611,943	Oct. 4	605	147	85	118
Railway signaling and switching apparatus	J. D. Taylor	605,359	June 7	580	128	83	1463
Railway signaling apparatus	H. Bezer	602,423	Apr. 19	1441	326	83	304
Railway signaling apparatus	W. T. C. Pratt	604,711	May 31	2735	625	83	1215
Railway signaling device	F. M. Myers	616,722	Dec. 27	2831	655	85	2016
Railway signaling. Electric lock and system of electric locking for securing additional safety in	J. F. W. Morris and G. Mumford	597,650	Jan. 18	2049	479	82	431
Railway signaling system	C. H. Davis	606,450	June 28	2641	607	83	1913
Railway signaling system and apparatus	H. Bezer	602,792	Apr. 19	2071	470	83	423
Railway signaling system. Electric	B. Samuels	601,482	Mar. 29	3304	748	82	1928
Railway speed-controlling apparatus	B. C. Rowell and F. M. Brinckerhoff	607,767	July 19	2256	477	84	473
Railway-spike	R. Dodson	613,797	Nov. 8	1034	235	85	834
Railway-spike	J. R. Elliott	613,364	Nov. 1	260	59	85	667
Railway-spike	J. H. Malven	605,790	June 14	1351	309	83	1629
Railway-spike	A. Van Vliet and J. Gardenier	607,670	July 19	2105	439	84	443
Railway-spike	D. R. Wing	612,538	Oct. 18	1658	394	85	342
Railway-spikes. Apparatus for manufacturing	H. C. Rumpf	604,591	May 24	2519	573	83	1154
Railway supply system. Electric	P. J. Pringle	602,142	Apr. 12	953	209	83	193
Railway supply system. Electric	D. Urquhart and F. Wynne	600,101	Mar. 1	870	200	82	1384
Railway-switch	W. C. Ayers	603,372	May 3	219	49	83	643
Railway-switch	P. Boch	601,050	Mar. 22	2541	578	82	1755
Railway-switch	B. L. Bonnell	608,569	Aug. 9	711	163	84	817
Railway-switch	R. Cady. (Reissue)	11,687	Aug. 16	2289	542	84	1130
Railway-switch	H. Christenson	609,659	Aug. 23	2793	651	84	1244
Railway-switch	E. W. Coughlin	607,917	July 26	2581	547	84	553
Railway-switch	H. Dixon, Jr.	597,962	Jan. 25	2593	606	82	553
Railway-switch	J. J. Dixon	600,859	Mar. 22	2231	508	82	1697
Railway-switch	J. R. Downa	596,859	Jan. 4	706	162	82	138
Railway-switch	W. and W. J. Harris	603,902	May 10	1203	272	83	850
Railway-switch	E. J. Jenkins	602,014	Apr. 5	737	157	83	140
Railway-switch	E. S. Leaycraft	616,120	Dec. 20	1663	388	85	1766
Railway-switch	J. Masson and J. Lochelongue	601,352	Mar. 29	3090	698	82	1887
Railway-switch	W. McCaffery	606,730	July 5	166	37	84	34
Railway-switch	G. A. and T. F. Penrose	615,101	Nov. 29	3410	782	85	1336
Railway-switch	E. M. Poulin and H. F. Eaton	601,382	Mar. 29	3139	709	82	1897
Railway-switch	W. Preston	611,844	Oct. 4	439	105	85	88
Railway-switch	L. M. Randolph	612,435	Oct. 18	1488	359	85	310
Railway-switch	J. F. Ruhland	603,707	May 10	843	187	83	781
Railway switch-actuating mechanism	W. H. Rouston	601,858	Apr. 5	467	95	83	87
Railway switch and frog	C. E. Harris	600,720	Mar. 15	2000	455	82	1639
Railway switch and lock apparatus	J. W. Thomas, Jr.	610,419	Sept. 6	527	115	84	1540
Railway switch and means for operating same	B. J. Kelly	599,847	Mar. 1	324	73	82	1274
Railway switch and signal mechanism	J. W. Thomas, Jr.	606,602	June 28	2911	674	83	1965
Railway-switch. Automatic	J. J. Benes	609,753	Aug. 23	2936	686	84	1271
Railway-switch. Automatic	J. L. Calame	608,647	Aug. 9	863	199	84	845
Railway-switch. Automatic	J. Deller	605,599	June 14	983	226	83	1561
Railway-switch. Automatic	H. F. Eaton	600,278	Mar. 8	1226	278	82	1473
Railway-switch. Automatic	J. H. Garner	598,626	Feb. 8	961	232	82	802
Railway-switch. Automatic	W. C. Humphreys	600,674	Mar. 15	1920	436	82	1624
Railway-switch. Automatic electrically-controlled	R. V. Cheatham	612,702	Oct. 18	1966	467	85	400
Railway switch-box	E. W. Coughlin	607,916	July 26	2580	547	84	553
Railway-switch detector-bar	D. and W. H. Gruhlkey	616,703	Dec. 27	2792	647	85	2007
Railway-switch foot-guard	J. Donovan	609,267	Aug. 16	2067	491	84	1087
Railway-switch lock	C. H. Schager and J. M. J. Lundin	606,362	June 28	2478	576	83	1880
Railway switch-lock. Automatic	W. A. Slocum	603,385	May 3	239	54	83	646
Railway-switch-operating mechanism	C. W. Squires	602,667	Apr. 19	1873	426	83	385



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Railway-switch operating mechanism	J. W. Thomas, Jr	610,420	Sept. 6	528	115 116	84	1540
Railway-switch operating mechanism	J. E. Young and G. Morden	602,249	Apr. 12	1147	251	83	231
Railway switch operating mechanism Street	F. M. and W. W. Tyler	606,433	June 28	2615	603	83	1908
Railway-switch Portable	W. Barton	597,380	Jan. 18	1598	371	82	345
Railway-switch Self-acting	C. H. Strauss	613,827	Nov. 8	1078	245 246	85	842
Railway switch stand	E. Grafstrom	609,099	Aug. 16	1755	418	84	1024
Railway switch. Street	G. E. Crane and V. H. Esch	600,407	Mar. 8	1428	326 327	82	1512
Railway switch. Street	C. Stadtfeld	601,359	Mar. 29	3103	701	82	1890
Railway system	O. B. Englisch	609,335	Aug. 16	2186	516	84	1110
Railway system	H. S. Halford	615,982	Dec. 13	1383	324 325	85	1695
Railway system Atmospheric	C. Comstock	612,402	Oct. 18	1428	345 346	85	299
Railway system Electric	G. L. Campbell	611,559	Sept. 27	2612	602	84	1995
Railway system. Electric	H. A. Chase	605,814	June 14	1386	318 319	83	1635
Railway system. Electric	J. D. Gibbs	599,604	Feb. 22	2702	632	82	1172
Railway system. Electric	W. Lawrence	605,317	June 7	495	110	83	1446
Railway system. Electric	J. M. Murphy	599,344	Feb. 22	2192	521	82	1073
Railway system. Electric	S. H. Short	607,610	July 19	1992	413	84	422
Railway system. Electric	S. H. Short	607,611	July 19	1995	414	84	423
Railway system. Electric	L. E. Walkins	613,433	Nov. 1	406	93	85	694
Railway system. Electric	L. E. Walkins	613,612	Nov. 1	701	162	85	750
Railway system. Surface contact	W. B. Potter	611,760	Oct. 4	290	69	85	59
Railway system. Third rail underground electric	L. E. Walkins	605,066	May 31	3329	764	83	1329
Railway system. Underground electric	F. D. Robb	613,175	Oct. 25	2778	655	85	580
Railway systems. Underground electric	F. H. Chamberlain and G. B. Coleman	616,824	Dec. 27	2988	696	85	2048
Railway-tank feeder	J. W. Skilton	610,772	Sept. 13	1139	262	84	1679
Railway tie	H. T. Armstrong	604,183	May 17	1762	397	83	993
Railway tie	E. G. Carter	608,648	Aug. 9	865	199	84	845
Railway tie	J. Kline	601,810	Apr. 5	362	74	83	68
Railway tie	M. Riley	605,233	June 7	327	75	83	1413
Railway tie	J. A. Schmahl	602,388	Apr. 12	1382	309	83	278
Railway tie	A. W. Taft	615,923	Dec. 13	1275	298	85	1673
Railway tie	W. S. Ward	614,638	Nov. 22	2531	577	85	1151
Railway tie	F. T. Wright	610,935	Sept. 20	1421	---	84	1751
Railway tie and clamp	C. Swan and J. G. Gray	609,848	Aug. 30	3104	723	84	1319
Railway tie and rail-clamp	C. H. Rogers	601,105	Mar. 22	2627	599 600	82	1772
Railway-tie. Combination	W. F. Bond	598,764	Feb. 8	1188	286	82	845
Railway-tie distributor	C. C. Gates	608,962	Aug. 9	1453	344	84	954
Railway-tie. Metal	P. Bogler	598,692	Feb. 8	1077	259	82	824
Railway-tie. Metal	G. W. Cline	610,670	Sept. 13	955	221	84	1642
Railway-tie. Metal	W. H. Scott	599,639	Feb. 22	2776	645	82	1189
Railway-tie. Metallic	J. M. Clark	605,270	June 7	409	92	83	1430
Railway-tie. Metallic	R. F. Ellis	615,971	Dec. 13	1368	320	85	1692
Railway-tie. Metallic	J. M. Hoon	614,614	Nov. 22	2485	567	85	1142
Railway-tie. Metallic	T. G. Jacklin	611,037	Sept. 20	1604	367	84	1785
Railway-tie. Metallic	J. N. Powell	599,045	Feb. 15	1669	395	82	955
Railway-tie. Metallic	H. A. Saathoff	609,123	Aug. 16	1796	428	84	1032
Railway-tie. Metallic	W. T. Wilkinson	602,789	Apr. 19	2068	469	83	422
Railway-tie plate	W. J. Allin	601,766	Apr. 5	277	55	83	53
Railway-tie plate	W. F. Gould	598,222	Feb. 1	268	59	82	653
Railway-tie plate	W. E. Miller	597,084	Jan. 11	1107	261	82	232
Railway-tie plate	S. D. S. Narber	612,752	Oct. 18	2055	488	85	418
Railway-tie-plate surfacer and gage	H. Ware	606,851	July 5	405	86	84	81
Railway time-signal	H. J. Wemett	615,934	Dec. 13	1301	303	85	1678
Railway time-indicator	M. Jolly	609,619	Aug. 23	2716	634	84	1228
Railway-track	C. A. Sundstrom	614,086	Nov. 8	1416	324	85	909
Railway track and track-support. Elevated-cycle	W. H. Martin	599,855	Mar. 1	936	76	82	1277
Railway-track-bond. Electric	F. T. Mather	598,947	Feb. 15	1499	357	82	921
Railway-track cleaner for street-cars	G. A. Parmenter and S. H. Peirce	604,543	May 24	2434	553	83	1137
Railway-track drill	D. A. Moore	604,410	May 24	2182	489	83	1093
Railway-track gage	D. Sweeney	597,305	Jan. 11	1453	341	82	299
Railway-track rail-brace	W. B. and H. L. Brunson	608,507	Aug. 2	598	134	84	774
Railway-track securer	T. Sherwood	610,204	Sept. 6	96	20	84	1458
Railway track structure	F. Nather	602,264	Apr. 12	1170	258	83	236
Railway track structures. Machine for manufacturing	T. C. Du Pont	601,527	Mar. 29	3389	768	82	1947
Railway-track tie and fastening	W. A. Detwiler	600,769	Mar. 15	2079	476	82	1655
Railway-tracks. Apparatus for automatically recording unevenness in	J. Livtschak	610,848	Sept. 13	1267	293	84	1705
Railway-tracks. Device for raising and lining	A. Campbell and A. C. Marable	601,459	Mar. 29	3273	740	82	1922
Railway-tracks. Instrument for indicating condition of	J. T. Richards	614,983	Nov. 29	3187	733	85	1296
Railway transfer-table	J. Turner	607,146	July 12	962	208	84	203
Railway traveling contact device. Electric	G. Westinghouse	606,828	July 5	363	76, 77	84	72
Railway turn-table	W. A. Cory	616,080	Dec. 20	1574	367	85	1750
Railway turn-table	J. H. Harting	606,544	June 28	2310	647 648	83	1946
Railway. Underground electric	C. W. Jenkins	612,344	Oct. 11	1333	321 322	85	267
Railway. Underground electric	G. W. Smith	613,084	Oct. 25	2644	625	85	552
Railway-vehicles. Air-resistance device for	G. J. Capewell	609,786	Aug. 30	2995	701	84	1296
Railway-vehicles. Air-resistance device for	G. J. Capewell	609,789	Aug. 30	3001	702 703	84	1297
Railway vehicles. Current-collecting means for electric	C. A. Terry	597,306	Jan. 11	1455	341	82	300
Railway-wagon doors. Apparatus for automatically locking	L. Gordon	616,611	Dec. 27	2596	602	85	1970
Railway wrecking-frog	M. Farrall	602,597	Apr. 19	1737	395	83	358



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Railways. Automatic apparatus for preventing collisions on	J. Vermehren	607,303	July 12	1253	267	84	259
Railways. Automatic current-distributor for electric	J. Claret and O. Vuilleumier	604,968	May 31	3157	726 727	83	1297
Railways. Automatic switch for street	G. D. Rollman	608,560	Aug. 2	602	157	84	793
Railways. Combined train arresting and signaling mechanism for electric	C. H. Davis	605,664	June 14	1113	256	83	1584
Railways. Contact-rail appliance for electric	L. E. Walkins	610,008	Aug. 30	3398	787	84	1376
Railways. Conveyer for endless rope	C. L. Van Buskirk	603,215	Apr. 26	2800	640	83	577
Railways. Depressible-rail system for electric	W. Grunow, Jr.	600,527	Mar. 15	1671	381	82	1577
Railways. Depressible-rail system for electrical	W. Grunow, Jr.	612,644	Oct. 18	1872	443 444	85	382
Railways. Electric block-signal system for	L. C. Werner	605,941	June 21	1660	381 382	83	1706
Railways. Electric switch mechanism for electric	J. M. Murphy	614,124	Nov. 15	1582	362	85	962
Railways. Electric switch-operating mechanism for	L. E. Walkins	614,412	Nov. 15	2119	487	85	1063
Railways. Highway-crossing for	T. J. Brown	601,237	Mar. 29	2871	654	82	1845
Railways. Third rail for electric	B. C. Seaton	610,091	Aug. 30	3530	818	84	1403
Railways. Third rail for electric	B. C. Seaton	610,093	Aug. 30	3533	818	84	1403
Railways. Third rail for electric	S. H. Short	605,261	June 7	394	89	83	1427
Railways. Traveling contact for underground electric	G. B. Coleman and J. W. Duggan	602,678	Apr. 19	1890	430 431	83	388
Railways. Trolley-actuated switch-operating device for electric	L. E. Walkins	599,307	Feb. 15	2103	498	82	1035
Railways. Truss-bridge for rail joints of	C. Dickenson	600,907	Mar. 22	2305	526	82	1710
Raisin-seeder	C. S. Cox	602,698	Apr. 19	1924	437	83	394
Raisin-seeder	C. S. Cox	603,108	July 26	2917	624 625	84	621
Raisin-seeder	W. M. McConaughay	614,178	Nov. 15	1662	382	85	977
Raisin-seeding machine	H. Bardsley	606,265	June 28	2301	532 533	83	1847
Raisin stemming and preparing machine	H. L. Sanborn	600,554	Mar. 15	1718	393	82	1586
Raising floating objects. Means for	L. Dodge	597,606	Jan. 18	1982	461	82	421
Rake:							
See Hay-rake. Lawn-rake.							
Horse-rake.							
Rake	F. J. Aubeuf	598,690	Feb. 8	1075	259	82	824
Rake	N. Stafford	597,919	Jan. 25	2516	589	82	538
Rake	W. W. Wentworth	608,737	Aug. 9	1018	233	84	874
Rake and roller cutter. Combined	P. E. Loree	607,383	July 12	1404	299	84	288
Rake-head	S. H. Jones	611,127	Sept. 20	1777	407	84	1819
Ram. Hydraulic	G. H. Harris	606,715	July 5	146	30.31	84	30
Ram. Steam	W. Drühl	613,977	Nov. 8	1327	302	85	890
Ramie, &c. Machine for treating	C. J. Dear	613,622	Nov. 1	717	167	85	753
Rand-forming machine	C. B. Howard	615,708	Dec. 13	896	207	85	1602
Range and position finder	I. N. Lewis	600,083	Mar. 1	828	191	82	1376
Range and position finder	I. N. Lewis	600,084	Mar. 1	833	191 192	82	1377
Range-boiler	D. W. Boyes and J. R. Denison	602,722	Apr. 19	1961	445	83	402
Range-boiler	V. Wilhelmi	602,650	Apr. 19	1831	417	83	376
Range. Broiler	T. Guinean	615,548	Dec. 6	625	143	85	1533
Range. Cooking	H. Phinney	611,390	Sept. 27	2300	531	84	1935
Range-finder	W. Moran	600,438	Mar. 8	1481	338	82	1521
Range-oven back flue	S. C. Hulbert	612,608	Oct. 18	1805	428 429	85	370
Range. Steel	A. E. Bronson	606,510	June 28	2730	629 630	83	1931
Rasp-cutting machine	J. Turner	598,585	Feb. 8	887	212 213	82	789
Rasp-machine	J. A. McHardy	606,020	June 21	1817	418 419 420	83	1733
Rasp-machine	J. A. McHardy	608,213	Aug. 2	81	21.22 200	84	671
Rasp-punching machine	J. Turner	610,618	Sept. 13	875	201	84	1625
Ratan. Treating	M. P. O. Dickhuth	602,800	Apr. 19	2100		83	427
Ratchet-brace for screw-drivers, &c. Pocket	J. W. Dawson	615,649	Dec. 6	797	185	85	1570
Ratchet-drill	J. Houlehan	611,253	Sept. 27	2016	465	84	1883
Ratchet-drill	J. Racich	596,910	Jan. 4	786	185	82	153
Ratchet-tool	Z. T. Furbish	597,766	Jan. 25	2252	525	82	488
Ratchet-wheel wrench	J. H. Fitch	603,377	May 3	227	50	83	644
Ratchet-wrench	M. M. Funk	601,134	Mar. 22	2674	611	82	1781
Ratchet-wrench	J. Gilbertson	598,609	Feb. 8	925	222	82	797
Ratchet-wrench	R. J. Miller	600,158	Mar. 8	1025	230	82	1434
Ratchet-wrench	E. C. Webster	597,043	Jan. 11	1024	242	82	215
Ratchet-wrench. Reversible	E. M. Tyler	603,159	Apr. 26	2716	617	83	562
Razor	H. Greager	613,032	Oct. 25	2546	606	85	534
Razor	J. F. O'Rourke	616,554	Dec. 27	2503	579	85	1953
Razor	F. Schnabel	610,770	Sept. 13	1132	260	84	1677
Razor-cabinet. Antiseptic	A. R. Miranda	612,861	Oct. 25	2281	544	85	479
Razor-hone holder	W. J. Libby	607,516	July 19	1821	379	84	392
Razor. Safety	E. E. Deputy	605,274	June 7	416	94	83	1431
Razor. Safety	W. Greenfield	614,049	Nov. 8	1431	329	85	912
Razor. Safety	J. Reichard	616,806	Dec. 27	2964	691	85	2044
Razor. Safety	J. Reichard	616,807	Dec. 27	2965	691	85	2044
Razor. Safety	E. L. Schmitz	611,286	Sept. 27	2099	483	84	1899
Razor-strop	T. O. Holland	603,766	May 10	944	211	83	800
Razor-strop	T. O. Holland	603,954	May 10	1287	293	83	866
Razor-strop casing	J. W. Brown	603,074	Apr. 26	2571	583	83	532
Razors. Tank for disinfecting	J. Hurley	612,041	Oct. 11	801	198	85	167
Reading stand and table. Combined	D. H. Allen	608,503	Aug. 2	591	132	84	773
Reading, writing, and music stand. Combined	D. R. Cotner	611,446	Sept. 27	2400	551	84	1953
Reamer	J. F. Cadell	598,904	Feb. 15	1416	341	82	905
Reamer. Pipe	P. Mueller	605,893	June 21	1567	361	83	1689
Reaping-machine	J. A. Gordon	602,441	Apr. 19	1476	337	83	310



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Reaping-machine .....	J. Macphail .....	609,891	Aug. 30	3180	745	84	1333
Reaping-machine. Binding .....	W. W. Burson .....	603,827	May 10	1061	236 237 238 239	83	824
Reaping-machine grain-reel .....	M. G. and P. P. Keen .....	606,346	June 28	2447	567	83	1875
Receptacle. Fluid .....	J. Jaquet .....	608,864	Aug. 9	1276	298	84	921
Receptacle for packing and forwarding provisions .....	R. Amsinck .....	598,757	Feb. 8	1179	283	82	843
Receptacle. Metallic .....	G. G. Westerfield .....	613,343	Nov. 1	216	49	85	658
Reciprocating engine .....	K. F. W. Henschel .....	598,515	Feb. 8	762	183 184	82	764
Reclining-chair .....	E. E. Allen .....	611,049	Sept. 20	1627	372	84	1789
Reclining-chair .....	C. O. and J. W. Glasscock .....	612,384	Oct. 11	1399	338	85	280
Reclining-chair .....	H. F. Rankin .....	602,197	Apr. 12	1063	233	83	214
Reclining-chair .....	M. J. Sprigel .....	610,925	Sept. 20	1399	320	84	1747
Reclining-chair .....	C. F. Streit .....	607,293	July 12	1239	264	84	256
Reclining-chair .....	C. H. Young .....	609,177	Aug. 16	1885	448	84	1048
Reclining, folding, and table chair .....	J. W. Cummins .....	614,370	Nov. 15	2038	470	85	1048
Reclining high-chair .....	C. E. and D. W. Brower .....	608,359	Aug. 2	344	75	84	724
Recorder: See Fare-recorder. Sunshine-recorder. Pressure-recorder. Time-recorder.							
Recorder for conveyances .....	E. T. Gilliland .....	610,268	Sept. 6	226	51	84	1486
Recording instrument. Electric .....	C. L. Jaeger .....	605,548	June 14	882	206	83	1543
Recording platform or gangway .....	H. F. Manning and J. K. Robison .....	614,119	Nov. 15	1568	358 359	85	959
Records. Apparatus for making and preserving .....	F. Crawford .....	596,484	Jan. 4	30	8	82	8
Records. Appliance for preserving public .....	J. E. Wickham .....	612,078	Oct. 11	870	211	85	181
Red. Process of discharging .....	H. Schmid .....	598,118	Feb. 1	80		82	618
Reducing-press .....	L. J. Kingsley .....	605,167	June 7	195	49, 50	83	1388
Reed-board .....	O. Erickson .....	598,176	Feb. 1	184	43	82	637
Reed-plate for tongued instruments .....	E. P. Stark .....	615,112	Nov. 29	3425	786	85	1339
Reel: See Clothes-reel. Lace, ribbon, or belt reel. Clothes-line reel. Oil-cloth stock-reel. Fishing-reel. Ribbon-reel. Harvester-reel. Warping-reel. Hose-reel. Wire-reel.							
Reel .....	E. H. Weaver .....	615,657	Dec. 6	817	189	85	1574
Reel and support .....	I. E. Palmer .....	611,020	Sept. 20	1580	362	84	1781
Reel-carrier .....	W. P. Owsley .....	614,128	Nov. 15	1589	364	85	964
Reel-carrier and feed-cart. Combined .....	M. and O. Helgeson .....	601,807	Apr. 5	350	71, 72	83	66
Reel-holder .....	D. L. Andrews .....	596,799	Jan. 4	607	140	82	116
Reflector .....	A. E. Boeschstein .....	615,471	Dec. 6	479	111	85	1504
Reflector .....	P. C. Larsen .....	611,863	Oct. 4	475	115	85	95
Reflector-holder .....	G. B. Blood .....	609,004	Aug. 16	1558	371	84	990
Reflector. Lamp .....	W. Leuckert .....	614,733	Nov. 22	2703	616	85	1184
Reflector. Lamp .....	J. S. Thomas .....	597,307	Jan. 11	1456	341 342	82	300
Reflector. Post-visual .....	A. Taylor .....	614,673	Nov. 22	2594	589	85	1162
Reflectors. Manufacture of .....	S. O. Cowper-Coles .....	602,306	Apr. 12	1246	274	83	251
Refrigerating and delivery apparatus. Milk .....	D. C. Standiford .....	611,653	Oct. 4	109	27	85	24
Refrigerating apparatus .....	H. W. Abbott .....	607,321	July 12	1286	274	84	265
Refrigerating apparatus .....	H. Auman .....	598,621	Feb. 8	946	227	82	800
Refrigerating apparatus .....	W. Hampson .....	607,849	July 26	2453	521	84	528
Refrigerating apparatus .....	W. F. Singer .....	597,532	Jan. 18	1856	430	82	395
Refrigerating-machine .....	M. Reid .....	598,814	Feb. 8	1262	306	82	859
Refrigerating-machine .....	J. Sedlacek .....	602,199	Apr. 12	1067	234	83	215
Refrigerating-machine. Absorption .....	F. Allen .....	606,326	June 28	2408	558	83	1868
Refrigerating-machines. Condensing-water and air cooling apparatus for .....	J. Sedlacek .....	601,716	Apr. 5	182	35, 36	83	36
Refrigerating-system safety device .....	J. M. Dortch .....	610,438	Sept. 6	557	123	84	1545
Refrigerator. Apparatus for producing artificial .....	E. W. Howell .....	612,804	Oct. 18	2158	514	85	438
Refrigerator .....	J. H. Barrett .....	596,967	Jan. 4	892	210	82	174
Refrigerator .....	N. Bosmann .....	600,943	Mar. 22	2367	538	82	1723
Refrigerator .....	J. D. Colony .....	597,393	Jan. 18	1621	377	82	349
Refrigerator .....	J. H. Emert .....	602,843	Apr. 26	2179	493	83	459
Refrigerator .....	R. D. Gallagher, Jr. ....	602,599	Apr. 19	1740	395 396	83	359
Refrigerator .....	H. Hall .....	616,705	Dec. 27	2794	648	85	2008
Refrigerator .....	E. J. Kneeland .....	611,013	Sept. 20	1565	360	84	1778
Refrigerator .....	C. H. Leonard .....	597,725	Jan. 25	2184	510	82	475
Refrigerator .....	G. C. Perkins .....	598,006	Jan. 25	2677	624	82	569
Refrigerator .....	B. S. Williams .....	612,983	Oct. 25	2476	590	85	519
Refrigerator .....	G. L. Wyman .....	615,942	Dec. 13	1921	308	85	1681
Refrigerator-car .....	E. T. Earl .....	612,715	Oct. 18	1993	472 473	85	405
Refrigerator-car .....	A. J. McArthur .....	596,820	Jan. 4	643	147 148	82	124
Refrigerator-car .....	E. L. McDonell .....	600,840	Mar. 15	2192	500	82	1676
Refrigerator-car .....	B. E. Meyer, W. I. Bodine, and C. E. Rule .....	601,522	Mar. 29	3380	766	82	1945
Refrigerator-car .....	H. F. Stanley .....	602,483	Apr. 19	1544	351	83	323
Refrigerator-car .....	J. Thomas and J. M. Truby .....	608,086	July 26	2883	617 618	84	615
Refrigerator-car attachment .....	A. Copley .....	612,559	Oct. 18	1708	405	85	352
Refrigerator-cars, &c. Air purifying and refrigerating system for .....	E. C. Nichols .....	610,276	Sept. 6	257	54, 55	84	1492
Refrigerator-door .....	A. J. McArthur .....	608,893	Aug. 9	1316	307	84	929
Refrigerator-door fastening .....	B. A. Stevens .....	611,743	Oct. 4	267	64	85	55
Refrigerator for meat-wagons .....	H. J. Kelley .....	611,491	Sept. 27	2487	573 574	84	1970
Refrigerator lunch-box .....	A. Slomka .....	601,798	Apr. 5	333	67	83	63
Refrigerator shipping-box .....	S. W. Gaines .....	599,172	Feb. 15	1879	445	82	991
Refrigerator shipping-case .....	F. W. Morse .....	608,701	Aug. 9	956	220	84	864
Regenerator .....	J. A. Potter .....	606,083	June 21	1944	447	83	1756



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Register:							
See Autographic register.	Manifolding-register.						
Cash-register.	Photographic register.						
Drink-register.	Pocket-register.						
Fare-register.	Pocket-book register.						
Register	W. G. Shaw	597,695	Jan. 18	2134	499	82	447
Registering apparatus	L. D. Orr	611,139	Sept. 20	1799	415	84	1823
Registering device	J. Alexander	615,779	Dec. 13	1030	242	85	1627
Registering device	G. A. Smith and S. P. Freir	599,364	Feb. 22	2234	531	82	1082
Registering-ring	W. C. Homan	605,822	June 14	1403	322	83	1638
Registry of associated sheets.	W. Spalckhaver	597,696	Jan. 18	2136	499	82	448
Regulator:							
See Arc-light regulator.	Fluid-pressure regula-						
Automatic regula-	tor.						
Beer-pressure regu-	Gas-regulator.						
lating device.	Gas-burner regulator.						
Belt-regulator.	Heat-regulator.						
Damper-regulator.	Lamp-regulator.						
Draft-regulator.	Pressure-regulator.						
Electric regulator.	Pump pressure-regula-						
Elevator-regulator.	tor.						
Engine speed-regu-	Teeth-regulator.						
lating device.	Temperature-regulator.						
Feed-regulator.	Water-regulator.						
Feed-water regulator.	Windmill-regulator.						
Rein-clasp	C. S. Watkins	608,940	Aug. 9	1423	335	84	949
Rein. Harness	C. D. Sawtelle	600,652	Mar. 15	1868	427	82	1614
Rein-holder	W. R. Coon	616,525	Dec. 27	2456	568	85	1944
Rein-holder	N. M. Davis	606,521	June 28	2749	635	83	1935
Rein-holder	S. F. Ettinger	616,832	Dec. 27	3001	699	85	2051
Rein-shield	F. L. Campbell	610,797	Sept. 13	1187	274	84	1689
Rein-support	L. W. Arnold	616,694	Dec. 27	2776	645	85	2004
Rein-support	S. F. Heflick	613,144	Oct. 25	2729	644	85	570
Releasing device	D. L. Turner	602,569	Apr. 19	1686	384	83	349
Releasing device. Stock	S. J. Gover	610,806	Sept. 13	1201	276	84	1691
Remailable box	H. A. Ames	610,337	Sept. 6	380	81	84	1513
Remedial appliance	J. E. Peterson	602,228	Apr. 12	1113	244	83	224
Rendering apparatus	A. Schmidt	614,135	Nov. 15	1598	366	85	965
Rendering. Process of	J. Davidson	614,292	Nov. 15	1887	436	85	1019
Repeater	W. M. Chapman	615,014	Nov. 29	3229	742	85	1303
Resawing-machines.	F. McDonough	608,894	Aug. 9	1317	307	84	929
Resawing-machines. Feed mechanism for band	S. L. Hannon and M. A. Jordan	611,478	Sept. 27	2463	567	84	1966
Respirator	A. R. Moody	610,914	Sept. 20	1385	317	84	1744
Respirator	H. Spurrier	612,181	Oct. 11	1042	250	85	213
Retort	H. S. Blackmore	605,379	June 7	620	83	1470	
Retort and making same	M. F. Gale	614,458	Nov. 22	2205	507	85	1093
Retort-burner	H. E. Davis	615,261	Dec. 6	73	20	85	1427
Retort-door	J. V. Rice, Jr.	604,841	May 31	2950	674	83	1256
Retort. Naphtha	H. E. Newton	612,173	Oct. 11	1082	248	85	212
Return-ball. Double	H. L. Charles	599,597	Feb. 22	2685	637	82	1169
Reverberatory furnace	D. B. Eshleman	601,132	Mar. 22	2671	611	82	1781
Reversible trough	J. W. Craw	602,830	Apr. 26	2160	490	83	455
Reversing device	G. Busch	597,311	Jan. 11	1461	343	82	300
Reversing mechanism	F. S. Mead	612,257	Oct. 11	1186	285	85	240
Reversing mechanism	G. A. Owen	602,870	Apr. 26	2215	502	83	466
Revolver	P. Wareham	612,071	Oct. 11	856	208	85	178
Revolver	A. C. Wright	615,467	Dec. 6	471	110	85	1503
Revolving chair	F. C. Trapp	597,866	Jan. 25	2435	567	82	523
Revolving chair	C. C. and F. Trapp	602,489	Apr. 19	1552	353	83	325
Revolving gate	S. G. Stevens	603,212	Apr. 26	2797	639	83	576
Rheostat	H. B. Cutter	606,646	July 5	18	3, 4	84	6
Rheostat	H. W. Leonard	603,063	Apr. 26	2542	578	83	527
Rheostat	R. W. Ney	603,027	Apr. 26	2490	565	83	517
Rheostat	M. Norden	597,470	Jan. 18	1763	408	82	376
Rheostat	F. E. Pool	601,588	Mar. 29	3476	792	82	1964
Rheostat	E. O. Raster	612,212	Oct. 11	1092	262	85	223
Rheostat	C. H. Richardson and L. McMakin, Jr.	611,185	Sept. 20	1874	433	84	1838
Rheostat	M. J. Shiels	607,608	July 19	1988	413	84	422
Rheostat	S. H. Short	599,803	Mar. 1	219	53	82	1256
Rheostat	C. Wirt	615,419	Dec. 6	383	91, 92	85	1487
Rheostat and electric heater	H. P. Ball	600,057	Mar. 1	791	181	82	1369
Rheostat. Automatic	E. T. Wilkinson	615,418	Dec. 6	381	91	85	1487
Rheostat. Electric-lamp	R. H. and F. H. Wappler	604,949	May 31	3131	720	83	1292
Rheostat. Graphite	E. W. Jewell	597,002	Jan. 11	956	226	82	202
Rheostat. Reversing	I. E. Storey	608,013	July 26	2765	587	84	591
Rheostats, electric heaters, &c.	H. W. Leonard	598,568	Feb. 8	859	206	82	784
Rhodol derivative and making same	J. J. Brack	613,113	Oct. 25	2681	85	560	
Ribbon-clasp	E. Wilson	609,486	Aug. 23	2474	577	84	1183
Ribbon-holder	J. V. Risser	596,621	Jan. 4	289	64	82	58
Ribbon-reel	F. R. Vernon	613,742	Nov. 8	936	215	85	815
Rice hulling and polishing machine	H. A. Barnard	606,909	July 5	489	106	84	97
Rice, &c. Manufacturing flaked	G. F. Cook	598,137	Feb. 1	108	26	82	623
Ridge-drill	V. Bedoret	608,748	Aug. 9	1036	237	84	878
Rifle	C. F. Gay	615,840	Dec. 13	1130	264	85	1646
Rifle-plate	C. E. Greene	599,128	Feb. 15	1801	429	82	979
Rim-drilling machine. Automatic	W. R. Fox	614,378	Nov. 15	2049	473	85	1050



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Ring: See Curtain-ring. Ornamental ring. Curtain-pole ring. Packing-ring. Embroidery-ring. Registering-ring. Hat-packing ring. Traverse-ring. Napkin-ring.							
Ripping device.....	F. A. Reynolds.....	596,789	Jan. 4	590	137	82	113
Riprap.....	W. W. Carson.....	607,215	July 12	1081	233	84	225
Rivet-setting machine.....	L. H. Schneider.....	603,743	May 10	900	200	83	791
Rivet-sticking machine.....	L. E. Miller.....	602,139	Apr. 12	944	206 207	83	191
Riveter.....	P. H. Smith.....	599,643	Feb. 22	2780	646	82	1190
Riveting.....	L. Steinmüller.....	609,633	Aug. 23	2755	643	84	1236
Riveting-machine.....	C. P. Higgins.....	612,927	Oct. 25	2389	569	85	501
Riveting-machine.....	F. A. Jaberg.....	599,505	Feb. 22	2517	592	82	1137
Riveting-machine.....	R. H. Love.....	600,733	Mar. 15	2020	460	82	1643
Riveting-machine.....	J. W. Thompson.....	609,479	Aug. 23	2463	574	84	1181
Riveting-machine. Hydraulic.....	E. Graves.....	615,547	Dec. 6	623	141 142	85	1533
Riveting-machine. Hydraulic.....	M. Rothe.....	612,507	Oct. 18	1606	384	85	333
Riveting-tool.....	J. F. Sigler.....	614,903	Nov. 29	3011	690	85	1259
Road and bicycle for same. Elevated.....	W. J. May.....	600,371	Mar. 8	1369	313	82	1500
Road-bed construction.....	J. H. Robertson.....	611,820	Oct. 4	399	95	85	79
Road-making machine.....	C. E. Hacker.....	603,139	Apr. 26	2690	611	83	556
Road, railway road-bed, &c. Dustless.....	F. W. Mattern.....	602,023	Apr. 5	750	161	83	142
Road-roller-oiling device.....	W. O. Nightengale.....	598,206	Feb. 1	240	53, 54	82	648
Road-rollers. Tongue-truck connection for.....	G. W. Taft.....	601,819	Apr. 5	372	78	83	70
Road scarifying and breaking apparatus.....	R. and B. Bomford and H. Evershed.....	606,641	July 5	8	2	84	4
Roadway.....	H. M. Williams.....	615,332	Dec. 6	191	48	85	1451
Roadway-guard. Automatic.....	W. O. Wisner.....	606,614	June 28	2929	679	83	1969
Roadways, tiles, &c. Composition for.....	J. Johnson.....	602,082	Apr. 12	852		83	173
Roaster: See Beef-roaster. Coffee-roaster.							
Roasting-pan.....	E. S. Lockstone.....	604,252	May 17	1880	421	83	1015
Roasting-pan. Self-basting.....	S. W. Akins.....	611,954	Oct. 4	624	152	85	122
Robe. Night.....	J. Grundy.....	602,006	Apr. 5	726	155	83	137
Rock and ore crusher.....	M. O'Hare.....	609,458	Aug. 23	2411	565	84	1172
Rock breaker and crusher.....	J. R. Moffitt.....	611,205	Sept. 20	1912	441	84	1844
Rock-breaker and ore-crusher.....	F. H. Cook.....	610,122	Aug. 30	3578	828 829	84	1414
Rock-channeling machine.....	J. M. Reeves.....	599,732	Mar. 1	91	22	82	1234
Rock-crusher.....	B. R. Seabrook.....	616,427	Dec. 20	2251	525	85	1885
Rock-crusher. Portably-mounted.....	E. S. Philips.....	616,254	Dec. 20	1936	448 449	85	1822
Rock-drill.....	A. J. Bant.....	615,379	Dec. 6	304	71	85	1472
Rock-drill.....	W. B. Brooks and T. Altman.....	610,892	Sept. 20	1350	309 310	84	1737
Rock-drill.....	J. R. Brown.....	607,337	July 12	1317	281	84	272
Rock-drill.....	J. W. De Camp.....	601,223	Mar. 22	2839	649	82	1812
Rock-drill.....	H. R., H. L., and L. G. Hancock.....	603,529	May 3	539	118 119	83	704
Rock-drill.....	M. C. Jackson.....	604,152	May 17	1695	382	83	979
Rock-drill.....	J. G. Leyner.....	609,107	Aug. 16	1771	421	84	1028
Rock-drill.....	J. P. Simmons.....	601,288	Mar. 29	2984	674	82	1868
Rock-drill engine.....	G. M. Githens.....	597,902	Jan. 25	2488	580	82	532
Rock-drill engine.....	J. G. Leyner.....	604,538	May 24	2424	551	83	1135
Rock-drill. Hand.....	L. Jones.....	607,412	July 12	1453	309	84	296
Rock-drill-operating apparatus.....	S. A. Sewell and A. J. Bennwitz.....	600,934	Mar. 22	2353	534	82	1719
Rock or like drill.....	S. P. Blackmore.....	602,693	Apr. 19	1916	436	83	393
Rock or ore breaker.....	A. J. and P. W. Gates.....	616,658	Dec. 27	2702	627	85	1990
Rock or ore breaker.....	P. W. Gates and T. W. Capen.....	616,659	Dec. 27	2703	627 628	85	1990
Rock or stump extractor.....	S. G. Davis.....	596,961	Jan. 4	883	208	82	172
Rocker-cushion.....	J. H. Fink and R. Andlauer.....	608,660	Aug. 9	885	203	84	849
Rocking-horse. Tricycle.....	R. Eberhard.....	614,375	Nov. 15	2045	472	85	1049
Rod: See Curtain-rod. Spring tie-rod. Fishing-rod. Stair-rod.							
Rocker attachment.....	H. P. Russ.....	601,985	Apr. 5	694	148	83	131
Rod-mill floor.....	G. Lehberger.....	602,021	Apr. 5	747	161	83	141
Rods. Disconnecting-coupling for pull.....	M. S. Schail.....	602,037	Apr. 5	778	168 169	83	147
Roentgen or X rays. Apparatus for making observations by means of.....	J. Wertheimer.....	597,753	Jan. 25	2232	519	82	484
Roentgen or X rays. Apparatus for making observations by means of.....	J. Wertheimer.....	616,513	Dec. 27	2431	562	85	1940
Roll.....	G. M. Pelton.....	615,411	Dec. 6	371	88	85	1485
Roll for bending structural iron.....	C. Weber.....	600,700	Mar. 15	1965	448	82	1632
Rolls.....	P. M. Weber.....	606,608	June 28	2920	677	83	1967
Roller: See Dirt-roller. Land-roller. Drawing-roller. Shade-roller. Embossing-roller.							
Roller-brake.....	W. H. Morgan.....	602,996	Apr. 26	2440	557	83	508
Roller-coaster.....	E. Prescott.....	609,164	Aug. 16	1862	444	84	1044
Rolling apparatus.....	D. C. Prescott.....	606,474	June 28	2677	616	83	1919
Rolling balls. Machine for cold.....	E. Rivett.....	599,634	Feb. 22	2770	644	82	1188
Rolling knife-blanks, &c. Machine for.....	A. Johnston.....	614,111	Nov. 15	1550	355 356	85	956
Rolling machine. Ball.....	C. C. Hill.....	600,532	Mar. 15	1682	384	82	1579
Rolling machine. Tube.....	F. Deming.....	611,609	Oct. 4	26	6, 7	85	8
Rolling machinery. Metal.....	W. J. Bradley.....	611,603	Oct. 4	15	4	85	5
Rolling-mill.....	V. E. Edwards.....	603,102	Apr. 26	2621	595	83	542
Rolling-mill.....	S. V. Huber.....	605,669	June 14	1122	259 260	83	1586
Rolling-mill.....	S. V. Huber.....	614,324	Nov. 15	1958	451	85	1033
Rolling-mill.....	S. V. Huber.....	614,325	Nov. 15	1960	452	85	1033



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Rolling-mill	W. D. Matthews	602,864	Apr. 26	2208	500	83	464
Rolling-mill	G. G. McMurtry	608,381	Aug. 2	380	83	84	731
Rolling-mill	G. G. McMurtry	608,382	Aug. 2	381	83	84	731
Rolling-mill	F. H. Richards	613,476	Nov. 1	489	109 110	85	708
Rolling mill. Automatic sheet-metal	J. G. Hodgson	608,287	Aug. 2	205	48, 49	84	695
Rolling mill. Automatic sheet-metal	E. Norton	600,165	Mar. 8	1034	233	82	1436
Rolling-mill. Continuous	W. D. and J. R. Eynon	616,092	Dec. 20	1604	374 375 376 377	85	1756
Rolling-mill edging attachment	C. F. Brooker	607,110	July 12	893	193	84	191
Rolling-mill feed-table	S. V. Huber. (Reissue)	11,646	Jan. 4	899	211 212	82	175
Rolling-mill feed-table	S. V. Huber	614,326	Nov. 15	1962	453	85	1033
Rolling-mill plant	F. H. Daniels	611,565	Sept. 27	2622	605 606	84	1997
Rolling-mill plant	C. H. Morgan and V. E. Edwards	600,335	Mar. 8	1311	300 301	82	1489
Rolling-mill rider or carriage. Metal	R. Bailey	610,015	Aug. 30	3408	790	84	1378
Rolling mill. Tube	B. Price, C. W. E. Marsh, and R. Laybourne.	608,908	Aug. 9	1336	312 313	84	933
Rolling out hollow metal ingots into tubes. Mechanism for	J. C. Sturgeon	601,784	Apr. 5	313	62	83	59
Rolling-pin	A. B. Fowler	599,171	Feb. 15	1878	444	82	991
Rolling railway-carriage wheels. Apparatus for	E. Roberts and J. Davis	611,793	Oct. 4	347	83, 84	85	70
Rolling rods or wire. Machine for	A. Kenworthy	599,336	Feb. 22	2175	516 517	82	1070
Rolling rods or wire. Machine for	A. Kenworthy	599,337	Feb. 22	2177	517 518	82	1071
Rolling rods or wire. Machine for	A. Kenworthy	599,338	Feb. 22	2180	518 519	82	1071
Rolling steel rails. Method of and machine for	E. W. McKenna	608,380	Aug. 2	377	82	84	730
Rolling-stock	H. J. Caillet	614,697	Nov. 22	2639	600 601	85	1171
Rolling tie-plates	A. Morrison	616,798	Dec. 27	2951	688	85	2041
Roof	C. Binder	616,180	Dec. 20	1798	415	85	1794
Roof-bracket. Painter's	D. Cleland	602,209	Apr. 12	1083	237	83	217
Roof-covering	J. S. Rowell	597,916	Jan. 25	2511	588	82	537
Roof-framing tool	G. C. Thompson	614,144	Nov. 15	1613	369	85	963
Roof-securing device	A. N. Monteer	604,775	May 31	2846	650	83	1236
Roof. Tiled	C. W. Schou	605,750	June 14	1251	289	83	1611
Roof-valley	G. F. Drouvé	607,425	July 19	1486	316	84	320
Roof-valleys. Machine for making	C. A. Sturtevant	616,642	Dec. 27	2661	616 617	85	1983
Roofing. Metallic	L. A. Hawley	611,906	Oct. 4	544	132	85	108
Roofing. Metallic	C. E. Hooper	615,178	Nov. 29	3543	815	85	1363
Roofing or flooring. Structural arrangement for combining strength with rigidity for	E. L. Pease	613,599	Nov. 1	683	157 158	85	746
Roofing. Thatch	C. N. Bushnell	606,186	June 28	2125	488	83	1810
Roofing. Tile	J. C. Bayer	600,606	Mar. 15	1800	413	82	1601
Root or sod cutter	P. Melton	605,497	June 14	808	187	83	4528
Rope ascender or descender	W. E. Burke	598,976	Feb. 15	1556	369	82	931
Rope-clamp	W. R. Gorrell	612,160	Oct. 11	1013	244	85	208
Rope-clamping hook	A. R. Bradeen	602,694	Apr. 19	1918	436	83	393
Rope-coupling	C. W. Hunt	608,124	July 26	2941	630	84	626
Rope-coupling	T. L. Marvel	608,886	Aug. 9	1306	305	84	927
Rope coupling. Transmission	G. C. Henning	597,675	Jan. 18	2096	491	82	441
Rope drive mechanism	G. E. Wilson	601,110	Mar. 22	2636	602	82	1774
Rope-driving machinery	T. S. Miller	610,912	Sept. 20	1382	316 317	84	1743
Rope-grip	J. R. Drackett, S. S. Simms, and G. Hitchcock.	615,822	Dec. 13	1099	258	85	1641
Rope grip and propelling device	H. M. Brittan	612,923	Oct. 25	2384	567 568	85	500
Rope halters and hitching-ropes. Eye for	C. A. Conger	600,110	Mar. 1	885	204	82	1387
Rope-hauling machine	W. B. Lantz	606,063	June 21	1901	438	83	1748
Rope-making machine	H. I. Hansen	604,614	May 24	2555	583	83	1162
Rope ring-slide	C. A. Conger	600,109	Mar. 1	884	203	82	1387
Rope socket-clamp. Bull-	C. E. Baker and P. A. Ritchey	612,374	Oct. 11	1384	335	85	277
Ropeway. Aerial	J. W. and H. White	614,046	Nov. 8	1427	327 328	85	912
Rosette-cutting bit	A. W. Cooper	615,251	Dec. 6	43	10	85	1420
Rotary cutter	J. C. Booth and G. Amborn, Jr	599,680	Mar. 1	5	2	82	1218
Rotary cutter	G. D. Gillette	614,947	Nov. 29	3120	715	85	1283
Rotary cutter	H. W. Morgan	612,526	Oct. 18	1637	391	85	339
Rotary cutter	E. Morris	609,896	Aug. 30	3189	747	84	1335
Rotary cutter. Electric	F. Gardner	613,367	Nov. 1	270	61	85	669
Rotary drier	H. H. Wing	600,959	Mar. 22	2389	545	82	1726
Rotary drier	H. H. Wing	603,355	May 3	189	43	83	638
Rotary engine	W. Aab	598,619	Feb. 8	942	226	82	800
Rotary engine	H. I. Arnold	610,161	Sept. 6	1	1	84	1443
Rotary engine	S. W. Barr	599,071	Feb. 15	1709	406	82	962
Rotary engine	W. S. Bate	602,930	Apr. 26	2336	532	83	489
Rotary engine	T. R. Baugh	597,872	Jan. 25	2443	569	82	525
Rotary engine	C. B. Benson	610,700	Sept. 13	1002	232 233	84	1652
Rotary engine	A. N. Blazer	612,304	Oct. 11	1267	306	85	255
Rotary engine	W. H. Bond	612,962	Oct. 25	2443	582	85	512
Rotary engine	P. J. Boris	604,960	May 31	3145	723 724	83	1294
Rotary engine	C. W. Boutilier	613,223	Oct. 25	2883	679 680	85	599
Rotary engine	F. A. Boyd	600,710	Mar. 15	1981	451	82	1635
Rotary engine	F. E. Brainerd	607,673	July 19	2114	442 443	84	445
Rotary engine	T. C. Bright	612,815	Oct. 25	2187	520	85	463



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Rotary engine.....	W. O. Brown.....	616,522	Dec. 27	2449	567	85	1943
Rotary engine.....	R. Bruce.....	616,766	Dec. 27	2892	670 671	85	2029
Rotary engine.....	J. T. Case.....	612,191	Oct. 11	1056	253 254	85	216
Rotary engine.....	S. W. Collins.....	600,343	Mar. 8	1324	303	82	1492
Rotary engine.....	J. T. F. Conti.....	608,401	Aug. 2	420	92	84	739
Rotary engine.....	D. B. Cook.....	604,709	May 24	2729	623 624	83	1195
Rotary engine.....	C. Davidson and R. D. Stacey.....	608,761	Aug. 9	1054	242 243	84	882
Rotary engine.....	M. F. Dean and T. McCoy.....	608,762	Aug. 9	1056	243	84	882
Rotary engine.....	D. M. Dearing.....	615,664	Dec. 6	827	191 192	85	1576
Rotary engine.....	G. A. Dibbell.....	614,846	Nov. 29	2914	668 669	85	1240
Rotary engine.....	J. Dornan.....	601,413	Mar. 29	3197	721	82	1907
Rotary engine.....	D. Drake.....	603,679	May 10	798	176	83	773
Rotary engine.....	S. H. Draper.....	607,684	July 19	2121	444 445	84	447
Rotary engine.....	E. H. Eaton.....	611,239	Sept. 27	1994	460	84	1879
Rotary engine.....	C. Engberg.....	597,274	Jan. 11	1406	330	82	289
Rotary engine.....	C. V. Fite.....	615,834	Dec. 13	1117	262	85	1644
Rotary engine.....	V. R. Gates.....	609,802	Aug. 30	3025	708	84	1302
Rotary engine.....	A. N. Gilbert.....	604,038	May 17	1479	332	83	938
Rotary engine.....	M. E. Gilbert.....	605,460	June 7	750	171	83	1497
Rotary engine.....	J. Goehring.....	616,662	Dec. 27	2707	629 630	85	1991
Rotary engine.....	F. J. Haeseler.....	615,981	Dec. 13	1381	323	85	1695
Rotary engine.....	E. J. Herchert.....	609,543	Aug. 23	2559	599	84	1199
Rotary engine.....	H. B. Hitz and C. A. M. von Syburg.....	609,618	Aug. 23	2712	633	84	1227
Rotary engine.....	J. Holt.....	614,107	Nov. 15	1542	354	85	954
Rotary engine.....	F. G. Hubbard.....	613,682	Nov. 8	802	184 185	85	790
Rotary engine.....	O. Hughes.....	599,236	Feb. 15	1976	469 470	82	1010
Rotary engine.....	R. P. Jarvis.....	602,703	Apr. 19	1933	439	83	396
Rotary engine.....	R. P. Jarvis.....	614,001	Nov. 8	1362	310 311 312	85	898
Rotary engine.....	I. M. Johnson.....	600,914	Mar. 22	2317	528	82	1712
Rotary engine.....	P. J. Johnson.....	600,723	Mar. 15	2004	456	82	1640
Rotary engine.....	S. Kershner.....	602,456	Apr. 19	1501	342	83	315
Rotary engine.....	M. C. Kessler.....	602,334	Apr. 12	1289	285 286	83	260
Rotary engine.....	W. Locke and A. M. Anderson.....	598,793	Feb. 8	1233	298	82	853
Rotary engine.....	T. C. Luce.....	604,254	May 17	1882	422	83	1015
Rotary engine.....	F. J. Macey.....	604,995	May 31	3202	737	83	1305
Rotary engine.....	J. M. Maxwell.....	612,669	Oct. 18	1916	453 454	85	391
Rotary engine.....	W. McFarland.....	615,037	Nov. 29	3291	737	85	1314
Rotary engine.....	J. F. McGlenn.....	600,951	Mar. 22	2377	541 542	82	1724
Rotary engine.....	H. J. McLoed.....	597,585	Jan. 18	1944	452 453	82	413
Rotary engine.....	J. H. Meyer.....	601,854	Apr. 5	459	93	83	85
Rotary engine.....	C. J. Milligan.....	610,191	Sept. 6	72	15	84	1454
Rotary engine.....	J. W. Miner.....	611,700	Oct. 4	195	46	85	41
Rotary engine.....	N. J. Moehn.....	613,587	Nov. 1	661	152	85	741
Rotary engine.....	W. Mohr.....	615,087	Nov. 29	3383	775	85	1330
Rotary engine.....	J. H. Parsons.....	605,906	June 21	1586	364	83	1692
Rotary engine.....	J. H. Parsons.....	605,907	June 21	1588	365	83	1693
Rotary engine.....	J. H. Parsons.....	615,891	Dec. 13	1206	282 283	85	1661
Rotary engine.....	W. J. Pearce.....	606,080	June 21	1939	444	83	1755
Rotary engine.....	W. H. Phillips.....	605,585	June 14	959	222 223	83	1557
Rotary engine.....	A. S. Piatt.....	601,381	Mar. 29	3137	708	82	1896
Rotary engine.....	W. F. Price and A. M. Griffin.....	612,868	Oct. 25	2294	547	85	482
Rotary engine.....	F. Priestley.....	603,737	May 10	889	198	83	790
Rotary engine.....	E. Probst.....	610,497	Sept. 6	674	151	84	1568
Rotary engine.....	J. Putman.....	600,321	Mar. 8	1288	294	82	1485
Rotary engine.....	F. M. Richards and H. M. Forbes.....	610,084	Aug. 30	3520	816	84	1401
Rotary engine.....	S. S. Rose.....	609,049	Aug. 16	1648	393 394	84	1007
Rotary engine.....	F. W. Ross.....	610,498	Sept. 6	677	151 152	84	1569
Rotary engine.....	C. Roux.....	607,085	July 12	856	185	84	185
Rotary engine.....	W. Smith.....	602,630	Apr. 19	1795	410	83	369
Rotary engine.....	A. Stephens.....	605,760	June 14	1270	293 294	83	1615
Rotary engine.....	J. S. Stephens.....	600,240	Mar. 8	1155	263	82	1460
Rotary engine.....	L. Stoner.....	599,648	Feb. 22	2787	648 649	82	1191
Rotary engine.....	C. J. Sullivan.....	609,711	Aug. 23	2877	672	84	1260
Rotary engine.....	W. S. Sutton.....	604,276	May 17	1925	430 431	83	1024
Rotary engine.....	C. G. Taylor.....	615,114	Nov. 29	3427	786 787	85	1339
Rotary engine.....	P. B. Taylor.....	597,793	Jan. 25	2312	539 540	82	499
Rotary engine.....	J. B. Thomas.....	600,460	Mar. 8	1530	351	82	1530
Rotary engine.....	W. D. Thomas.....	601,914	Apr. 5	560	115 116	83	106
Rotary engine.....	E. B. Tree.....	616,643	Dec. 27	2065	617 618	85	1983



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Rotary engine.....	C. W. Triplett.....	601,916	Apr. 5	563	116	83	107
Rotary engine.....	G. H. Tuttle.....	600,753	Mar. 15	2050	469	82	1650
Rotary engine.....	J. J. Unbehend.....	606,606	June 28	2917	675 676	83	1966
Rotary engine.....	C. G. Vance.....	602,530	Apr. 19	1623	370 371	83	338
Rotary engine.....	J. H. Vandegrift.....	609,310	Aug. 16	2147	508 509	84	1103
Rotary engine.....	J. C. Walker.....	611,535	Sept. 27	2553	589 590	84	1984
Rotary engine.....	J. C. Walker.....	611,536	Sept. 27	2559	590 591	84	1985
Rotary engine.....	J. C. Walker.....	615,597	Dec. 6	699	161 162	85	1550
Rotary engine.....	C. C. Wampler and B. D. Bloom.....	599,410	Feb. 22	2326	550	82	1101
Rotary engine.....	A. Watkins.....	599,751	Mar. 1	130	30	82	1241
Rotary engine.....	H. P. White.....	613,344	Nov. 1	217	49	85	658
Rotary engine.....	W. Willerton and T. Shortliff.....	604,641	May 24	2601	594	83	1170
Rotary engine.....	C. C. Wilson.....	600,468	Mar. 8	1542	354	82	1532
Rotary engine.....	S. T. Wilson.....	607,205	July 12	1063	230	84	222
Rotary engine.....	A. A. and D. Wise.....	610,783	Sept. 13	1159	266 267	84	1683
Rotary engine.....	N. Witts.....	611,307	Sept. 27	2128	491 492	84	1904
Rotary engine. Compound.....	A. G. Hilton and J. H. Wallace.....	609,027	Aug. 16	1599	380 381	84	997
Rotary engine. Reciprocating.....	H. Obermeyer.....	600,886	Mar. 22	2277	519	82	1705
Rotary engine. Reversible.....	G. W. Smith.....	596,833	Jan. 4	666	154	82	129
Rotary engine. Reversible.....	W. Taylor.....	599,665	Feb. 22	2823	656	82	1198
Rotary engine. Reversible.....	H. P. White.....	613,345	Nov. 1	219	50	85	658
Rotary flat-bed press.....	J. L. Cox.....	601,497	Mar. 29	3337	755 756	82	1935
Rotary furnace.....	P. Naef.....	596,533	Jan. 4	126	28, 29	82	26
Rotary motor.....	A. Campbell and L. C. Lounsberry.....	613,852	Nov. 8	1118	255	85	849
Rotary motor.....	H. Chaudun.....	597,709	Jan. 25	2160	505	82	470
Rotary motor.....	W. H. Dougherty.....	613,255	Nov. 1	49	12	85	626
Rotary motor.....	J. M. A. Gérard.....	600,671	Mar. 15	1915	435 436	82	1623
Rotary motor.....	L. S. Holmes.....	607,373	July 12	1387	295 296	84	285
Rotary motor.....	C. F. C. Lohmann.....	606,563	June 28	2843	655	83	1953
Rotary motor.....	F. D. Moore and H. L. Woodle.....	600,677	Mar. 15	1926	438	82	1625
Rotary motor.....	G. Silvestri.....	616,592	Dec. 27	2557	592	85	1962
Rotary steam-engine.....	L. K. and C. S. Carnahan.....	598,906	Feb. 15	1419	341 342	82	905
Rotary steam-engine.....	L. K. and C. S. Carnahan.....	605,852	June 21	1493	341 342	83	1673
Rotary steam-engine.....	C. E. Evans and O. E. Barnhart.....	607,922	July 26	2588	549	84	555
Rotary steam-engine.....	H. H. Freeman.....	609,579	Aug. 23	2625	614	84	1211
Rotary steam-engine.....	F. Galpin.....	605,564	June 14	916	215	83	1550
Rotary steam-engine.....	O. E. Graham.....	612,032	Oct. 11	787	194	85	165
Rotary steam-engine.....	C. A. Holcomb.....	609,808	Aug. 30	3037	711	84	1304
Rotary steam-engine.....	M. V. B. Howe.....	606,969	July 5	574	126	84	114
Rotary steam-engine.....	M. L. Jones.....	609,028	Aug. 16	1602	381 382	84	997
Rotary steam-engine.....	A. Lee.....	605,805	June 14	1372	315	83	1633
Rotary steam-engine.....	F. D. Moon.....	604,333	May 17	2039	456	83	1045
Rotary steam-engine.....	B. F. Murphy.....	601,158	Mar. 22	2712	624	82	1789
Rotary steam-engine.....	G. Speice.....	600,561	Mar. 15	1729	394 395	82	1588
Rotary steam-engine.....	I. Wepplo.....	602,787	Apr. 19	2064	468 469	83	421
Rotary steam-engine.....	A. Zwiebel.....	601,696	Apr. 5	128	25	83	28
Rotary steam-engine. Compound.....	F. P. Canfield.....	596,737	Jan. 4	500	114 115	82	97
Rotary wheel or brush. Flexible.....	C. E. Graham.....	603,761	May 10	929	206	83	797
Roundabout.....	J. Ashton.....	603,099	Apr. 26	2618	594	83	541
Roundabout.....	C. Vollmer.....	616,041	Dec. 13	1499	350	85	1719
Roundabout.....	C. T. Wilde and C. W. Hinchcliffe.....	604,164	May 17	1716	387	83	983
Roundabout and elevator. Combined.....	H. Engel.....	611,682	Oct. 4	158	38	85	34
Router.....	A. J. Kniffen.....	609,681	Aug. 23	2829	661	84	1251
Routing-machine.....	W. S. Richards.....	606,155	June 21	2068	475	83	1780
Roving-frame.....	J. T. Cunneen.....	608,758	Aug. 9	1051	241	84	881
Roving-frame bevel-gear.....	J. J. Scholfield.....	596,947	Jan. 4	859	201	82	167
Rowing-gear.....	L. A. Cook.....	597,603	Jan. 18	1977	460	82	420
Rowlock.....	T. H. Brosnihan.....	609,957	Aug. 30	3303	769	84	1358
Rowlock.....	J. J. Connell.....	598,595	Feb. 8	903	217	82	792
Rubber. Calender for running out sheet india- Rubber-cement tank.....	W. Coulter.....	616,434	Dec. 20	2264	528	85	1888
Rubber-dam clamp.....	S. Ross.....	616,016	Dec. 13	1453	340	85	1709
Rubber-dam holder.....	J. Wittkowski.....	611,670	Oct. 4	141	35	85	30
Rubber. Devulcanizing.....	W. M. Seeger.....	604,890	May 31	3032	696	83	1272
Rubber footwear. Lasting apparatus for.....	P. L. Clark.....	601,091	Mar. 22	2602	594	82	1767
Rubber glove.....	J. E. Kennedy.....	616,113	Dec. 20	1646	384	85	1764
Rubber glove.....	A. H. Alden.....	599,677	Mar. 1	2	1	82	1217
Rubber goods. Reinforced seam for.....	C. E. Longden.....	612,741	Oct. 18	2034	483	85	413
Rubber mitten.....	W. F. Augustin.....	601,421	Mar. 29	3207	723	82	1909
Rubber pump-bucket.....	C. E. Longden.....	609,993	Aug. 30	3376	784	84	1372
Rubber-shoe attachment.....	H. C. Freshour.....	605,707	June 14	1191	274	83	1600
Rubber substitutes and compositions of matter therefor. Producing.....	C. E. Posh.....	605,232	June 7	326	75	83	1413
Rubber substitutes and compositions of matter therefor. Producing.....	W. K. Leonard.....	615,863	Dec. 13	1162	-----	85	1652
Rubber substitutes and compositions of matter therefor. Producing.....	W. K. Leonard.....	615,864	Dec. 13	1163	-----	85	1653
Rubber-tired wheel.....	C. A. Maynard.....	602,346	Apr. 12	1307	291	83	263
Rubber. Treating.....	B. G. Work.....	598,550	Feb. 8	824	-----	82	777
Rubber water-bag. India-.....	A. H. Alden.....	604,924	May 31	3099	712	83	1285



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Rubber water-bag. India-	A. H. Alden	604,925	May 31	3100	713	83	1285
Rubbing-machine	J. W. Pencille	609,832	Aug. 30	3083	719	84	1314
Rubbing or polishing machine	J. A. Johnston and O. Sowers	615,621	Dec. 6	745	173	85	1559
Rudders. Means for mounting	R. Runeberg	616,561	Dec. 27	2511	581	85	1955
Rugs from slipping. Means for preventing	A. J. Bell	613,487	Nov. 1	504	114	85	712
Rule and measuring-stick	A. W. Gottlock	602,131	Apr. 12	933	204	83	189
Rule. Jointed	E. Chabot	597,261	Jan. 11	1388	324	82	285
Rule or measuring-stick. Extension	G. H. Massa	596,896	Jan. 4	759	179	82	149
Rule. Skirt-cutting	M. C. Collins	606,706	July 5	128	28	84	27
Rule. Slide-	W. L. E. Keuffel	603,695	May 10	823	181	83	777
Rule. Slide-	J. G. D. Mack	606,388	June 28	2525	586	83	1888
Rule. Slide-	J. E. G. Yalden	603,370	May 3	217	48	83	642
Ruler. Parallel-	G. L. Warren and E. J. Tiesing	600,758	Mar. 15	2059	471	82	1651
Ruler. Section-	F. B. King	598,875	Feb. 8	1363	329	82	879
Ruling apparatus. Hand	G. Wilscheck	597,870	Jan. 25	2440	568	82	524
Ruling-machine	E. Graber and L. Hepworth	609,884	Aug. 30	3164	739	84	1330
Running-gear	J. H. Van Steeter and G. N. Dow	603,241	Apr. 26	2853	651	83	586
Saccharine juices. Defecating	C. Steffen	600,899	Mar. 22	2295	741	82	1708
Sack filling and sewing machine	A. T. Timewell	597,075	Jan. 11	1086	256	82	227
Sack filling and sewing machine. Automatic	N. F. Becker	608,567	Aug. 9	705	160	84	815
Sack-holder	M. A. Lyon	611,498	Sept. 27	2497	576	84	1973
Sack-holder	E. H. Schwey	604,795	May 31	2876	658	83	1242
Sack-tie	A. J. Waller	596,642	Jan. 4	323	70	82	64
Sacks. Machine for transferring and sewing filled	A. T. Timewell	607,809	July 19	2357	498	84	492
Sacks or bags. Device for distending mouths of	G. Aitkens and H. P. H. Graves	612,299	Oct. 11	1257	303	85	253
Sad-iron	W. G. Boughton	606,642	July 5	11	3	84	5
Sad-iron	G. H. Dippo, W. C. Bruce, W. T. Semple, and W. M. Powell.	607,349	July 12	1335	285	84	275
Sad-iron	E. E. Crook	613,250	Nov. 1	42	10	85	625
Sad-iron	J. Gross	603,329	May 3	150	35	83	631
Sad-iron	W. E. Hoyt	607,376	July 12	1394	297	84	286
Sad-iron	C. M. Wolfe	614,683	Nov. 22	2614	594	85	1166
Sad-iron and heater. Combination	D. Rugg	607,957	July 26	2647	562	84	565
Sad-iron-heating device	F. W. Newton	610,823	Sept. 13	1231	283	84	1797
Sad-iron support	W. H. Hawkes	614,950	Nov. 29	3126	717	85	1285
Saddle	H. W. G. Plunkett	606,281	June 28	2323	537	83	1851
Saddle and girth connection	F. Ross	609,975	Aug. 30	3339	777	84	1364
Saddle. Harness-	M. G. Clark	614,838	Nov. 29	2879	662	85	1234
Saddle. Harness-	F. Hudson and W. Meier	597,523	Jan. 18	1846	428	82	393
Saddle loop. Harness-	O. Klausman	610,408	Sept. 6	505	110	84	1536
Saddle-post	A. E. McGill	603,472	May 3	414	92	83	680
Saddle-post. Spring	O. F. Reeves	600,377	Mar. 8	1375	314	82	1502
Saddle-skirt protector	C. E. Nye	609,118	Aug. 16	1786	425	84	1030
Safe	O. E. Converse	604,894	May 31	3040	698	83	1274
Safe	G. L. Damon	614,421	Nov. 15	2143	494	85	1067
Safe	G. J. Gesswein	600,345	Mar. 8	1328	304	82	1493
Safe-alarm	J. F. Jones	606,555	June 28	2828	651	83	1950
Safe-boltwork	G. L. Damon	609,416	Aug. 23	2327	549	84	1156
Safe. Kitchen-	J. M. Curtice	602,733	Apr. 19	1979	449	83	405
Safe-lock	G. J. Gesswein	597,407	Jan. 18	1640	381	82	352
Safe or vault	J. H. Howard	613,680	Nov. 8	799	184	85	790
Safe or vault	E. C. Shankland	615,503	Dec. 6	545	125	85	1518
Safe. Passenger-car	I. Freed	606,336	June 28	2432	562	83	1872
Safe-protection system. Electrical	I. Freed	604,033	May 17	1472	330	83	937
Safety-coupling. Automatic	F. F. Siddall	601,483	Mar. 29	3310	749	82	1930
Safety-elevator	E. W. West	610,211	Sept. 6	105	22	84	1460
Safety-gate	E. W. Mason	602,460	Apr. 19	1509	344	83	316
Safety-gate	P. Motley	605,502	June 14	814	188	83	1530
Safety-lock for bolts and firing-pins	E. G. Parkhurst	599,288	Feb. 15	2069	491	82	1029
Safety-pin	H. S. Brewington	606,374	June 28	2500	581	83	1884
Safety-pin	W. E. Michael	601,666	Apr. 5	74	15	83	15
Safety-pin	J. T. Payne	601,981	Apr. 5	690	146	83	131
Safety-pin	M. Rhine	606,427	June 28	2607	601	83	1906
Sail for boats	F. Ljungström	612,209	Oct. 11	1086	261	85	222
Sails. Antifrictional hank for	J. S. Jennings	601,002	Mar. 22	2469	562	82	1741
Sails to spars. Device for attaching	F. P. Sands	601,282	Mar. 29	2972	672	82	1865
Saliva-ejector	A. W. Browne and C. M. Kennedy	602,572	Apr. 19	1692	385	83	350
Salt and pepper box	A. J. Savage	610,087	Aug. 30	3525	817	84	1402
Salt. Bath-	F. F. Myles	607,605	July 19	1983	421	84	421
Salt-cellar	J. F. Rose	616,143	Dec. 20	1719	399	85	1777
Salt-cellar and pepper-box. Combination	E. de Salignac	609,468	Aug. 23	2428	568	84	1174
Salt-grainer	N. S. Beardslee	612,230	Oct. 11	1124	269	85	230
Salt-making apparatus	T. Craney	605,082	June 7	24	7	83	1357
Salt or pepper shaker	G. K. Hamfeldt	600,262	Mar. 8	1202	273	82	1468
Salt-pan	W. Shedlock	611,152	Sept. 20	1824	420	84	1828
Salt-pan	H. Tee	609,128	Aug. 16	1802	429	84	1033
Salt-purifier	P. Yoder	615,335	Dec. 6	196	49	85	1451
Salt-shaker	D. A. Grant	608,516	Aug. 2	613	137	84	777
Salt-shaker	W. M. Myers	601,159	Mar. 22	2713	624	82	1789
Sample-case. Folding	C. H. Mersereau	606,893	July 5	469	101	84	98
Sample-case. Folding	C. H. Mersereau	606,894	July 5	471	101	84	98



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Sample-holder for boxes, drawers, &c	N. M. Brinkerhoff	615,795	Dec. 13	1056	248	85	1632
Sampling-machine	O. Byrnes	608,834	Aug. 9	1221	285	84	910
Sampling-mill	J. H. Stratton	599,649	Feb. 22	2790	649	82	1191
Sand and gravel. Apparatus for cleaning or separating	C. S. Barnett	615,667	Dec. 13	833	193	85	1589
Sand-blast	F. Burger	607,825	July 26	2397	509	84	519
Sand-blast	K. H. Cottle and R. C. Danly	604,559	May 24	2461	560	83	1142
Sand-blast apparatus	H. Buyten	614,833	Nov. 29	2871	660	85	1232
Sand-blast apparatus	J. E. Mathewson	610,189	Sept. 6	69	14	84	1453
Sand-board	L. M. Elliot	605,198	June 7	253	59	83	1398
Sand-box	J. R. Donley	603,266	May 3	42	11	83	609
Sand-box	T. J. Stanton	610,590	Sept. 13	837	191	84	1617
Sand-box. Automatic	H. B. Morse	596,527	Jan. 4	114	26	82	24
Sand-distributing device	J. J. Murray	599,345	Feb. 22	2195	521	82	1074
Sand-line spool	R. A. Dayton	601,638	Apr. 5	25	6	83	7
Sand molds. Drying	N. Shaw	615,109	Nov. 29	3420	785	85	1338
Sandpapering-machine	C. H. Driver	598,671	Feb. 8	1038	250	82	816
Sandpapering-machine for bent work	J. L. Perry	610,201	Sept. 6	88	18, 19	84	1457
Sand-press	F. O. Farwell	614,451	Nov. 22	2193	503	85	1090
Sander	H. L. Graham	601,095	Mar. 22	2610	595	82	1769
Sander-cylinders. Paper-fastening for	M. A. Beck	597,048	Jan. 11	1036	244	82	217
Sander feeding device	W. H. Kilbourn	613,861	Nov. 8	1135	260	85	853
Sanitary bowl	H. R. Hall	604,983	May 31	3183	733	83	1301
Sanitary or other pipe	A. Wakefield	608,239	Aug. 2	122	30	84	678
Sanitary trap	G. T. Cooper	607,983	July 26	2695	575	84	574
Sap-spout	E. Willis	606,613	June 28	2928	679	83	1968
Sash and frame. Window	E. G. Kendall	614,554	Nov. 22	2362	541	85	1121
Sash-balance	M. Barber and J. P. Ashby	605,215	June 7	289	67	83	1405
Sash-balance	E. A. E. Braunlich	599,313	Feb. 22	2133	506	82	1063
Sash-balance	W. C. and A. Brothers	601,425	Mar. 29	3217	725	82	1911
Sash-balance	W. Driscoll	609,930	Aug. 30	3229	758	84	1345
Sash-balance	F. W. Hironimus	598,478	Feb. 1	696	169	82	735
Sash-balance	H. A. Pischke	598,574	Feb. 8	870	208	82	786
Sash-balance	D. Sawyer and J. W. Price	601,283	Mar. 29	2973	672	82	1866
Sash-balance	R. M. Shaffer	612,367	Oct. 11	1374	332	85	275
Sash balance and fastener	J. H. Wallace and A. G. Hilton	598,880	Feb. 8	1374	331	82	882
Sash balance and lock	O. Vanorman	614,779	Nov. 22	2774	634	85	1199
Sash. Combined slidable and swinging	B. Hausmann	613,512	Nov. 1	541	122	85	718
Sash. Combined sliding and swinging	R. Adams	615,777	Dec. 13	1027	241	85	1626
Sash-cord fastener	W. M. Morton	613,932	Nov. 8	1250	284	85	875
Sash-cord guide	W. R. Fox	607,739	July 19	2269	467	84	464
Sash-cord guide	J. F. Thompson	612,684	Oct. 18	1941	459	85	396
Sash. Detachable	W. Romuender	601,680	Apr. 5	101	20	83	22
Sash, door, &c. Pivoted window-	W. Youtlen	600,472	Mar. 8	1549	356	82	1533
Sash-fastener	S. E. Bird	614,429	Nov. 15	2156	496	85	1069
Sash-fastener	J. A. Black	602,051	Apr. 12	801	173	83	163
Sash-fastener	L. H. Bowman	608,102	July 26	2910	623	84	619
Sash-fastener	T. J. Casey	601,369	Mar. 29	3118	704	82	1893
Sash-fastener	A. Coons	601,948	Apr. 5	642	134	83	120
Sash-fastener	O. L. Corbin	606,448	June 28	2638	607	83	1912
Sash-fastener	B. F. Cornell	598,696	Feb. 8	1084	261	82	825
Sash-fastener	W. A. Coulson	602,731	Apr. 19	1976	448	83	405
Sash-fastener	J. W. Crigler	612,310	Oct. 11	1275	308	85	256
Sash-fastener	G. Feltham	607,685	July 19	2123	445	84	447
Sash-fastener	C. P. Flora	599,555	Feb. 22	2602	610	82	1153
Sash-fastener	C. M. Fowler	600,862	Mar. 22	2234	509	82	1698
Sash-fastener	D. Gardner	611,961	Oct. 4	632	154	85	124
Sash-fastener	E. N. Gilfillan	601,750	Apr. 5	247	49	83	47
Sash-fastener	F. V. Greene	610,739	Sept. 13	1070	245	84	1665
Sash-fastener	J. Greife	606,484	June 28	2693	621	83	1923
Sash-fastener	R. Griffith	609,428	Aug. 23	2350	554	84	1160
Sash-fastener	A. Haenichen	601,959	Apr. 5	659	138	83	124
Sash-fastener	G. Henneberg and F. Bergmann	608,601	Aug. 9	775	178	84	828
Sash-fastener	S. C. Hovey	613,202	Oct. 25	2832	669	85	591
Sash-fastener	R. B. Hugunin	608,606	Aug. 9	782	180	84	829
Sash-fastener	H. B. Ives	611,171	Sept. 20	1854	427	84	1833
Sash-fastener	H. E. Leach	608,461	Aug. 2	521	116	84	759
Sash-fastener	D. L. Long	609,821	Aug. 30	3068	715	84	1312
Sash-fastener	W. A. McAdams	612,170	Oct. 11	1026	247	85	211
Sash-fastener	D. L. Moore, Jr	614,741	Nov. 22	2715	618	85	1187
Sash-fastener	E. J. Morgan	608,786	Aug. 9	1096	253	84	888
Sash-fastener	S. J. Nason	596,611	Jan. 4	272	60	82	54
Sash-fastener	G. C. Nicholson	607,762	July 19	2248	475	84	472
Sash-fastener	H. L. Norton	614,336	Nov. 15	1973	456	85	1035
Sash-fastener	F. H. Peters	609,904	Aug. 30	3199	750	84	1337
Sash-fastener	G. H. Poor	613,714	Nov. 8	873	202	85	803
Sash-fastener	C. H. Raymond	610,369	Sept. 6	444	96	84	1523
Sash-fastener	C. S. Roberts	612,869	Oct. 25	2296	547	85	482
Sash-fastener	A. H. Smith	615,753	Dec. 13	987	230	85	1618
Sash-fastener	H. L. Steinmeyer	599,745	Mar. 1	122	28	82	1239
Sash-fastener	T. B. Stevens	616,027	Dec. 13	1470	344	85	1713
Sash-fastener	T. G. Thomas	601,310	Mar. 29	3030	682	82	1876
Sash-fastener	J. T. Thompson	606,101	June 21	1973	453	83	1768
Sash-fastener	A. Tracy	610,207	Sept. 6	99	21	84	1459
Sash-fastener	H. G. Voight	610,209	Sept. 6	102	22	84	1460
Sash-fastener	J. J. Wade	599,667	Feb. 22	2826	657	82	1198
Sash-fastener	W. V. Walsh	606,948	July 5	543	120	84	108
Sash-fastener	A. C. Wilcox	597,475	Jan. 18	1771	410	82	378
Sash-fastener	W. Zaehring	598,756	Feb. 8	1178	283	82	843



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sash-fastener and door-lock	C. A. Pease	612,671	Oct. 18	1919	454	85	391
Sash-holder	I. H. Bowman	599,161	Feb. 15	1862	441	82	989
Sash-holder	S. S. Bradshaw	598,299	Feb. 1	291	66	82	657
Sash-holder	I. W. Brown	596,958	Jan. 4	878	206	82	171
Sash-holder	H. W. Denham	603,783	May 10	973	217	83	806
Sash-holder	R. H. Fenn	610,805	Sept. 13	1200	276	84	1691
Sash-holder	A. Haenichen	600,987	Mar. 22	2438	557	82	1735
Sash-holder	A. Haenichen	601,958	Apr. 5	657	138	83	123
Sash-holder	N. Harris	600,283	Mar. 8	1234	280	82	1475
Sash-holder	A. J. Inglet	609,810	Aug. 30	3040	711	84	1305
Sash-holder	O. P. Kvernum	604,537	May 24	2423	551	83	1135
Sash-holder	J. and T. W. Leask	603,907	May 10	1212	274 275	83	852
Sash holder and fastener	H. Taylor	599,154	Feb. 15	1849	438	82	987
Sash holder and fastener. Combined	D. Lauer	596,889	Jan. 4	747	176	82	146
Sash holder and lock	W. P. Gelabert	607,926	July 26	2599	551	84	557
Sash-lift	W. H. Green	610,135	Aug. 30	3598	835	84	1417
Sash lift and fastener	K. A. Klose	597,199	Jan. 11	1291	302	82	267
Sash-lifter	J. S. Messick	612,860	Oct. 25	2279	543	85	479
Sash lifter and lock	G. C. Young	606,262	June 28	2296	532	83	1846
Sash-lock	J. L. Barnes	610,699	Sept. 13	1001	232	84	1651
Sash-lock	R. D. Duff	610,155	Aug. 30	3628	843	84	1423
Sash-lock	G. W. Golden	611,246	Sept. 27	2006	462	84	1881
Sash-lock	E. W. Habermaas	604,982	May 31	3182	733	83	1301
Sash-lock	P. H. Holmes	613,570	Nov. 1	634	147	85	736
Sash-lock	G. A. Stedman	599,875	Mar. 1	383	86	82	1285
Sash lock and lift. Combination	I. W. Brown	605,196	June 7	249	58	83	1398
Sash lock and lifter	P. Marshall	598,797	Feb. 8	1238	299	82	854
Sash. Reversible window-	F. Cramblitt	603,478	May 3	428	95	83	683
Sash-roller	G. E. Schmitt	599,261	Feb. 15	2017	478	82	1019
Sash. Slidable hinged window-	W. McCall	614,211	Nov. 15	1731	397	85	991
Sash-supporter	R. Bohrisch	600,707	Mar. 15	1977	450	82	1634
Sash. Swinging window-	L. H. Broome	610,380	Sept. 6	465	101	84	1527
Sash-weight. Sectional	M. R. Farrar	608,114	July 26	2925	626	84	622
Sash. Window-	K. Anthony	616,283	Dec. 20	1986	462	85	1832
Sash. Window-	A. L. Bolles	612,921	Oct. 25	2377	566 567	85	498
Sash. Window-	J. S. Borden	601,547	Mar. 29	3418	776	82	1954
Sash. Window-	H. Pedersen	606,296	June 28	2349	543	83	1855
Sash. Window-	A. Ruman	598,644	Feb. 8	987	238 239	82	807
Sashes. Means for fastening panes of glass in window-	F. Sagebiel	615,750	Dec. 13	969	225	85	1615
Sashes. Means for hanging and guiding	E. Beck	605,069	June 7	4	1.2	83	1353
Sashes, transoms, &c. Lift for	G. Schwing	605,681	June 14	1144	266	83	1590
Satchel-handle	R. Eisenmann	608,254	Aug. 2	148	37	84	683
Saucepan	A. Rochat	601,589	Mar. 29	3477	792	82	1965
Sausage-casing machine	W. O. Johnson	601,019	Mar. 22	2494	567 568	82	1745
Sausage or meat cutting machine	J. Runser	600,128	Mar. 1	971	215 216	82	1408
Saw	J. I. Caruthers	604,603	May 24	2540	579	83	1159
Saw	J. Guedel	599,329	Feb. 22	2162	513	82	1069
Saw	E. H. Hutchinson	605,577	June 14	938	219	83	1554
Saw	J. H. Johnson	601,343	Mar. 29	3081	696	82	1885
Saw	T. L. Wallace	597,229	Jan. 11	1339	313	82	275
Saw	F. W. Walquist	615,005	Nov. 29	3218	740	85	1302
Saw	F. W. Walquist, G. Nelson, and J. L. Gronquist.	604,279	May 17	1931	432	83	1025
Saw. Band-	J. Johnson	614,003	Nov. 8	1368	312	85	899
Saw. Circular	S. T. Johnson	614,053	Nov. 8	1436	330	85	913
Saw-clamp	G. W. Fernside	616,305	Dec. 20	2026	472	85	1841
Saw-clamp	A. W. Krieger	612,502	Oct. 18	1598	382	85	331
Saw clamp and filing-guide. Band-	C. B. Winchell	602,205	Apr. 12	1076	236	83	216
Saw. Crosscut-	J. H. Carse	615,805	Dec. 13	1072	251	85	1635
Saw. Crosscut-	R. Wrublik	605,368	June 7	604	134	83	1467
Saw. Drag-	J. Carrothers	612,088	Oct. 11	887	214	85	184
Saw. Drag-	A. Cunningham	606,051	June 21	1877	432 433	83	1744
Saw-file	P. Lord	603,909	May 10	1214	275	83	852
Saw filing and setting machine	E. L. Garabrant	600,717	Mar. 15	1992	453 454	82	1637
Saw filing and setting machine	A. Keppeler	615,280	Dec. 6	111	30, 31	85	1435
Saw-filing device	R. F. Foss	599,327	Feb. 22	2159	512 513	82	1068
Saw-filing machine	H. E. Davis	608,282	Aug. 2	192	46	84	692
Saw-filing machine	S. Hicks	612,774	Oct. 18	2101	498 499	85	426
Saw-filing machine	T. M. Kenna	612,423	Oct. 18	1469	355	85	306
Saw-filing machine	T. L. Wallace and J. A. Reed	610,980	Sept. 20	1499	341 342 343 344 345 346	84	1765
Saw-filing machines. Spiral file for	H. L. Morrell	598,268	Feb. 1	352	82	82	668
Saw-frame	G. R. Clements	605,597	June 14	979	226	83	1560
Saw grinder. Band-	O. B. Bolton	612,698	Oct. 18	1958	464	85	399
Saw-guard	G. A. Fisher	615,833	Dec. 13	1116	261	85	1644
Saw guard. Circular-	E. Williams	611,725	Oct. 4	243	58, 59	85	50
Saw-guide	G. M. Hinkley	602,943	Apr. 26	2355	537	83	493
Saw guide. Band-	J. A. Dyer and H. D. Holmes	598,476	Feb. 1	693	169	82	734
Saw guide. Miter-	H. Weir	604,673	May 24	2657	609	83	1182
Saw-gumming machine	A. Riggs	605,515	June 14	832	193 194	83	1533
Saw. Hack-	G. N. Clemson	601,947	Apr. 5	641	134	83	120
Saw. Hack-	G. N. Clemson	603,128	Apr. 26	2671	606	83	553



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Saw. Hand-----	J. W. Helton-----	610,900	Sept. 20	1366	313	84	1740
Saw. Hand-----	R. C. Powell-----	601,480	Mar. 29	3302	747	82	1928
Saw-handle-----	E. C. Atkins-----	597,351	Jan. 11	1539	359	82	316
Saw-handle-----	F. Chingar-----	600,906	Mar. 22	2304	525	82	1710
Saw-handle-----	D. I. Green-----	602,158	Apr. 12	1000	219	83	201
Saw-handle-----	O. G. Peck-----	598,293	Feb. 1	401	95	82	677
Saw-handle-----	R. F. Smith-----	609,125	Aug. 16	1799	428	84	1033
Saw-jointer-----	R. D. King-----	605,550	June 14	887	207	83	1544
Saw jointing, gaging, and setting device-----	I. Arnold-----	604,574	May 24	2495	568	83	1150
Saw machine. Hack-----	F. S. Bradley and F. A. Cotton-----	604,714	May 31	2751	629	83	1218
Saw machine. Lumber circular-----	T. Bearman-----	614,924	Nov. 29	3049	699	85	1267
Saw. Meat or hand-----	J. Oldham-----	607,700	July 19	2154	453	84	453
Saw mill. Band-----	R. L. Hoyt-----	607,931	July 26	2607	553	84	558
Saw mill. Band-----	W. M. Wilkin-----	616,219	Dec. 20	1860	430	85	1806
Sawmill-carriage-----	U. Anderson-----	602,927	Apr. 26	2326	529 530	83	487
Sawmill-carriage-----	N. Shaw-----	610,565	Sept. 13	790	180 181	84	1606
Sawmill-carriage-----	W. Springer-----	615,587	Dec. 6	685	158	85	1546
Sawmill-carriage buffer-----	E. E. Fitzgerald-----	598,081	Feb. 1	18	5	82	606
Sawmill-carriage offsetting mechanism-----	F. W. Cook-----	598,412	Feb. 1	600	148	82	716
Sawmill-carriages. Automatic offset mechanism for-----	W. B. Heywood-----	600,225	Mar. 8	1129	258	82	1455
Sawmill-carriages. Wheel-guard for-----	J. W. Zimmerman-----	601,194	Mar. 22	2783	637	82	1801
Sawmill-dog-----	A. D. Lane-----	614,815	Nov. 22	2840	654	85	1212
Sawmill-dog-----	A. D. Lane-----	616,711	Dec. 27	2804	650	85	2010
Sawmill. Portable-----	F. Thompson-----	616,163	Dec. 20	1762	408	85	1787
Sawmill steam set-works-----	R. F. Barker and M. Corry-----	608,018	July 26	2775	590	84	593
Saw-oiler-----	C. C. Thompson-----	598,965	Feb. 15	1534	365	82	927
Saw. Scroll-----	J. G. Connelly-----	598,362	Feb. 1	506	122	82	697
Saw. Scroll-----	A. Jones-----	598,729	Feb. 8	1141	274	82	836
Saw-set-----	C. Brandell-----	616,398	Dec. 20	2198	513	85	1874
Saw-set-----	R. Brown-----	615,798	Dec. 13	1059	249	85	1632
Saw-set-----	H. Cottrell-----	616,406	Dec. 20	2216	517	85	1877
Saw-set-----	J. Frederickson-----	606,335	June 28	2431	562	83	1872
Saw-set-----	W. Littley-----	616,194	Dec. 20	1817	420	85	1798
Saw-set-----	H. Neidhardt-----	609,536	May 3	549	120	83	706
Saw set and jointer-----	J. F. Skersick-----	611,713	Oct. 4	213	51	85	44
Saw set and sharpener-----	P. E. Erickson-----	610,266	Sept. 6	223	50	84	1486
Saw setting and filing machine-----	H. L. Morrell-----	598,267	Feb. 1	348	81, 82	82	667
Saw-setting device-----	C. W. Haight-----	599,984	Mar. 1	563	130	82	1320
Saw-setting device-----	J. S. Henderson-----	613,817	Nov. 8	1068	243	85	840
Saw-setting machine-----	W. Clark-----	615,964	Dec. 13	1355	317	85	1689
Saw-sharpener-----	C. H. Douglas-----	603,007	Apr. 26	2460	560	83	511
Saw-sharpener-----	F. W. Robertson-----	616,587	Dec. 27	2551	590	85	1961
Saw-sharpening machine-----	L. L. Filstrup-----	615,152	Nov. 29	3498	804	85	1354
Saw-sharpening machine-----	F. Schmaltz-----	598,232	Feb. 1	282	64	82	656
Saw-sharpening machine-----	R. Taylor, Jr., and L. Dunkerley, Jr.-----	599,114	Feb. 15	1780	423 424 425	82	975
Saw strainer-rod. Wood-----	W. Smith and E. F. Shaw-----	607,712	July 19	2171	457	84	456
Saw-stretching-machine roll-----	G. M. Hinkley-----	608,774	Aug. 9	1077	248	84	886
Saw-swage-----	T. Walker-----	608,494	Aug. 2	574	129	84	769
Saw-table gage-----	A. Kott-----	602,261	Apr. 12	1167	257	83	235
Saw-tables. Automatic stop-gage for cut-off-----	S. S. Ingman-----	615,991	Dec. 13	1408	329	85	1700
Saw-teeth. Machine for compressing sides of swaged-----	A. Carrier-----	613,118	Oct. 25	2692	636	85	562
Saw, tenderer, and chopper. Combined meat-----	W. H. Gwinner-----	608,455	Aug. 2	512	115	84	757
Saw. Tenon or back-----	F. Wuest-----	607,107	July 12	889	192	84	191
Saw-tool-----	R. Bennett. (Reissue)-----	11,661	Apr. 26	2856	651	83	587
Saw-tool. Combination-----	H. L. Trueblood-----	603,491	May 3	463	103	83	689
Saw-tooth-ribbing machine-----	C. H. Douglas-----	601,999	Apr. 5	716	152	83	135
Saw-tooth-setting apparatus-----	P. Tommarchi-----	600,325	Mar. 8	1296	296	82	1486
Saws. Duplex stay for buck-----	O. A. Rogers-----	599,795	Mar. 1	206	51	82	1254
Saws. Means for stiffening circular-----	C. Fosby-----	601,773	Apr. 5	290	57	83	55
Saws. Mechanism for oscillating gang-----	W. M. Wilkin-----	616,220	Dec. 20	1863	431	85	1807
Saws. Patching-----	M. D. Ahearn-----	602,293	Apr. 12	1230	271	83	247
Sawing attachment for portable engines. Wood-----	E. Jacquin-----	607,618	July 19	2011	417	84	426
Sawing-machine-----	A. W. Brown and J. Meiklejohn-----	596,802	Jan. 4	612	141	82	118
Sawing-machine-----	F. A. Buck and J. D. Valentine-----	597,950	Jan. 25	2578	602	82	550
Sawing-machine-----	F. Chingar-----	604,727	May 31	2769	634	83	1221
Sawing-machine-----	L. A. Deuther-----	605,406	June 7	672	149	83	1482
Sawing-machine-----	C. F. Rood-----	603,541	May 3	554	122	83	708
Sawing-machine-----	D. S. Stewart-----	606,035	June 21	1848	426	83	1738
Sawing machine. Adjustable crosscut-----	S. F. Ewart-----	614,263	Nov. 15	1845	426	85	1011
Sawing machine. Log-----	J. Allen and M. L. Jones-----	606,041	June 21	1860	429	83	1740
Scaffold-----	R. Rue and J. C. Devine-----	597,205	Jan. 11	1303	304	82	269
Scaffold-----	J. Sladek-----	607,805	July 19	2351	497	84	491
Scaffold-bracket-----	M. D. Farrin-----	600,773	Mar. 15	2083	477	82	1655
Scaffold-bracket-----	L. S. Miller-----	609,287	Aug. 16	2105	498	84	1094
Scaffold-clamp-----	J. Evans-----	600,860	Mar. 22	2232	509	82	1697
Scaffold. Combination-----	J. V. Garrett-----	604,979	May 31	3178	732	83	1300
Scaffold-hanger-----	C. H. Bowie-----	610,888	Sept. 20	1345	308	84	1736
Scaffold. Portable-----	L. E. Webber-----	610,934	Sept. 20	1420	326 327	84	1751
Scaffold safety attachment-----	M. Cody-----	613,971	Nov. 8	1310	298	85	887
Scaffold-support-----	H. D. Lukens-----	606,763	July 5	247	51	84	49
Scalding-tank hog conveyer, elevator, and throw-out-----	F. Cowin-----	613,191	Oct. 25	2802	661	85	585
Scale-----	H. Fairbanks and W. H. Sargent-----	597,641	Jan 18	2035	475 476	82	431
Scale-----	L. Hachenberg-----	605,638	June 14	1069	245 246	83	1576
Scale-----	C. H. Mattice-----	599,529	Feb. 22	2554	599 600	82	1144
Scale-----	O. O. Ozias-----	596,760	Jan 4	545	125	82	105
Scale-----	C. M. Schenck-----	610,307	Sept. 6	320	68, 69	84	1503
Scale-----	C. G. Strubler-----	596,727	Jan. 4	482	110 111	82	94



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Scale	J. H. Swihart	603,415	May 3	298	67	83	657
Scale. Air-	H. J. Wintherlich	599,378	Feb. 22	2262	536	82	1088
Scale and grip and lifting machine. Coin-controlled weighing-	G. G. S. Merry	610,766	Sept. 13	1122	257 258	84	1675
Scale. Asphalt-	P. C. Brennan	615,423	Dec. 6	391	93	85	1489
Scale attachment. Platform-	B. K. Climie	597,761	Jan. 25	2246	522	82	487
Scale. Automatic wagon-	H. H. Freeman	601,339	Mar. 29	3072	693	82	1884
Scale-beam	J. A. Fleming	609,880	Aug. 30	3158	737	84	1329
Scale-beam	F. A. Pearsons	613,526	Nov. 1	562	127	85	722
Scale. Computing-	C. Corbin	608,441	Aug. 2	488	111	84	752
Scale. Computing-	J. E. Duncan	597,607	Jan. 18	1982	462	82	421
Scale. Computing-	T. J. Dunlea	616,227	Dec. 20	1882	434 435	85	1811
Scale. Computing-	T. A. Killman and H. A. Bratten	604,535	May 24	2419	550	83	1134
Scale. Computing-	C. G. Strubler	596,726	Jan. 4	479	110	82	93
Scale. Computing-	J. H. Swihart	597,922	Jan. 25	2522	589	82	538
Scale. Computing-	J. H. Swihart	616,743	Dec. 27	2858	663	85	2022
Scale for measuring material in bulk. Automatic	P. B. Clarke	601,997	Apr. 5	712	151	83	134
Scale fulcrum and bearing	E. Finn	606,529	June 28	2789	644	83	1942
Scale. Joint-measuring	O. Schubert	597,330	Jan. 11	1502	350	82	309
Scale. Line-dividing	A. A. Olund	604,075	May 17	1560	349	83	952
Scale or balance. Computing	B. Lyon	600,837	Mar. 15	2186	498	82	1674
Scale. Platform-	W. H. Sanderson	601,881	Apr. 5	503	103	83	94
Scale. Price-	T. J. Dunlea	597,670	Jan. 18	2088	489	82	440
Scale. Price-	F. L. Fuller	602,658	Apr. 19	1843	420	83	378
Scale. Price-	A. U. Smith	597,300	Jan. 11	1442	338	82	296
Scale. Price and weighing	O. O. Ozias	616,348	Dec. 20	2107	491 492	85	1856
Scale-scraping device	W. M. Reed	616,010	Dec. 13	1446	338 339	85	1707
Scale. Small	M. G. Wheeler	615,987	Dec. 13	1307	304	85	1679
Scale. Spring-	J. G. Grimmel	608,518	Aug. 2	622	140	84	778
Scale. Spring-	M. H. Hansen	612,968	Oct. 25	2454	586	85	515
Scale. Spring-balance	J. H. Swihart	612,069	Oct. 11	852	207 208	85	177
Scale. Wagon-	A. Bradley	603,937	May 10	1261	287	83	861
Scale. Weighing-	J. Hempstalk	604,827	May 31	2925	669	83	1251
Scale. Weighing-	W. N. Pelouze	601,273	Mar. 29	2957	669	82	1863
Scale. Weighing-	W. H. Post	612,505	Oct. 18	1603	383	85	332
Scale. Weighing-	F. W. Taylor	597,697	Jan. 18	2138	499	82	448
Scale-weight	J. F. Brazelton	604,715	May 31	2755	629	83	1218
Scales, &c. Indicating or like mechanism for price-	F. L. Fuller	603,503	May 3	481	107	83	693
Scales. Indicating or like mechanism for price-	F. L. Fuller	603,504	May 3	484	107	83	694
Scales. Indicating or like mechanism for price-	F. L. Fuller	603,505	May 3	489	108	83	695
Scales. Price-indicating attachment for weighing-	D. H. Allen and W. H. Gamble. (Reissue.)	11,699	Oct. 25	2892	681	85	601
Scales. Printing-register for weighing-	H. Fairbanks	597,640	Jan. 18	2032	474 475	82	430
Scales. Printing-register for weighing-	H. Fairbanks and F. W. Taylor	616,303	Dec. 20	2024	471	85	1841
Scales. Ticket and ribbon holder for recording-	H. Paddock	597,654	Jan. 18	2061	482	82	436
Scalloping-machine	C. A. Gilman	608,390	Aug. 2	398	88	84	734
Scarf. Neck-	M. Bandler	613,551	Nov. 1	599	138	85	730
Scarf-pins, hat-pins, &c. Fastening device for	C. E. True	610,617	Sept. 13	874	200	84	1625
Scholar's companion	E. K. Graham	597,481	Jan. 18	1786	413	82	381
School-seat	F. L. Rainbow	607,275	July 12	1214	259	84	251
School seat and desk. Adjustable	B. Clark	611,606	Oct. 4	22	5	85	7
Scissors	F. Krupp	614,872	Nov. 29	2960	680	85	1250
Scissors or shears	G. W. Elliott	607,839	July 26	2436	517	84	525
Scissors or shears. Sheet-metal	M. C. Ogden	606,472	June 28	2675	616	83	1919
Scissors. Pinking-	I. Olmsted	609,364	Aug. 16	2232	527	84	1119
Scoop	J. Moses	600,592	Mar. 15	1781	407	82	1597
Scoop and hand-truck. Combined	L. E. Twist	609,129	Aug. 16	1803	429	84	1033
Scoop-board	F. M. Tenney	604,807	May 31	2895	662	83	1246
Scoop-handle attachment	G. Berck	607,154	July 12	978	211	84	206
Scourer:							
See Grain-scourer.	Knife-scourer.						
Scouring, disintegrating, and separating machine.	J. M. Case	601,728	Apr. 5	201	39, 40	83	40
Scow. Dumping-	E. Lays	606,289	June 28	2337	541	83	1853
Scow. Dumping-	N. Stickney	605,762	June 14	1275	295	83	1616
Scraper	A. E. Houghton	614,810	Nov. 22	2833	652	85	1210
Scraper and cultivator. Cotton	E. W. Deveney	605,687	June 14	1154	267	83	1593
Scraper and grader. Wheeled dumping	W. C. Bradford	603,421	May 3	306	69	83	659
Scraper. Cotton-	G. P. Dowling	603,426	May 3	318	71	83	660
Scraper. Cotton-	G. D. McElwee	600,739	Mar. 15	2033	464	82	1646
Scraper. Cotton-	G. L. Muckleroy	615,875	Dec. 13	1175	275	85	1655
Scraper. Cotton and corn	T. F. Dove	604,207	May 17	1802	405	83	1000
Scraper. Dirt-	F. Grote	606,540	June 28	2805	646	83	1945
Scraper. Foot-	F. F. Fobare	613,133	Oct. 25	2711	641	85	566
Scraper for roadwork or ditching	J. E. Rich	606,580	June 28	2872	661	83	1959
Scraper. Wheeled.	M. G. Bunnell	598,281	Feb. 1	378	88	82	673
Scraper. Wheeled.	T. R. McKnight	607,520	July 19	1825	380 381	84	393
Scraper. Wheeled.	W. X. Simpson	609,593	Aug. 23	2649	619 620	84	1216
Scraper. Wheeled.	R. H. Villard	608,535	Aug. 2	645	145 146	84	782
Screen:							
See Coal-screen.	Paper-pulp screen.						
Door or window screen.	Photographic color-screen.						
Fire-screen.	Portable screen.						
Fireplace-screen.	Pulp-screen.						
Fly-screen.	Window-screen.						
Gate-screen.	Window or door screen.						
Head-screen.							
Screen	G. W. Cross	599,468	Feb. 22	2448	576	82	1124
Screen	D. E. Phillips	597,245	Jan. 11	1361	318	82	280



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Screen	G. Sander and A. E. Dieter	612,871	Oct. 25	2298	548	85	483
Screens, &c. Detachable foot for	W. J. Quarry	604,215	May 17	1814	407	83	1992
Screening apparatus	H. E. Sturcke	616,033	Dec. 13	1485	347	85	1716
Screening or bolting machine	F. Brandstaedter	615,524	Dec. 6	576	132	85	1524
Screw	P. W. Cassil	603,891	May 10	1185	268	83	846
Screw	J. Van Ommeren	610,423	Sept. 6	534	117	84	1541
Screw-clamp	H. C. Swan	600,389	Mar. 8	1398	320	82	1506
Screw-cutting attachment	J. Hartness	596,750	Jan. 4	525	120	82	101
Screw-cutting device	A. D. Laws	599,968	Mar. 1	540	123	82	1315
Screw-cutting die	J. Hartness	614,949	Nov. 29	3123	716 717	85	1284
Screw-cutting die-head	K. Mischke	606,223	June 28	2216	509	83	1828
Screw-cutting machine	J. Batey	600,133	Mar. 8	979	218	82	1425
Screw-cutting machine	J. A. Becher	599,924	Mar. 1	471	106	82	1303
Screw-cutting machine	J. Reymond and A. Poincenot	602,689	Apr. 19	1911	435	83	392
Screw-dies. Machine for milling variable grooves in	A. Urban	602,884	Apr. 26	2236	506 507 508	83	470
Screw driver and drawer	G. B. Jocelyn	604,250	May 17	1876	420	83	1014
Screw-drivers. Screw-holding attachment for	C. B. Webster	601,188	Mar. 22	2770	635	82	1799
Screw for aerial ladders, &c. Elevating	A. W. La France	602,262	Apr. 12	1168	257	83	235
Screw. Jack-	T. Coughlan	611,832	Oct. 4	421	100	85	84
Screw. Jack-	W. W. McAlpine	616,683	Dec. 27	2751	638	85	2000
Screw-jack. Ball-bearing	D. Glenn	610,044	Aug. 30	3458	801	84	1388
Screw-jack head	D. Glenn	610,045	Aug. 30	3459	801	84	1388
Screw-machine	W. G. Burnham and J. Parker	616,654	Dec. 27	2686	622	85	1987
Screw-machine die-head	W. Morgan	610,632	Sept. 13	898	206	84	1630
Screw machine. Metal-	E. E. Claussen	612,558	Oct. 18	1699	403 404 405	85	350
Screw machine. Metal-	W. S. Davenport	604,306	May 17	1984	445 446	83	1035
Screw-machines or lathes. Box-tool for	J. P. Lavigne	602,908	Apr. 26	2286	521	83	478
Screw-operating implement	C. E. Francis	614,804	Nov. 22	2824	650	85	1209
Screw-slotting machine	H. Hubbell	602,288	Apr. 12	1218	268 269	83	245
Screw-thread-cutting tool	F. G. Echols	610,158	Aug. 30	3630	844	84	1424
Screw-threading-machine attachment	J. M. Davidson	598,196	Feb. 1	218	50	82	644
Screw union or coupling	C. A. Higbee	597,000	Jan. 11	953	226	82	202
Screw-wrench	F. L. Coes	608,439	Aug. 2	485	110	84	752
Screws, &c. Automatic machine for making	C. T. Nelson	614,214	Nov. 15	1736	399	85	992
Screws under water. Machine for driving	J. J. Rauscher and C. H. Clark	599,011	Feb. 15	1606	381 382	82	941
Scroll-machine	C. F. Shoemaker	613,428	Nov. 1	397	91	85	692
Scrubber	W. H. Heinz	607,040	July 12	729	157	84	162
Scrubbing appliance	F. W. Richter	601,678	Apr. 5	97	19	83	21
Scrubbing-machine	L. B. Fields	608,326	Aug. 2	289	64	84	713
Scrubbing-machine	J. E. and W. J. Gee	610,397	Sept. 6	491	107	84	1533
Scrubbing-machine	H. E. Lane	608,052	July 26	2833	604	84	604
Sculpturing-machine	A. Bontempi	599,160	Feb. 15	1859	440 441	82	988
Scutching-machine feeder	E. G. A. Schenson	606,476	June 28	2679	617 618	83	1920
Scuttle or skylight operator	F. Hayes	606,057	June 21	1891	435	83	1746
Scythe	S. J. Baker and J. King	615,518	Dec. 6	565	129	85	1521
Scythe	G. Nolin	598,387	Feb. 1	540	132	82	705
Seaweed. Treating	A. Krefling	598,790	Feb. 8	1230	---	82	853
Seal	W. F. Beasley	607,821	July 26	2391	508	84	517
Seal	E. J. Brooks	599,827	Mar. 1	291	65	82	1268
Seal	E. J. Brooks	609,495	Aug. 23	2487	581	84	1186
Seal	E. J. Brooks	611,889	Oct. 4	515	125	85	103
Seal	T. N. Fisher	602,129	Apr. 12	981	203	83	188
Seal	F. R. Lacoste	610,405	Sept. 6	507	111	84	1536
Seal	E. Tyden	610,955	Sept. 20	1456	333	84	1757
Seal	E. Tyden	614,634	Nov. 22	2524	575	85	1150
Seal and tag. Car	E. De Lamater	597,959	Jan. 25	2589	605	82	552
Seal and tag. Combined car	H. A. Kennedy and F. S. Salisbury	601,344	Mar. 29	3082	696	82	1886
Seal-bolt	P. C. Dockstader	601,770	Apr. 5	285	56	83	55
Seal. Bottle-	S. F. Estell	615,543	Dec. 6	618	140	85	1532
Seal. Bottle-	J. L. Follett	611,242	Sept. 27	1998	461	84	1880
Seal. Bottle safety-	A. L. Elder	603,559	May 3	582	129	83	714
Seal-breaking instrument. Car-	T. A. Leyendecker	605,730	June 14	1219	282	83	1605
Seal. Car-	N. S. Kline	600,916	Mar. 22	2322	529	82	1713
Seal. Car-	A. H. Peirce	615,461	Dec. 6	458	108	85	1500
Seal. Car-	A. B. Schofield	599,066	Feb. 15	1700	403	82	961
Seal for bottles. Protective	W. B. O'Brien	612,266	Oct. 11	1198	287	85	243
Seal-lock	W. F. Beasley	607,822	July 26	2392	508	84	518
Seal-lock	H. B. Brower	599,956	Mar. 1	521	118 119	82	1311
Seal-lock	C. H. Connolly	613,620	Nov. 1	712	165 166	85	752
Seal-lock	P. C. Dockstader	605,277	June 7	420	95	83	1432
Seal-lock	J. Dowling	606,408	June 28	2563	593	83	1896
Seal-lock	W. K. Edgar	605,278	June 7	422	95	83	1432
Seal-lock	M. E. Kanaly	606,418	June 28	2589	597	83	1902
Seal-lock	O. B. Kirkpatrick	613,928	Nov. 8	1242	282	85	874
Seal-lock	O. B. Kirkpatrick and G. L. Banks	607,512	July 19	1814	377	84	391
Seal-lock	E. H. Morse	607,260	July 12	1176	252	84	242
Seal-lock	S. T. Nickerson	613,388	Nov. 1	309	72	85	676
Seal-lock	J. E. Priest	597,564	Jan. 18	1906	444	82	405
Seal-lock	A. T. Sansbury	611,846	Oct. 4	446	106	85	90
Seal-lock	P. B. Smith	616,499	Dec. 27	2408	558	85	1936
Seal-lock	J. W. Stevens	604,433	May 24	2226	498	83	1101
Seal-lock	J. H. Vance	597,923	Jan. 25	2523	590	82	539
Seal. Newspaper-	L. C. Crowell	609,735	Aug. 23	2907	681	84	1266
Seal-press	A. B. Schofield	601,404	Mar. 29	3182	718	82	1905



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Seal. Self-locking	A. Melin	609,621	Aug. 23	2723	635	84	1230
Seal trap. Liquid	L. E. Stanford	616,025	Dec. 13	1468	343	85	1712
Seals for bottles. Apparatus for recrimping crown	L. Schafer	602,916	Apr. 26	2302	525	83	481
Sealing and stamping device. Envelop	S. Crane	616,772	Dec. 27	2903	674	85	2031
Sealing device	G. W. Gomber	604,467	May 24	2299	522	83	1114
Sealing device	G. W. Gomber	605,709	June 14	1193	275	83	1600
Sealing device. Bottle	W. Painter	608,157	July 26	2997	643	84	636
Sealing device for bottle-stoppers	J. Bernes	603,035	Apr. 26	2500	567	83	519
Sealing machine. Envelop	O. S. Jordan and E. F. Baum	607,174	July 12	1011	220	84	212
Sealing machine. Newspaper	H. T. Sundstrom	603,458	May 3	374	85 86 87	83	672
Sealing metal boxes, &c. Means for hermetically	J. Gersant and A. G. Buttifant	605,604	June 14	1000	231	83	1563
Sealing-wax can	F. H. Wightman	599,412	Feb. 22	2329	550	82	1101
Seam-feller. Lap	J. S. Finkenbinder	607,005	July 5	660	143	84	131
Seam for sewed articles. Overedge	J. G. Greene	598,338	Feb. 1	466	111	82	690
Seam for sewed fabrics	C. E. Bentley	599,215	Feb. 15	1944	461	82	1004
Seam. Overedge	H. A. Klemm	613,577	Nov. 1	644	149	85	738
Seam-ripper	L. Merrill	608,206	Aug. 2	70	19	84	669
Seam-ripping device	J. E. Fisher	604,675	May 24	2660	609	83	1183
Seams of vessels fluid-tight. Means for making	J. E. Liddy	613,693	Nov. 8	824	189	85	794
Seaming machine. Sheet-metal	E. Norton	610,558	Sept. 13	778	177	84	1604
Seat:							
See Couch-seat.	Spring-seat.						
Counter-seat.	Tub-seat.						
Dray swing-seat.	Valse-seat.						
Folding seat.	Vehicle-seat.						
Lecture-room seat.	Window-seat.						
School-seat.	Window-cleaning seat.						
Seat	J. Cadman and E. Malley	598,557	Feb. 8	840	200	82	780
Seat cover. Outdoor	W. English	611,617	Oct. 4	41	10	85	11
Seat or cushion	P. F. Quinn	611,274	Sept. 27	2072	477	84	1394
Seat or settee	E. J. Smith	609,916	Aug. 30	3220	754	84	1341
Seat-post and saddle clamp	W. A. Dickitson	614,261	Nov. 15	1842	425	85	1010
Seat-post bracket	W. H. Crosby and T. J. Tellefsen	600,276	Mar. 8	1224	278	82	1473
Seating. Depot	C. B. Demarest	596,986	Jan. 11	929	220	82	198
Secondary battery	C. Brault	605,695	June 14	1169	269	83	1595
Secondary battery	W. A. Crowdus	599,315	Feb. 22	2136	507	82	1064
Secondary battery	N. H. Edgerton	614,539	Nov. 22	2340	536	85	1118
Secondary battery	G. J. Miller	610,190	Sept. 6	71	15	84	1454
Secondary battery	F. W. Schneider	602,172	Apr. 12	1019	224	83	205
Secondary battery	G. Walter	608,015	July 26	2771	589	84	592
Sectional boiler	H. H. Taylor	606,313	June 28	2382	552	83	1862
Seed and fertilizer distributor	S. L. Allen	603,476	May 3	421	93, 94	83	681
Seed-cleaner	W. A. Rice	612,674	Oct. 18	1923	455	85	392
Seed-cleaning machine. Cotton	J. A. Lewis	603,448	May 3	353	80	83	668
Seed conveyor. Cotton	H. W. Graber	603,185	Apr. 26	2758	627	83	569
Seed delinter. Cotton	J. S. Rosamond	597,123	Jan. 11	1169	275	82	243
Seed delinter. Cotton	J. S. Rosamond	597,124	Jan. 11	1173	275	82	245
Seed-delinting machine. Cotton	T. C. Black	614,435	Nov. 22	2165	498	85	1086
Seed-delinting machine. Cotton	W. A. Ragsdale	597,327	Jan. 11	1496	349	82	308
Seed-delinting machine. Cotton	F. E. Rosamond	597,125	Jan. 11	1178	276	82	245
Seed-drill	E. E. Hills	598,093	Feb. 1	38	9, 10	82	610
Seed-drill	T. J. King	596,600	Jan. 4	254	56	82	50
Seed-drill	J. Porteous and R. W. Cole	609,905	Aug. 30	3199	750	84	1337
Seed-drill	W. Stephenson	603,862	May 10	1134	255	83	837
Seed-drill cleaner	B. Gish	614,223	Nov. 15	1751	402 403	85	994
Seed-drill-disk shoe	W. Stephenson	603,863	May 10	1134	255	83	837
Seed-dropper	C. C. Chancey	616,768	Dec. 27	2895	671	85	2029
Seed-dropper	G. R. Dykes	616,298	Dec. 20	2017	470	85	1839
Seed hulls. Means for separating fiber from cotton	W. C. Johnson	613,208	Oct. 25	2854	672 673	85	504
Seed-hulling machine. Cotton	F. W. Cross	600,575	Mar. 15	1753	400 401 198 199	82	1592
Seed press-drill	J. M. King	612,043	Oct. 11	803	198 199	85	168
Seed-scouring device. Cotton	W. A. Ragsdale	601,169	Mar. 22	2737	629	82	1792
Seed separator. Cotton	J. A. Garrett	606,533	June 28	2793	645	83	1943
Seeds. Compound for treating	G. Thiele	608,627	Aug. 9	824	746 747	84	836
Seeding implements. Furrow-opener for	F. R. Packham	601,477	Mar. 29	3298	746 747	82	1927
Seeding-machine	W. D. Arnett	610,316	Sept. 6	336	72	84	1506
Seeding-machine	E. Christman	607,914	July 26	2577	546	84	552
Seeding-machine	E. Christman, T. Brennan, Jr., and L. W. Homire	602,827	Apr. 26	2154	489	83	454
Seeding-machine	W. H. Davis	613,667	Nov. 8	783	179	85	786
Seeding-machine	K. Paskás	606,475	June 28	2678	617	83	1920
Seeding-machine	G. L. Roby	611,650	Oct. 4	103	25, 26	85	23
Seeding-machine	W. W. Schultz	605,348	June 7	564	125	83	1460
Seesaw	A. M. Davis	599,833	Mar. 1	304	68	82	1270
Seesaw	F. G. Rogers and F. Thompson	612,993	Oct. 25	2190	593	85	522
Seesaw. Portable	R. F. Hamilton	614,948	Nov. 29	3122	715	85	1283
Seine-pursing machine	C. H. Gaffney	604,312	May 17	1998	448	83	1038
Self-closing gate	P. B. Green	609,668	Aug. 23	2806	654	84	1247
Self-igniting substance	J. M. Canellopoulos	599,221	Feb. 15	1951	82	1006	
Self-leveling table	C. W. Allen	613,436	Nov. 1	412	94	85	694
Self-leveling table	W. A. Miller	600,481	Mar. 8	1560	359	82	1535
Self-locking coupling or bearing	C. Dietz	606,778	July 5	273	56, 57	84	55
Self-lubricating engine	E. E. Hanna	606,543	June 28	2809	647	83	1945
Self-measuring tank for liquids	C. F. and P. F. Lewis	613,690	Nov. 8	819	188	85	793
Self-oiling wheel	I. R. Titus and J. W. Ensign	602,379	Apr. 12	1363	305	83	274
Self-playing instrument	F. W. Hedgeland	612,164	Oct. 11	1018	245	85	209
Self-sealing jar or vessel	W. D. McLaughlin	597,014	Jan. 11	974	230	82	206
Self-setting trap	F. W. Frampton	596,990	Jan. 11	934	221	82	199



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Semisteel.....	B. S. Summers and R. J. Barr .....	612,532	Oct. 18	1645		85	340
Separating apparatus.....	A. F. McClatchey and C. L. Krum .....	602,515	Apr. 19	1595	365	83	333
Separating laminated packs. Machine for .....	T. A. Dobbins.....	606,522	June 28	2750	366	83	1935
Separating-machine.....	J. Higginbottom.....	615,618	Dec. 6	738	635	85	1557
Separating-machine.....	W. W. Huntley.....	616,189	Dec. 20	1810	170	85	1797
Separator:					171		
See Air-separator. Internal separator.					418		
Berry-separator. Magnetic separator.							
Centrifugal separator. Metal-separator.							
Oil and water separator.							
Oil and water separator.							
Ore-separator.							
Pea or bean separator.							
Potato-separator.							
Seed-separator.							
Sheet-separator.							
Steam-separator.							
Steam and water separator.							
Wheat-separator.							
Hydraulic separator.							
Separator.....	O. M. Morse.....	606,292	June 28	2342	542	83	1854
Separator.....	R. W. Jessup.....	608,049	July 26	2828	543	84	603
Separator.....	R. W. Jessup.....	612,243	Oct. 11	1150	603	85	234
Separator.....	J. G. Kincaid and W. Crockatt .....	612,207	Oct. 11	1083	276	85	221
Separator.....	A. R. Penprase.....	612,650	Oct. 18	1881	259	85	384
Separator.....	M. T. Reeves and J. N. Kailor.....	599,357	Feb. 22	2220	260	82	1079
Separator and concentrator.....	C. E. Crowell and M. F. Gale.....	603,319	May 3	128	527	83	626
Separator and purifier.....	W. H. Likins.....	608,880	Aug. 9	1299	528	84	926
Service-box.....	I. C. Koehne.....	616,542	Dec. 27	2477	574	85	1948
Sewage, &c., by bacterial action. Purifying	W. M. Ducat.....	607,426	July 19	1487	575	84	320
Sewage-raising apparatus.....	S. H. Adams.....	609,321	Aug. 16	2165	316	84	1106
Sewer.....	J. C. McGowan.....	596,531	Jan. 4	122	512	82	26
Sewer-brace.....	J. L. Potter.....	597,738	Jan. 25	2204	28	82	479
Sewer catch-basin.....	J. W. Hershberger.....	601,794	Apr. 5	330	514	83	62
Sewer construction.....	G. E. Waring, Jr.....	601,742	Apr. 5	236	66	83	46
Sewer-pipe delivering and inverting apparatus.....	C. W. Vaughn.....	613,741	Nov. 8	934	214	85	814
Sewer-trap.....	W. Godfrey.....	608,450	Aug. 2	500	215	84	755
Sewer-trap.....	D. Higgins.....	596,751	Jan. 4	527	113	82	102
Sewer-trap.....	H. Pennie.....	616,252	Dec. 20	1934	120	85	1822
Sewers. Automatic gate for flushing.....	S. S. Tilton.....	614,675	Nov. 22	2598	448	85	1163
Sewers, &c. Gate for.....	J. C. McGowan.....	616,486	Dec. 27	2377	590	85	1930
Sewers, water-closets, &c. Cleaning device for.....	J. Wrigley.....	599,089	Feb. 15	1732	551	82	967
Sewing and seam-finishing machine. Shoe-	J. B. Hadaway.....	616,315	Dec. 20	2041	552	85	1844
Sewing looped fabrics. Machine for.....	A. Young and W. Wenner.....	599,136	Feb. 15	1818	475	82	982
Sewing-machine.....	J. E. Bertrand.....	607,404	July 12	1439	431	84	294
Sewing-machine.....	H. A. Blanchard.....	612,011	Oct. 11	750	306	85	157
Sewing-machine.....	S. Borton.....	608,317	Aug. 2	261	185	84	707
Sewing-machine.....	J. A. Brautigam.....	611,768	Oct. 4	302	59, 60	85	62
Sewing-machine.....	F. Chase.....	605,040	May 31	3283	72, 73	83	1321
Sewing-machine.....	H. Diamond.....	615,436	Dec. 6	407	754	85	1492
Sewing-machine.....	P. Diehl.....	612,409	Oct. 18	1447	97, 98	85	302
Sewing-machine.....	J. B. Dobyne.....	611,896	Oct. 4	527	349	85	105
Sewing-machine.....	E. Duplessis.....	615,263	Dec. 6	75	128	85	1427
Sewing-machine.....	D. W. Goodell.....	597,555	Jan. 18	1892	129	82	403
Sewing-machine.....	W. T. Hart.....	597,610	Jan. 18	1989	439	82	422
Sewing-machine.....	H. E. Hawes.....	610,486	Sept. 6	643	463	84	1562
Sewing-machine.....	C. B. Hunt.....	600,423	Mar. 8	1452	144	82	1516
Sewing-machine.....	F. Jacob.....	614,657	Nov. 22	2559	331	85	1156
Sewing-machine.....	F. O. Jerram.....	602,988	Apr. 26	2427	332	83	505
Sewing-machine.....	K. S. Klogel.....	597,802	Jan. 25	2331	552	82	503
Sewing-machine.....	G. E. Kott.....	611,579	Sept. 27	2650	545	84	2002
Sewing-machine.....	W. A. Mack.....	608,553	Aug. 2	681	611	84	790
Sewing-machine.....	J. H. Mooney.....	600,231	Mar. 8	1138	154	82	1457
Sewing-machine.....	L. Muther and E. C. Holland.....	605,325	June 7	505	155	83	1449
Sewing-machine.....	F. H. Richards.....	607,081	July 12	842	260	84	182
Sewing-machine.....	F. H. Richards.....	613,471	Nov. 1	457	112	85	703
Sewing-machine.....	F. H. Richards.....	613,472	Nov. 1	465	184	85	704
Sewing-machine.....	F. H. Richards.....	613,473	Nov. 1	473	105	85	705
Sewing-machine.....	H. P. Richards.....	607,079	July 12	830	106	84	180
Sewing-machine.....	J. A. Sanford.....	615,752	Dec. 13	971	107	85	1616
Sewing-machine.....	H. R. Tracy.....	597,338	Jan. 11	1515	182	82	212
Sewing-machine.....	H. R. Tracy.....	613,536	Nov. 1	576	354	85	725
Sewing-machine.....	H. R. Tracy.....	613,537	Nov. 1	578	131	85	726



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sewing-machine .....	C. H. Willcox, C. Carleton, and S. Borton.	603,988	May 10	1334	305 306	83	876
Sewing-machine .....	C. H. Willcox, J. E. A. Gibbs, and S. Borton.	603,989	May 10	1339	307	83	877
Sewing-machine attachment .....	N. P. Duncan	600,111	Mar. 1	887	204	82	1387
Sewing-machine attachment .....	C. Reynolds	613,604	Nov. 1	691	159	85	748
Sewing-machine attachment .....	C. Schneider	604,161	May 17	1712	386	83	982
Sewing-machine attachment .....	C. F. Sheldon	600,895	Mar. 22	2289	522	82	1707
Sewing-machine attachments. Folding work-receiver for	M. A. Persons	612,786	Oct. 18	2127	505	85	431
Sewing-machine binding attachment .....	J. H. Clark	615,678	Dec. 13	849	196	85	1592
Sewing-machine bobbin-case retainer .....	W. A. Mack	608,552	Aug. 2	679	154	84	790
Sewing-machine bobbin or under-thread case .....	L. A. Miller	601,837	Apr. 5	405	85	83	76
Sewing machine. Bottle-cover .....	J. Douglas and V. Hansen	600,521	Mar. 15	1659	378 379	82	1575
Sewing-machine brake .....	J. R. Weaver	601,692	Apr. 5	122	24	83	26
Sewing machine. Button- .....	F. A. Wing	616,173	Dec. 20	1776	411 412 413 421 422	85	1790
Sewing machine. Buttonhole .....	C. A. Dahl	612,604	Oct. 18	1782	423 424 425	85	365
Sewing machine. Buttonhole .....	C. A. Dahl	612,605	Oct. 18	1796	425 426 496	85	368
Sewing machine. Buttonhole .....	J. C. Goodwin	606,204	June 28	2161	497 498	83	1817
Sewing machine. Buttonhole .....	J. Gutmann	615,165	Nov. 29	3517	808 809	85	1358
Sewing machine. Buttonhole .....	J. T. Hogan	596,593	Jan. 4	240	53, 54	82	48
Sewing machine. Buttonhole .....	I. Holden	614,106	Nov. 15	1540	353 354	85	954
Sewing-machine cabinet .....	T. Kraemer	600,538	Mar. 15	1696	388	82	1582
Sewing-machine cabinet .....	T. Kundtz	607,860	July 26	2484	527	84	534
Sewing machine. Carpet- .....	W. R. Wheaton and P. R. Wagor	615,936	Dec. 13	1304	304	85	1678
Sewing-machine carpet and matting clamp .....	E. B. Allen	598,332	Feb. 1	457	109	82	688
Sewing-machine carpet-binding apparatus .....	E. B. Allen	600,502	Mar. 15	1629	372	82	1569
Sewing-machine carpet-binding apparatus .....	E. B. Allen	600,503	Mar. 15	1630	372	82	1569
Sewing-machine cloth-clamp .....	J. T. Hogan	608,045	July 26	2823	601	84	602
Sewing-machine emery-wheel attachment .....	A. C. Pickett	612,271	Oct. 11	1207	289	85	244
Sewing-machine feeding device .....	W. G. Hewins	600,075	Mar. 1	816	188	82	1374
Sewing-machine feeding device .....	F. Malsch	614,271	Nov. 15	1856	429	85	1013
Sewing-machine feeding device .....	E. B. Nylander	600,740	Mar. 15	2034	464 465	82	1646
Sewing-machine feeding mechanism .....	G. H. Dimond and W. F. Dial	604,005	May 10	1421	318	83	897
Sewing-machine feeding mechanism .....	W. J. Stewart	596,920	Jan. 4	806	190	82	158
Sewing-machine feeding mechanism .....	J. Tripp	612,881	Oct. 25	2321	552	85	487
Sewing-machine feller .....	S. Laskey	613,285	Nov. 1	114	26, 27	85	638
Sewing machine. Filled-sack- .....	A. T. Timewell	607,810	July 19	2362	500 501	84	494
Sewing machine. Filled-sack- .....	A. T. Timewell	607,811	July 19	2365	501	84	495
Sewing-machine folder attachment .....	A. Laubscher	614,398	Nov. 15	2091	482	85	1057
Sewing-machine folder attachment .....	S. H. Wheeler	614,313	Nov. 15	1919	443	85	1025
Sewing-machine folding attachment .....	F. W. Beals	614,824	Nov. 29	2855	657	85	1230
Sewing-machine folding attachment .....	F. W. Beals	614,825	Nov. 29	2857	657	85	1230
Sewing-machine folding-guide .....	L. Muther	605,324	June 7	504	112	83	1448
Sewing-machine for barring and tacking .....	L. C. and F. A. Wing	601,390	Mar. 29	3154	712 713 714	82	1899
Sewing-machine for hemstitching .....	G. H. Dimond	605,700	June 14	1178	271	83	1597
Sewing-machine gage .....	H. S. Shaft	615,463	Dec. 6	461	108	85	15.1
Sewing-machine guide .....	A. D. Fenwick	599,444	Feb. 22	2403	564	82	1116
Sewing-machine guide. Shoe- .....	A. Eppler, Jr.	608,373	Aug. 2	363	79, 80	84	728
Sewing-machine guiding device .....	R. G. Woodward	598,353	Feb. 1	485	117	82	693
Sewing-machine. Hemstitch or open-work .....	G. H. Dimond and W. F. Dial	608,152	July 26	2987	641	84	635
Sewing-machine loop-retainer .....	F. J. Freese	614,457	Nov. 22	2204	506	85	1093
Sewing-machine-looper-actuating mechanism .....	F. H. Richards	602,105	Apr. 12	892	194	83	180
Sewing-machine looper mechanism .....	F. H. Richards	607,080	July 12	837	182 183	84	181
Sewing-machine motor .....	W. Naab and R. E. Grant	611,928	Oct. 4	580	140	85	114
Sewing-machine. Multiple .....	P. A. Kühn and P. F. Kluge	609,887	Aug. 30	3173	742 743	84	1332
Sewing-machine needle-guard .....	O. Bellefeuille	603,100	Apr. 26	2620	595	83	541
Sewing-machine needle-holder .....	F. B. Hopewell	599,561	Feb. 22	2615	613	82	1157
Sewing-machine. Overseam .....	F. Malsch	602,993	Apr. 26	2435	555	83	507
Sewing-machine presser-clamp. Buttonhole- .....	J. Laird	606,423	June 28	2600	599	83	1904
Sewing-machine presser-foot .....	H. P. Richards	601,280	Mar. 29	2969	671	82	1865
Sewing-machine presser-foot .....	H. P. Richards	601,402	Mar. 29	3177	717	82	1904
Sewing-machine presser-foot .....	G. W. Stevenson	601,861	Apr. 5	472	95	83	88
Sewing-machine presser-foot and throat-plate .....	C. McNeil	605,449	June 7	736	167	83	1494
Sewing-machine purling device. Overedge- .....	J. G. Greene	598,339	Feb. 1	467	111 112	82	690
Sewing-machine quilting-frame .....	W. Huff and R. P. McKinley	599,388	Feb. 22	2286	540	82	1093
Sewing-machine ripping attachment .....	M. Talen and G. H. Croft	603,931	May 10	1252	285	83	859
Sewing machine. Sack- .....	N. F. Becker	608,639	Aug. 9	851	195 196	84	842
Sewing-machine seam-trimming mechanism .....	A. Finn and J. M. Harrison	616,306	Dec. 20	2028	472	85	1841
Sewing-machine separator. Buttonhole- .....	F. W. Ostrom	608,370	Aug. 2	358	78, 79	84	727
Sewing machine. Shoe- .....	E. E. Bean	612,150	Oct. 11	985	239 240 241	85	203
Sewing machine. Shoe- .....	O. Bellefeuille	599,761	Mar. 1	155	37, 38	82	1245



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Sewing machine. Shoe-----	E. Duplessis-----	614,802	Nov. 22	2814	646 647 648 649 709	85	1207
Sewing machine. Shoe-----	E. Duplessis-----	614,988	Nov. 29	3088	710 711	85	1275
Sewing machine. Shoe-----	J. B. Hadaway-----	616,314	Dec. 20	2038	474 475	85	1843
Sewing machine. Shoe-----	E. P. Richardson-----	599,253	Feb. 15	2004	476	82	1016
Sewing-machine shuttle-----	M. F. Burroughs-----	606,443	June 28	2631	605	83	1911
Sewing-machine stitch-slacking device-----	R. G. Woodward and C. McNeil-----	597,663	Jan. 18	2073	486	82	438
Sewing-machine stop-motion-----	L. Schultz-----	602,876	Apr. 26	2223	503	83	467
Sewing-machine table-----	T. Kundtz and J. Gedeon-----	607,861	July 26	2485	527	84	534
Sewing-machine table-----	T. Kundtz and A. Eiben-----	607,862	July 26	2487	527	84	535
Sewing-machine take-up-----	W. F. Dial and G. H. Dimond-----	599,894	Mar. 1	421	93	82	1293
Sewing-machine tension-controlling device. Buttonhole-----	F. W. Ostrom-----	614,973	Nov. 29	3163	727	85	1291
Sewing-machine thread-controlling attachment-----	F. H. Richards-----	613,475	Nov. 1	486	109	85	707
Sewing-machine thread-controlling device-----	F. H. Richards-----	613,474	Nov. 1	483	109	85	707
Sewing-machine thread-controlling means-----	H. P. Richards-----	608,795	Aug. 9	1110	257	84	891
Sewing-machine thread-controlling mechanism-----	R. G. Woodward-----	615,647	Dec. 6	794	184 185	85	1569
Sewing-machine thread-cutter-----	V. Heiser and S. R. Moyer-----	606,010	June 21	1803	415	83	1730
Sewing-machine thread-trimming device-----	H. E. Hawes-----	603,688	May 10	812	179	83	775
Sewing-machine thread-waxing device-----	J. E. Bertrand-----	603,359	May 3	196	45	83	639
Sewing-machine thread-waxing device-----	J. E. Bertrand-----	607,332	July 12	1310	280	84	270
Sewing-machine thread-waxing device-----	J. B. Dohyne-----	613,126	Oct. 25	2702	639	85	564
Sewing-machine threader-----	L. J. Bowman-----	606,269	June 28	2306	534	83	1847
Sewing-machine trimmer-----	E. B. Allen-----	598,334	Feb. 1	459	109 110	82	689
Sewing-machine. Two-needle-----	J. Kerr-----	598,346	Feb. 1	475	113	82	691
Sewing-machine uncurling attachment-----	C. E. Bean-----	599,679	Mar. 1	4	1	82	1218
Sewing-machine work-holder attachment-----	J. M. Stephenson-----	601,386	Mar. 29	3148	711	82	1898
Sewing-machines, &c. Fan attachment for-----	T. J. Butler-----	615,802	Dec. 13	1065	250 251	85	1633
Sewing-machines into or out of gear. Means for throwing-----	G. S. Neeley-----	609,973	Aug. 30	3335	776 777	84	1363
Sewing-machines, &c. Spool-holder for-----	H. C. Fielding-----	608,035	July 26	2811	598	84	600
Sewing-machines. Yielding automatic cutter mechanism for-----	F. W. Ostrom-----	607,949	July 26	2636	560	84	563
Sewing materials, &c. Device for holding-----	F. Tashiro-----	607,897	July 26	2544	539	84	546
Sewing on buttons. Machine for-----	J. J. Sullivan-----	600,297	Mar. 8	1252	286	82	1478
Sewing with hem or open-work stitch. Machine for-----	G. H. Dimond and W. F. Dial-----	608,151	July 26	2985	640 641	84	634
Shackle-----	A. E. Line-----	614,014	Nov. 8	1382	317	85	902
Shackle or link. Coupling-----	O. Klatte-----	612,501	Oct. 18	1597	381	85	331
Shade-----	C. V. Wells-----	612,794	Oct. 18	2141	508	85	435
Shade adjuster. Window-----	F. L. Bailey-----	606,263	June 28	2299	532	83	1846
Shade and curtain hanger. Window-----	W. H. McFaddin and J. P. Lucas-----	614,742	Nov. 22	2716	618	85	1187
Shade and curtain-pole bracket-----	W. P. Corson-----	614,201	Nov. 15	1705	391	85	986
Shade and curtain-pole holder. Extension-----	F. T. Rice-----	613,605	Nov. 1	692	159	85	748
Shade-bracket holder. Window-----	P. N. Rademann-----	606,299	June 28	2355	545	83	1837
Shade bracket. Window-----	E. C. Switzer-----	608,236	Aug. 2	118	29	84	677
Shade carrier. Window-----	H. L. Keyes-----	603,403	May 3	273	61	83	652
Shade fixture and curtain-pole support. Window-----	G. Biehn-----	598,354	Feb. 1	486	117	82	694
Shade fixture. Roller-----	D. J. Bliss and E. J. Richmond-----	598,409	Feb. 1	595	146	82	716
Shade fixture. Window-----	P. C. Weeks-----	611,345	Sept. 27	2197	507	84	1917
Shade-holder-----	M. D. Greengard-----	601,829	Apr. 5	388	82	83	73
Shade-holding mechanism-----	H. H. Forsyth-----	615,442	Dec. 6	424	101	85	1494
Shade or curtain support. Adjustable-----	B. Dallin-----	614,844	Nov. 29	2892	665 666	85	1236
Shade-roller-----	E. F. Hartshorn-----	603,903	May 10	1206	273	83	851
Shade-roller-----	E. F. Hartshorn-----	613,800	Nov. 8	1037	236	85	834
Shade-roller fixture-----	E. C. Eyl-----	597,354	Jan. 11	1542	360	82	317
Shade-roller support-----	F. Pelan-----	610,411	Sept. 6	516	113	84	1538
Shade-support. Adjustable-----	J. N. Reinhard-----	602,104	Apr. 12	891	193	83	180
Shade supporter. Window-----	J. A. Hillman and H. M. Reed-----	603,059	Apr. 26	2536	576	83	526
Shade-trimmer-----	J. B. Hinthorn-----	606,548	June 28	2819	649	83	1948
Shade. Window-----	J. S. Judge-----	604,329	May 17	2027	454	83	1043
Shades, &c. Hanger for-----	A. A. R. Berger and F. Herrmann-----	611,886	Oct. 4	510	124	85	102
Shaft-adjusting device-----	L. E. Warner-----	603,353	May 3	187	43	83	638
Shaft and disk. Combined crank-----	A. L. Ide-----	601,965	Apr. 5	667	141	83	126
Shaft and sprocket-wheel connection. Crank-----	W. S. Gubelmann-----	601,415	Mar. 29	3200	722	82	1908
Shaft-collar. Adjustable-----	W. S. G. Baker-----	608,398	Aug. 2	414	90	84	738
Shaft connection-----	C. S. Murkland-----	597,506	Jan. 18	1823	422	82	388
Shaft-coupling-----	E. A. Blanton, Jr-----	601,232	Mar. 29	2858	653	82	1842
Shaft-coupling-----	F. H. Richards-----	614,502	Nov. 22	2288	524	85	1108
Shaft-coupling and cycle-hanger-----	I. J. Wilson-----	599,434	Feb. 22	2385	560	82	1113
Shaft device. Flexible-----	A. G. and E. W. Cannon-----	611,605	Oct. 4	21	5	85	7
Shaft. Flexible-----	A. Marotte-----	597,559	Jan. 18	1898	442	82	404
Shaft-hanger-----	F. Bebout and J. H. Brandon-----	606,327	June 28	2410	559	83	1868
Shaft-hanger-----	S. Coffin-----	601,885	Apr. 5	508	105	83	96
Shaft or pole coupling. Vehicle-----	O. C. Davis-----	607,222	July 12	1100	237	84	229
Shaft or thill coupling-iron-----	C. G. Thompson and C. D. Rush-----	615,645	Dec. 6	791	183	85	1569
Shaft or tongue coupling-----	K. Buland-----	613,557	Nov. 1	610	141	85	732
Shaft-protector-----	H. F. M. Podayn-----	600,375	Mar. 8	1373	314	82	1501
Shaft-straightening machine-----	L. H. Brightman-----	613,754	Nov. 8	955	219	85	819
Shaft. Vehicle-----	W. G. Davis-----	605,632	June 14	1057	243 244	83	1573
Shaft. Vehicle-----	R. S. Pickett-----	612,787	Oct. 18	2127	506	85	432
Shafts. Apparatus for making crank-----	C. F. Roper-----	604,267	May 17	1911	428	83	1021
Shafts in hubs or couplings. Device for locking-----	P. H. Rylander-----	597,329	Jan. 11	1500	350	82	309
Shafts. Means for detachably securing bosses or sleeves on-----	J. Ballot-----	612,302	Oct. 11	1261	304 305 306	85	254



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Shafts, tubes, &c. Machine for straightening	H. W. Hill	606,214	June 28	2183	502 503	83	1821
Shank-stiffener-cutting machine	W. F. O'Brien and D. S. Keith	614,972	Nov. 29	3159	726	85	1290
Shaping-cutter	J. Hatch	607,394	July 12	1417	303	84	291
Sharpener. Clipper	W. Baur and W. C. Reuss	614,822	Nov. 29	2853	657	85	1230
Sharpener. Combined scissors and knife	J. S. Shaffer	611,369	Sept. 27	2249	520	84	1927
Sharpener. Disk	L. P. Carr	610,226	Sept. 6	159	35	84	1473
Sharpener. Disk	A. Christopherson	603,172	Apr. 26	2733	622	83	565
Sharpener. Hoe	J. T. Foster and J. B. Miller	615,837	Dec. 13	1126	263	85	1646
Sharpener. Knife	G. J. Capewell	615,013	Nov. 29	3228	742	85	1303
Sharpener. Knife	W. A. Hill	611,686	Oct. 4	165	40	85	35
Sharpener. Knife	J. W. Maillot	602,192	Apr. 12	1057	231	83	213
Sharpener. Knife	F. R. Miller	602,994	Apr. 26	2437	556	83	507
Sharpener. Knife	R. E. Poindexter	612,912	Oct. 25	2365	563	85	495
Sharpener. Knife	J. R. Williams	602,790	Apr. 19	2069	470	83	422
Sharpener. Knife or scissors	R. E. Poindexter	609,046	Aug. 16	1644	392	84	1006
Sharpener. Knife, scissors, or skate	M. L. Hawks	605,289	June 7	447	99	83	1437
Sharpener. Lawn-mower	Z. T. Bush	612,820	Oct. 25	2195	522	85	465
Sharpener. Lawn-mower	C. W. Goodrich	601,510	Mar. 29	3359	761	82	1940
Sharpener. Lawn-mower-knife	A. G. Wilber	597,926	Jan. 25	2527	590	82	539
Sharpener. Razor	A. C. Mack	609,516	Aug. 23	2514	588	84	1190
Sharpener. Rock-drill	T. H. Bradbury	603,887	May 10	1178	266 267	83	846
Sharpener. Scissors	H. C. Lausen	604,118	May 17	1639	367	83	968
Sharpener. Scissors	W. C. Lynch	616,478	Dec. 27	2358	548	85	1927
Sharpener. Tool	A. N. Clark	606,000	June 21	1776	407	83	1726
Sharpening agricultural implements, &c. Machine for	J. A. Sumner	609,847	Aug. 30	3103	723	84	1318
Sharpening device	J. Buyer	609,078	Aug. 16	1695	404	84	1015
Sharpening device	L. K. Hollyman and R. W. Hoge	600,947	Mar. 22	2372	540	82	1723
Sharpening device. Disk	T. Knudtson	614,112	Nov. 15	1554	356	85	957
Sharpening device. Horseshoe-calk	J. L. Martin	600,734	Mar. 15	2022	460	82	1643
Sharpening device. Tool	J. W. Scull	609,301	Aug. 16	2130	505	84	1099
Sharpening edged tools. Device for	W. Purdy	609,367	Aug. 16	2234	528	84	1119
Sharpening lawn-mowers. Attachment for	A. B. Doty	606,333	June 28	2428	561	83	1871
Sharpening machine. Knife	M. Nielsen and T. S. Thomsen	598,806	Feb. 8	1250	302	82	857
Sheaf-carrier	W. W. Burson	596,848	Jan. 4	684	158	82	133
Shear-blade	G. A. Gugel	616,704	Dec. 27	2793	648	85	2007
Shears:							
See Animal-shears.	Metal-cutting shears.						
Barber's shears.	Paper-cutting shears.						
Doubling-shears.	Pruning-shears.						
Fruit-picking shears.	Sheep-shears.						
Gage-shears.	Wire-shears.						
Shears	A. Prohaska	602,360	Apr. 12	1331	296	83	268
Shears	W. T. Runyan	596,546	Jan. 4	149	34	82	31
Shears	A. Zinsgraf	613,873	Nov. 8	1162	266	85	858
Shears and buttonhole-cutter. Combination	C. Coates	606,123	June 21	2013	461	83	1770
Shears-beveler	W. H. Butler	598,977	Feb. 15	1555	369	82	931
Shears for use in vises	A. Schuermann	613,322	Nov. 1	180	40	85	651
Shears-gage	L. V. Moulton	599,659	Feb. 22	2813	654	82	1196
Shears. Gage attachment for	N. Powell	600,650	Mar. 15	1866	426	82	1613
Shears, &c. Mechanism for operating animal-	J. K. Stewart	604,869	May 31	3005	690	83	1267
Shears or scissors	E. Bailey	613,617	Nov. 1	708	165	85	751
Shearing and punching machine	J. E. Denham	606,194	June 28	2143	492	83	1814
Shearing implement	A. Howard	616,332	Dec. 20	2074	483	85	1849
Shearing-machine. Hydraulic	G. Guild	608,195	Aug. 2	53	13	84	665
Sheathing. Metallic	T. F. Hagerty	615,449	Dec. 6	433	102	85	1496
Sheep-dipping composition	R. Mackill	608,466	Aug. 2	529		84	761
Sheep-shears	H. Bland	614,078	Nov. 15	1488	341 342	85	945
Sheep-shears	H. B. Burke	604,821	May 31	2915	667	83	1249
Sheet-delivery mechanism	R. Miehle	610,491	Sept. 6	653	147 148	84	1564
Sheet-feeding machine	E. F. Goodman	601,562	Mar. 29	3437	781	82	1957
Sheet-metal tank	O. J. Ziegler	610,574	Sept. 13	803	183	84	1609
Sheet-metal can	E. Barrath	616,865	Dec. 27	3118	722	85	2074
Sheet-metal can	A. R. Waller	602,648	Apr. 19	1830	417	83	376
Sheet-metal-cutting device	L. Mayhew	614,252	Nov. 15	1826	422	85	1007
Sheet-metal-cutting machine	D. A. Ritchie	611,845	Oct. 4	442	106	85	89
Sheet-metal handle. Single-piece	J. W. Greene	602,234	Apr. 12	1120	246	83	225
Sheet metal. Machine for cutting ovals and irregular forms from	T. Gohlke	613,265	Nov. 1	69	16	85	630
Sheet-metal pipe	R. J. Northam	599,628	Feb. 22	2755	641	82	1185
Sheet-metal plates. Machine for shaping and planishing	F. G. Sevette	612,279	Oct. 11	1219	291	85	246
Sheet-metal straightening and cutting-off machine	F. B. Shuster	602,273	Apr. 12	1186	260 261	83	238
Sheet-metal vessel	F. Haberman and C. Regan	597,645	Jan. 18	2042	477	82	432
Sheet-metal-vessel handle	C. D. Hall and G. H. Lennon	600,689	Mar. 15	1949	444	82	1629
Sheet-metal-working machine	F. M. Leavitt	604,057	May 17	1522	342 343	83	945
Sheet-piling device	H. K. King	612,248	Oct. 11	1173	282	85	238
Sheet-separator	E. Larson	609,968	Aug. 30	3323	773 774	84	1361
Shelf and table. Combined	C. O. Hadly	602,321	Apr. 12	1271	281	83	256
Shelf block-case. Book-	A. E. Foutch	615,545	Dec. 6	621	141	85	1533
Shelf. Clock	M. V. Grush	600,528	Mar. 15	1673	382	82	1578
Shelf. Roller	E. E. Baker	615,127	Nov. 29	3452	792	85	1345
Shelf-support	J. H. Ostertag	598,742	Feb. 8	1158	278	82	839
Shelf-support	G. Stikeman	600,387	Mar. 8	1393	319	82	1505
Shelf. Window	E. H. Heverly	608,259	Aug. 2	155	38	84	685
Shelves and table. Convertible	E. B. Weston	603,715	May 10	854	190	83	783
Shelving	O. J. Hubbard	601,098	Mar. 22	2618	597	82	1770



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Shelving and cloth-measurer combined. Roller- .....	T. F. Apperson and C. H. Dorsey ..	610,510	Sept. 6	695	156 157	84	1572
Shelving. Library- .....	D. E. Hunter .....	597,186	Jan. 11	1268	297 298	82	263
Shelving, stack, &c. Library .....	D. E. Hunter .....	605,291	June 7	448	99 100	83	1437
Shell and fuse therefor. High-explosive .....	H. P. Hurst .....	608,125	July 26	2942	631	84	626
Shell. High-explosive .....	G. M. Hathaway .....	612,495	Oct. 18	1589	380	85	330
Shell. High-explosive .....	G. M. Hathaway .....	612,496	Oct. 18	1591	380	85	330
Shell-loading machine .....	W. L. Morris .....	612,864	Oct. 25	2285	545	85	480
Shell-roller. Self-lubricating .....	W. B. and M. Farrar and N. A. Clark ..	597,968	Jan. 25	2603	609	82	555
Shell. Vacuum-protected high-explosive .....	R. J. McKeone .....	602,092	Apr. 12	869	189	83	176
Sheller: .....							
See Corn-sheller.							
Shingle. Metallic .....	E. A. Demore .....	614,294	Nov. 15	1892	437	85	1019
Shingle-sawing machine .....	E. H. Kruger .....	606,422	June 28	2598	599	83	1904
Shingle-sawing machine .....	G. F. Steedman .....	603,928	May 10	1246	283 284	83	858
Shingle sizer and edger .....	L. Fox .....	615,693	Dec. 13	877	203	85	1598
Shingling-bracket .....	I. Hosier .....	606,144	June 21	2055	471	83	1778
Ship. Armor-clad .....	A. L. Norton .....	615,039	Nov. 29	3293	757	85	1315
Ship-building plant .....	W. I. Babcock, S. T. and C. H. Wellman, and J. W. Seaver.	606,497	June 28	2713	625	83	1927
Ship-calking instrument .....	W. P. Freeman .....	606,199	June 28	2152	494	83	1816
Ship fog-dispelling apparatus .....	H. N. H. Lugin .....	598,636	Feb. 8	978	236	82	806
Ship-frame-bending apparatus .....	M. H. C. and R. E. C. Shann .....	606,306	June 28	2371	548 549	83	1860
Ships. Apparatus for cleaning paint from .....	W. P. Freeman .....	607,794	July 19	2308	488	84	482
Ship's bandage .....	C. F. Sultemeyer .....	609,307	Aug. 16	2141	507	84	1101
Ship's gallery .....	F. Johnson .....	608,050	July 26	2830	603	84	604
Ships' holds. Apparatus for discharging coal into .....	T. Wrightson .....	612,297	Oct. 11	1254	302 303	85	253
Ship's log .....	J. L. Bliss .....	615,422	Dec. 6	389	93	85	1489
Ship's log and registering mechanism .....	W. H. McCurdy .....	610,077	Aug. 30	3510	814	84	1398
Ships. Means for closing shot-holes in war- .....	I. MacDonald .....	611,593	Sept. 27	2683	620	84	2007
Ships' plates. Apparatus for cleaning .....	W. P. Freeman .....	611,996	Oct. 4	705	170	85	138
Ship's roll. Means for indicating a .....	J. J. Hicks and G. H. Zeal .....	609,231	Aug. 16	1996	473 474	84	1072
Shipping-box .....	J. G. Fox .....	602,438	Apr. 19	1468	333	83	309
Shipping box or crate .....	E. E. Hamilton .....	604,388	May 24	2139	480	83	1085
Shipping box or package .....	E. Norton .....	602,469	Apr. 19	1525	347	83	320
Shipping-can .....	E. Norton .....	602,468	Apr. 19	1522	346 347	83	319
Shipping-can. Wood-veneer-jacketed .....	E. Norton .....	602,768	Apr. 19	2029	460	83	415
Shirred fabric .....	P. J. Dempsey .....	614,609	Nov. 22	2479	566	85	1141
Shirt .....	S. C. Chamberlin .....	607,734	July 19	2200	465	84	463
Shirt .....	S. Deutsch .....	616,698	Dec. 27	2781	646	85	2006
Shirt .....	G. D. Eighmie .....	597,215	Jan. 11	1318	307	82	271
Shirt .....	G. D. Eighmie .....	613,624	Nov. 1	721	168	85	754
Shirt .....	P. Schoen .....	606,898	July 5	475	102	84	94
Shirt .....	L. Tim .....	601,489	Mar. 29	3323	752	82	1932
Shirt. Bathing .....	I. M. Upperco .....	599,408	Feb. 22	2325	549	82	1101
Shirt-bosom. Detachable .....	J. W. Cooper .....	604,970	May 31	3161	727	83	1297
Shirt-bosom retainer .....	A. Me Yere .....	609,109	Aug. 16	1775	422	84	1028
Shocking device .....	E. R. Powell .....	610,637	Sept. 13	909	208	84	1632
Shoe .....	A. Belaire .....	613,953	Nov. 8	1289	298	85	883
Shoe .....	E. F. Blossom .....	601,234	Mar. 29	2867	654	82	1845
Shoe .....	O. I. Foster .....	609,505	Aug. 23	2499	585	84	1188
Shoe .....	F. B. Morse .....	611,266	Sept. 27	2053	473	84	1890
Shoe .....	H. Piessens .....	607,573	July 19	1926	399	84	410
Shoe .....	F. B. Snyder .....	612,064	Oct. 11	845	206	85	176
Shoe and welt therefor .....	W. J. Drey .....	600,771	Mar. 15	2081	477	82	1655
Shoe attachment .....	R. M. Hayward .....	611,860	Oct. 4	467	112	85	94
Shoe. Bicycle- .....	A. J. Cammeyer .....	599,491	Feb. 22	2494	586	82	1133
Shoe brake and head .....	W. H. Phelps .....	608,623	Aug. 9	811	188	84	834
Shoe-buffer .....	W. B. Keighley .....	604,051	May 17	1503	338	83	943
Shoe-button cleaner .....	J. H. Shelk .....	607,090	July 12	862	187	84	186
Shoe case. Sample- .....	G. F. Biggs .....	615,789	Dec. 13	1050	247	85	1630
Shoe-counter .....	J. Mitchell .....	600,316	Mar. 8	1280	292	82	1483
Shoe dip and polisher .....	N. D. Daboll .....	602,897	Apr. 26	2258	514	83	473
Shoe-drill .....	W. F. Hoyt .....	616,616	Dec. 27	2603	614	85	1971
Shoe-fastener .....	G. W. Burford .....	603,052	Apr. 26	2525	574	83	524
Shoe-fastener .....	J. F. Curry .....	600,714	Mar. 15	1989	453	82	1636
Shoe-fastener .....	J. Stech .....	602,147	Apr. 12	972	212	83	195
Shoe-fastening .....	H. Trinder .....	616,040	Dec. 13	1498	350	85	1718
Shoe-fitting chair. Adjustable .....	N. S. Springer .....	606,691	July 5	98	21	84	22
Shoe form or last. Pneumatic .....	J. J. Rutgers and B. F. Brinkman ..	601,306	Mar. 29	3024	680	82	1875
Shoe-form. Pneumatic .....	E. L. Smith .....	614,508	Nov. 22	2298	527	85	1109
Shoe-nailing machine .....	O. Ashton .....	602,390	Apr. 12	1384	309 310 311	83	279
Shoe-nailing machines. Shoe-holding jack for .....	L. A. Casgrain .....	611,991	Oct. 4	690	168	85	135
Shoe-plate .....	F. F. Long .....	614,616	Nov. 22	2488	568	85	1143
Shoe-polisher .....	G. W. Russell .....	612,438	Oct. 18	1496	360	85	312
Shoe-protecting plate .....	H. G. H. Glass .....	610,043	Aug. 30	3457	801	84	1387
Shoe-protector .....	J. O. Sharpless .....	601,529	Mar. 29	3391	769	82	1947
Shoe-rack .....	E. E. Canedy .....	604,875	May 31	3013	692	83	1268
Shoe. Rubber-soled leather .....	J. E. Kennedy .....	616,470	Dec. 27	2347	545	85	1925
Shoe-salesman's foot-rest .....	W. E. Cummings .....	615,058	Nov. 29	3331	765	85	1322
Shoe-scraper .....	F. Trumpler .....	598,451	Feb. 1	656	162	82	728
Shoe-shank stiffeners. Machine for cutting .....	G. E. M. Lewis .....	607,602	July 19	1980	411	84	420
Shoestring-holder .....	W. D. Hancock .....	604,917	May 31	3089	710	83	1283
Shoe-top holder .....	C. S. Pierce .....	615,894	Dec. 13	1212	284	85	1662
Shoe-treeing machine .....	A. D. Tyler, Jr. .....	609,130	Aug. 16	1804	430	84	1033
Shoe-upper .....	G. L. Motteler .....	613,821	Nov. 8	1073	244	85	841



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Shoe-upper lacing device .....	S. A. West .....	599,485	Feb. 22	2482	582	82	1130
Shoe-upper turning and beading machine .....	S. Ross .....	606,301	June 28	2357	545	83	1857
Shoe vamp-stay .....	J. Walden .....	608,734	Aug. 9	1016	233	84	874
Shoe. Ventilated .....	G. Bruck .....	611,830	Oct. 4	419	100	85	83
Shoes. Machine for setting or securing buttons to .....	G. J. Fanner .....	611,837	Oct. 4	429	102	85	85
Shoes. Machine for trimming spring-heel .....	J. G. Buzzell .....	612,307	Oct. 11	1271	307	85	256
Shoes, &c., wholly or in part of patent-leather. Manufacture of .....	L. J. Neu .....	607,623	July 19	2019	419	84	428
Shore-groin .....	E. Case .....	598,076	Feb. 1	13	3, 4	82	605
Shore-protector .....	T. B. Lovdal .....	601,663	Apr. 5	70	14	83	14
Shores or building jetties. Means for protecting .....	T. S. Wilkinson .....	600,467	Mar. 8	1540	354	82	1532
Shores. Protecting .....	S. W. Brooks .....	611,588	Sept. 27	2671	615	84	2005
Shoring .....	W. G. Jones .....	613,517	Nov. 1	550	124	85	720
Shoulder-brace .....	E. Thomson .....	597,127	Jan. 11	1181	277	82	246
Shoulder-pad .....	G. Goldman .....	615,842	Dec. 13	1132	264	85	1647
Shoulder-pad .....	G. Goldman .....	615,843	Dec. 13	1133	265	85	1647
Shoulder-stick .....	G. W. Greer .....	604,581	May 24	2505	570	83	1152
Shovel:							
See Cultivator-shovel. Steam-shovel.							
Snow-shovel.							
Shovel and sifter .....	L. D. McElroy .....	598,739	Feb. 8	1153	277	82	838
Shovel-forming die .....	W. D. Rowland .....	612,216	Oct. 11	1104	265	85	226
Shovel-handle .....	C. S. McIntire .....	599,514	Feb. 22	2528	594	82	1139
Shovel-handle. Sheet-metal .....	W. Shirray .....	601,987	Apr. 5	698	148	83	132
Shoveling-board .....	N. A. Cruzan .....	601,636	Apr. 5	22	5	83	6
Shoveling, dredging, and excavating machinery. Steam .....	O. T. Jones .....	600,583	Mar. 15	1768	403	82	1595
Show-case .....	F. C. Bate .....	603,312	May 3	115	27	83	624
Show-case .....	C. F. Biele .....	606,911	July 5	493	107	84	98
Show-case .....	C. F. Biele .....	615,788	Dec. 13	1048	246	85	1630
Show-case .....	H. H. Driggs .....	615,438	Dec. 6	413	99	85	1493
Show-case .....	L. Eberhardt .....	597,554	Jan. 18	1891	438	82	402
Show-case .....	S. H. Goldberg .....	612,096	Oct. 11	902	218	85	187
Show-case .....	E. Lee and J. S. Pickford .....	615,072	Nov. 29	3359	770	85	1327
Show-case .....	L. J. Scott and F. A. Cameron .....	615,915	Dec. 13	1254	293	85	1669
Show-case. Transferable .....	J. C. Spraggins .....	603,210	Apr. 26	2794	638	83	576
Show-stand .....	M. Rahn .....	603,203	Apr. 26	2785	635	83	574
Shower-bath .....	E. Jendis .....	615,486	Dec. 6	502	116	85	1509
Shredder .....	L. L. Lamb .....	601,712	Apr. 5	177	34	83	35
Shredding-knife .....	E. H. Ward .....	604,813	May 31	2904	664	83	1247
Shutter and awning. Combination window .....	M. Glück .....	607,232	July 12	1126	241	84	233
Shutter-controller .....	C. B. Harkness and W. T. Crowell .....	602,323	Apr. 12	1274	282	83	257
Shutter-fastener .....	A. Assman .....	600,602	Mar. 15	1796	411	82	1600
Shutter-fastener .....	J. Boothman .....	601,546	Mar. 29	3417	776	82	1953
Shutter-fastener .....	S. M. W. Kohl .....	602,661	Apr. 19	1863	423	83	383
Shutter-fastener .....	J. G. Lane .....	604,053	May 17	1507	339	83	943
Shutter-fastener .....	J. C. Steelman .....	600,047	Mar. 1	764	174	82	1363
Shutter-fastener guard .....	W. E. Braley .....	608,318	Aug. 2	266	60	84	708
Shutter fastener. Window .....	E. W. Goodell .....	600,718	Mar. 15	1998	455	82	1638
Shutter-operating device .....	W. Zehnder .....	611,165	Sept. 20	1845	425	84	1832
Shutter-operating system .....	J. Parkinson .....	615,194	Nov. 29	3567	821	85	1367
Shutter-worker .....	G. W. Bingham .....	599,053	Feb. 15	1680	397	82	957
Shutter-worker .....	T. H. Boyce .....	597,705	Jan. 25	2156	504	82	469
Shutter-worker .....	D. T. Care .....	597,708	Jan. 25	2160	505	82	470
Shutter-worker .....	R. N. Martz .....	609,448	Aug. 23	2384	561	84	1167
Shutter-worker .....	A. A. Morrett .....	600,439	Mar. 8	1482	338	82	1521
Shutter-worker .....	H. Suessenguth, Jr. .....	610,418	Sept. 6	525	114	84	1539
Shuttle-binder spring .....	A. A. Gordon .....	608,038	July 26	2814	599	84	600
Shuttle mispick and smash preventer .....	G. Fair .....	611,213	Sept. 20	1926	444	84	1846
Sidewalk-light construction .....	J. Magnusen .....	600,880	Mar. 22	2265	517	82	1703
Sieve cleaner. Shaking .....	J. E. Seay .....	606,742	July 5	187	41	84	38
Sieve for flour bolting or scalping machines .....	I. C. and M. C. Landes .....	612,522	Oct. 18	1628	389	85	337
Sieve for gyratory bolting and scalping machines .....	I. C. and M. C. Landes .....	612,521	Oct. 18	1627	388	85	337
Sieve or bolting-machine. Oscillating .....	C. H. Loutzenhiser .....	602,341	Apr. 12	1299	288	83	262
Sieve-scraper .....	W. Griscom .....	608,039	July 26	2815	599	84	600
Sieves. Oscillating support for shaking .....	F. H. Schule .....	605,924	June 21	1626	374	83	1700
Sifter and receiver. Combined ash .....	J. M. Ryan .....	611,150	Sept. 20	1821	419	84	1827
Sifter. Ash .....	S. Abercrombie .....	613,002	Oct. 25	2505	597	85	525
Sifter. Ash .....	J. Carter .....	614,534	Nov. 22	2331	534	85	1116
Sifter. Ash .....	J. H. and E. W. Countiss .....	603,893	May 10	1188	268	83	847
Sifter. Ash .....	J. Payette .....	603,704	May 10	837	185	83	780
Sifter. Ash .....	J. Smyth .....	598,962	Feb. 15	1527	363	82	926
Sifter. Ash .....	E. A. Tripp .....	596,924	Jan. 4	812	192	82	159
Sifter. Cabinet .....	W. H. Curtice .....	608,371	Aug. 2	361	79	84	727
Sifter. Dust-tight ash .....	A. McKay .....	610,635	Sept. 13	904	207	84	1631
Sifter. Portable coal .....	L. Buchtel .....	605,175	June 7	210	52	83	1390
Sifting apparatus. Flour .....	H. H. Hillman .....	596,507	Jan. 4	78	18	82	17
Sight-feed lubricator .....	C. C. Wakefield .....	611,666	Oct. 4	132	32	85	29
Sign .....	W. Goessling .....	606,923	July 5	512	112	84	101
Sign .....	W. Heeren .....	608,963	Aug. 9	1456	345	84	955
Sign .....	C. A. Jackson .....	612,500	Oct. 18	1596	381	85	331
Sign .....	T. Millen .....	608,616	Aug. 9	798	184	84	832
Sign .....	C. E. Starr, Jr. .....	603,092	Apr. 26	2608	592	83	539
Sign. Advertising .....	P. F. Downey .....	612,895	Oct. 25	2343	557	85	491
Sign. Advertising .....	E. H. Schild .....	616,022	Dec. 13	1461	342	85	1711
Sign. Advertising .....	R. W. Van Hohenhoff .....	596,835	Jan. 4	669	154	82	130
Sign and frame. Adjustable .....	A. C. Roebuck .....	596,831	Jan. 4	663	153	82	129
Sign-board. Light-reflecting .....	C. E. Manning .....	601,577	Mar. 29	3461	787	82	1961



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sign. Corner street- .....	G. G. Cockburn .....	602,427	Apr. 19	1449	328	83	305
Sign. Electrical .....	M. Norden .....	606,355	June 28	2470	574	83	1879
Sign. Figure- .....	C. T. Bradshaw .....	600,486	Mar. 8	1567	360	82	1536
Sign. Illuminated .....	C. C. Sibley .....	609,915	Aug. 30	3217	753	84	1341
Sign. Transom- .....	P. M. Kling .....	614,397	Nov. 15	2090	481	85	1057
Signal:							
See Bicycle speed-signal. Railway-signal.							
Boiler-signal. Railway-crossing signal.							
Car-signal. Railway grade-crossing							
Fog-signal. signal.							
Indicator-signal. Railway time-signal.							
Mailing-signal. Slide-signal.							
Pot signal. Telegraphic signal.							
Signal .....	J. P. Coleman .....	604,303	May 17	1974	442	83	1033
Signal .....	J. P. Coleman .....	604,304	May 17	1976	443	83	1034
Signal .....	F. Dutcher .....	610,672	Sept. 13	957	221	84	1642
Signal .....	J. G. Schreuder .....	606,429	June 28	2609	601	83	1906
Signal-alarm .....	F. Bossert .....	606,043	June 21	1863	429	83	1741
Signal and switch interlocking apparatus .....	E. P. Owen .....	601,757	Apr. 5	258	51	83	49
Signal apparatus .....	H. G. Leopold .....	611,638	Oct. 4	83	20, 21	85	19
Signal apparatus. Coin-actuated .....	H. R. Mason .....	597,362	Jan. 11	1560	364	82	320
Signal apparatus. Coin-actuated .....	H. R. Mason .....	612,782	Oct. 18	2119	504	85	430
Signal apparatus. Drop- .....	O. A. Danielson .....	601,222	Mar. 22	2838	649	82	1811
Signal system. Block- .....	W. L. Stockton .....	615,584	Dec. 6	681	157	85	1545
Signal system. Electric .....	L. C. Werner .....	603,369	May 3	210	48	83	642
Signal system. Electric .....	L. C. Werner .....	603,390	May 3	247	55, 56	83	648
Signals, &c. Track device for operating .....	H. Higgin .....	596,591	Jan. 4	235	52	82	47
Signaling .....	J. P. Coleman .....	611,894	Oct. 4	523	126	85	104
Signaling .....	J. P. Coleman .....	615,142	Nov. 29	3475	797	85	1349
Signaling apparatus .....	M. Martin .....	614,404	Nov. 15	2099	483	85	1059
Signaling apparatus .....	V. K. Spicer .....	600,384	Mar. 8	1387	317	82	1504
Signaling apparatus .....	V. K. Spicer .....	600,385	Mar. 8	1389	317	82	1504
Signaling apparatus. Block- .....	T. T. Fogel .....	613,567	Nov. 1	626	145	85	735
Signaling apparatus. Electric .....	W. E. Decrow .....	612,708	Oct. 18	1982	470	85	403
Signaling apparatus. Electric .....	W. E. Decrow .....	612,709	Oct. 18	1986	470	85	404
Signaling apparatus. Electric .....	F. B. Herzog .....	596,774	Jan. 4	566	130	82	109
Signaling apparatus for transmitting commands. Electrical .....	C. Arldt .....	608,246	Aug. 2	133	34	84	682
Signaling. Apparatus for visible .....	L. Sellner .....	599,742	Mar. 1	108	25	82	1237
Signaling at sea .....	F. V. de Bem .....	608,387	Aug. 2	391	86, 87	84	733
Signaling-codes. Indicating-chart for marine .....	F. V. de Bem .....	615,604	Dec. 6	714	164	85	1553
Signaling device .....	F. B. Taylor, E. E. Salisbury, and A. E. Dean .....	605,358	June 7	576	127	83	1462
Signaling device. Electric .....	E. A. Stout, Jr. .....	598,033	Jan. 25	2715	634	82	576
Signaling mechanism. Electric .....	L. G. Rowand. (Reissue) .....	11,678	July 12	1463	310	84	299
Signaling-shutter .....	F. G. W. J. Adams .....	597,134	Jan. 11	1189	279	82	248
Signaling system and apparatus. Electrical .....	W. F. Banks .....	604,712	May 31	2737	626	83	1215
Signaling system. Selector .....	T. C. Drake .....	605,688	June 14	1155	268	83	1593
Silicon. Obtaining free amorphous .....	G. de Chalmot .....	602,632	Apr. 19	1803		83	371
Silk-holder .....	G. S. Abraham .....	611,227	Sept. 27	1980	457	84	1877
Silver ores. Chloridizing .....	E. Heiligendörfer .....	597,238	Jan. 11	1352		82	278
Silverware case or chest .....	E. F. and E. A. Kolb .....	610,356	Sept. 6	412	88	84	1519
Singeing woven fabrics. Apparatus for .....	F. Binder .....	602,813	Apr. 19	2123	479	83	432
Singletree .....	H. C. Bratton .....	608,949	Aug. 9	1436	338	84	951
Singletree .....	G. H. Mansur .....	614,876	Nov. 29	2963	681	85	1250
Singletree-hook .....	G. B. Hart .....	609,022	Aug. 16	1593	379	84	996
Sink .....	J. Stretch .....	596,763	Jan. 4	549	126	82	106
Sink. Kitchen- .....	A. Schulze .....	597,529	Jan. 18	1853	430	82	394
Siphon .....	H. Foulois .....	608,960	Aug. 9	1451	344	84	954
Siphon delivery device for liquids .....	F. L. A. Riemann .....	616,731	Dec. 27	2845	659	85	2019
Siphon for beer, &c .....	A. Heinemann .....	615,169	Nov. 29	3527	811	85	1360
Siphon-head .....	J. S. Shortle .....	597,834	Jan. 25	2382	555	82	513
Siphon-head .....	E. Singer .....	602,200	Apr. 12	1069	234	83	215
Siphons. Fitting for aerated-water .....	R. O. Jones .....	609,392	Aug. 16	2284	540	84	1129
Size-stick .....	J. B. Sweetland .....	598,034	Jan. 25	2716	634	82	576
Sizing .....	F. Nonnenmacher .....	599,726	Mar. 1	85		82	1233
Sizing composition .....	C. A. Adde .....	606,951	July 5	547		84	109
Skate .....	E. H. Barney .....	608,416	Aug. 2	452	101	84	745
Skate .....	C. P. Beisel .....	609,401	Aug. 23	2304	544	84	1152
Skate .....	C. Dumke .....	600,908	Mar. 22	2306	526	82	1710
Skate .....	H. S. Evans .....	601,013	Mar. 22	2488	566	82	1744
Skate .....	A. D. Fisher .....	612,028	Oct. 11	779	192	85	163
Skate .....	P. Lowentraut .....	597,992	Jan. 25	2652	619	82	564
Skate .....	D. W. Matthiesen .....	600,436	Mar. 8	1478	337	82	1520
Skate .....	P. Rodier .....	597,744	Jan. 25	2214	516	82	481
Skate .....	J. R. Steele .....	603,435	May 3	333	74	83	663
Skate alarm. Roller- .....	J. A. Fougereau .....	616,458	Dec. 27	2318	540	85	1919
Skate-blade .....	I. Beetison .....	612,127	Oct. 11	953	230	85	196
Skate. Hockey-game .....	E. H. Barney .....	605,285	June 7	434	98	83	1434
Skate. Road- .....	J. Reinhard .....	616,802	Dec. 27	2959	690	85	2043
Skate. Roller- .....	T. E. Daniels .....	616,773	Dec. 27	2904		85	2031
Skate. Roller- .....	S. L. Kinsbruner .....	602,704	Apr. 19	1936	440	83	397
Skate. Roller- .....	S. L. Schwartz .....	597,025	Jan. 11	994	234	82	209
Skate. Roller- .....	F. J. Sulke .....	604,179	May 17	1757	395	83	992
Skate-sharpener .....	H. W. B. Gowdy .....	597,163	Jan. 11	1234	290	82	256
Skein-holder .....	M. A. Arrowsmith .....	607,674	July 19	2110	441	84	445
Skein holder. Silk- .....	J. W. Gleason .....	610,859	Sept. 13	1290	298	84	1710



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Skelp-iron. Machine for squaring or truing edges of.	C. P. Carlson	599,034	Feb. 15	1657	391	82	952
Skewers, pins, &c. Machine for making	G. A. Ensign	609,336	Aug. 16	2188	516 517	84	1110
Skins. Machine for depilating	G. De Keukelaere	607,654	July 19	2079	433 434	84	439
Skins. Machine for pulling or plucking rabbit-	J. and F. Taylor	606,255	June 28	2282	527 528	83	1842
Skirt.	H. Davis	601,434	Mar. 29	3233	729	82	1914
Skirt.	Z. G. Hara	609,023	Aug. 16	1594	379	84	996
Skirt.	B. E. Martin	608,469	Aug. 2	534	119	84	761
Skirt.	H. Silverman	599,919	Mar. 1	463	104	82	1301
Skirt.	J. M. Van Orden	596,557	Jan. 4	169	38	82	34
Skirt. Bicycle-	E. Cottrelly	610,032	Aug. 30	3438	796	84	1384
Skirt. Bicycle-	H. Stein	616,026	Dec. 13	1469	343 344	85	1712
Skirt. Cycling-	S. E. Francis	614,097	Nov. 15	1527	349	85	952
Skirt. Cycling-	E. M. Hoey	610,988	Sept. 20	1524	350	84	1770
Skirt-edge protector	W. J. Hay	612,417	Oct. 18	1461	353	85	305
Skirt-edge-protector. Dress-	A. M. Weber	610,780	Sept. 13	1151	264	84	1681
Skirt-elevator	C. Newberger	596,759	Jan. 4	544	125	82	104
Skirt-facing. Corded	L. Sutro	607,555	July 19	1897	392	84	405
Skirt-facings. Machine for making	A. C. Squires	597,074	Jan. 11	1084	256	82	227
Skirt-gores. Instrument for laying out	E. P. Follett	611,995	Oct. 4	703	169	85	138
Skirt-guard	C. E. Miller	600,010	Mar. 1	602	139	82	1327
Skirt-guard. Bicycle	R. A. Dennis	607,225	July 12	1105	298	84	230
Skirt-guide	M. A. Petgen	599,573	Feb. 22	2640	618	82	1161
Skirt hanger. Dress-	T. E. O'Neill	608,266	Aug. 2	166	40	84	687
Skirt-lifter	B. M. Fergus	604,310	May 17	1996	447	83	1038
Skirt-lifter	M. R. Lucas	603,567	May 3	592	132	83	716
Skirt-protector.	A. Allgoever	607,633	July 19	2040	423	84	432
Skirt-protector.	H. Evinghaus and M. Herbener	607,840	July 26	2437	517	84	525
Skirt-protector.	A. Mann and E. Schäfer	614,481	Nov. 22	2255	516	85	1102
Skirt-protector.	J. B. Poyet	606,876	July 5	447	96	84	88
Skirt-protector. Bicycle	A. Ross	597,298	Jan. 11	1440	338	82	296
Skirt-protector material	W. F. Wyman	604,818	May 31	2910	666	83	1248
Skirt-supporter	M. N. Anderson	605,465	June 14	757	174	83	1519
Skirt-supporter	M. Gair	603,760	May 10	928	206	83	797
Skirt-supporter	L. A. Graham	610,133	Aug. 30	3595	833	84	1417
Skirt-supporter	P. Knapp	598,320	Feb. 1	443	106	82	686
Skirt supporter. Dress-	N. B. Conkling and J. H. Lee	610,031	Aug. 30	3437	796	84	1383
Skirts, &c. Device for suspending or holding	B. M. Peach	598,573	Feb. 8	870	208	82	786
Skittle-table	W. Stephen	611,398	Sept. 27	2315	534	84	1998
Skiving-machine	M. Chase and M. H. Foster	600,768	Mar. 15	2075	476	82	1654
Skylight	E. J. Hulse	616,617	Dec. 27	2605	605	85	1971
Skylight-lifter	S. I. Howard	604,473	May 24	2308	524	83	1116
Slab. Artificial	A. De Man	607,223	July 12	1102	237	84	229
Slack-adjuster	F. W. Selley and W. H. Nisbet	610,095	Aug. 30	3534	819	84	1404
Slack-adjuster	A. G. Steinbrenner	607,895	July 26	2542	539	84	545
Slat-and-wire fabric. Machine for making	G. P. Fisher, Jr., and J. Reif, Jr.	609,387	Aug. 16	2268	535 536 537 538 539	84	1126
Slate	J. F. Yarnall	611,545	Sept. 27	2580	595	84	1989
Slate-frame cushion	G. M. Beyer	608,247	Aug. 2	140	37	84	682
Slaughter-houses. Apparatus for use in	P. F. Mahan	614,736	Nov. 22	2707	616	85	1185
Slaughtered animals. Conveying apparatus for	J. Levinson and B. Rosenberg	597,853	Jan. 25	2410	561	82	518
Sled	L. M. and A. G. Anderson	612,475	Oct. 18	1560	374	85	324
Sled	W. S. Evans	603,758	May 10	923	205	83	796
Sled	H. L. Ferris	613,505	Nov. 1	531	120	85	717
Sled	N. Halvarsen	612,385	Oct. 11	1400	338	85	280
Sled	L. Maurice	599,946	Mar. 1	507	114	82	1309
Sled attachment	J. D. Wilson	613,102	Oct. 25	2668	631	85	557
Sled. Bob-	N. T. Canfield	606,800	July 5	309	64	84	61
Sled. Bob-	W. G. Scott	613,889	Nov. 8	1188	271 272	85	863
Sled-brake	G. C. Hopkins and H. M. Sines	608,165	July 26	3013	648	84	639
Sled-brake	J. M. Kruzan	599,566	Feb. 22	2629	616	82	1159
Sled. Coasting-	W. F. Bickel	613,110	Oct. 25	2676	633	85	559
Sled. Foot-propelled	A. Ringborg	613,940	Nov. 8	1262	286	85	877
Sled-motor	J. G. Sarter	614,990	Nov. 29	3199	786	85	1298
Sled-propeller	A. Anderson	599,678	Mar. 1	2	1	82	1217
Sled-propeller	F. Berger	616,285	Dec. 20	1990	463	85	1833
Sled-propeller	C. H. O. Hamann	612,723	Oct. 18	2007	476	85	408
Sled-propeller	H. W. Libbey	600,851	Mar. 15	2214	505	82	1681
Sled-runner	J. A. Johnson	609,812	Aug. 30	3045	712	84	1306
Sleeping-bag	F. Jacob	598,995	Feb. 15	1584	376	82	938
Sleeping-bag	R. O. Stebbins	615,642	Dec. 6	788	182	85	1568
Sleeping-bag	S. Winters	613,545	Nov. 1	588	135	85	728
Sleeping-harness. Infant's	M. R. Thompson	613,334	Nov. 1	199	44	85	655
Sleeve-holder	O. S. Kepler	597,883	Jan. 25	2458	574	82	527
Sleigh	T. G. Mandt	605,676	June 14	1137	263 264	83	1589
Sleigh	A. C. Whittiker	599,991	Mar. 1	575	132	82	1322
Sleigh and boat. Combined	L. Weber	606,905	July 5	484	104 105	84	96
Sleigh and carriage. Combined	J. L. P. Houde	598,291	Feb. 1	398	94	82	677
Sleigh-knee	C. J. Shaw	609,470	Aug. 23	2430	569	84	1174
Sleigh roller attachment	J. C. Perkins	608,904	Aug. 9	1332	311	84	933
Sleigh-runner	J. L. Mason	613,699	Nov. 8	837	191 192	85	797
Sleigh-runner	C. Ott	610,082	Aug. 30	3518	815	84	1400
Sleigh-runner	C. H. Van Wagoner	616,215	Dec. 20	1853	428	85	1804
Slicer. Vegetable-	S. S. Dreisbach	599,323	Feb. 22	2153	511	82	1067
Slicer. Vegetable-	C. B. Lawson	608,368	Aug. 2	355	78	84	726
Slicing device. Vegetable-	P. E. Appgar	598,236	Feb. 1	289	65	82	657



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr &g	Vol.	Page.
Slide-carrier.....	W. Johnson .....	598,938	Feb. 15	1480	353	82	917
Slide-signal.....	G. Lewis .....	612,973	Oct. 25	2461	587	85	516
Sliding gate.....	R. A. and D. L. Jenkins .....	613,009	Oct. 25	2517	599	85	527
Sling-trip.....	E. Cancienne .....	607,679	July 19	2116	443	84	445
Slip-hook.....	J. Johnson .....	608,683	Aug. 9	928	213	84	858
Slippers, &c. Retaining device for storm-.....	F. J. Lyons .....	607,061	July 12	793	172	84	173
Slot-cutting machine.....	L. H. Colburn .....	599,054	Feb. 15	1681	398 399	82	958
Slotting-machine. Automatic.....	A. C. Campbell .....	611,604	Oct. 4	17	4, 5	85	5
Sluice-box and bridge.....	H. Hickmott.....	616,326	Dec. 20	2064	480 481	85	1848
Sluice-gates, &c. Mechanism for operating.....	R. S. Gillespie .....	611,472	Sept. 27	2451	564 565	84	1964
Slug-driving machine.....	J. A. Horton .....	601,255	Mar. 29	2903	661 662	82	1851
Smelters. Apparatus for catching waste products from lead-.....	J. B. Sergeant .....	597,660	Jan. 18	2070	485	82	437
Smelting complex ores. Method of and apparatus for.....	O. S. Garretson .....	596,747	Jan. 4	518	119	82	101
Smelting. Copper-.....	G. W. Reese .....	608,590	May 3	629	95	83	724
Smelting-furnace.....	H. Charlier .....	615,429	Dec. 6	399	265 266	85	1490
Smelting-furnace.....	J. Kennedy .....	598,709	Feb. 8	1107	339 340	82	829
Smelting-furnace.....	H. Lang .....	604,054	May 17	1508	417	83	943
Smelting-furnace.....	W. S. Reese .....	600,620	Mar. 15	1821	265	82	1604
Smelting-furnace.....	J. H. Ross .....	613,868	Nov. 8	1154	403 404	85	856
Smelting furnace. Metal-.....	E. Cronin .....	597,460	Jan. 18	1747	169	82	373
Smelting furnace. Ore-.....	H. Kaemmerling .....	610,540	Sept. 13	743	286	84	1598
Smelting-furnace. Reverberatory.....	H. L. Charles .....	608,837	Aug. 9	1227	222	84	911
Smelting furnace. Zinc-.....	E. C. Hegeler .....	612,104	Oct. 11	913	547	85	189
Smelting furnace. Zinc-.....	R. H. and W. Lanyon .....	616,475	Dec. 27	2355	221 222	85	1926
Smelting. Method of and apparatus for matte or pyritic.....	O. S. Garretson .....	596,991	Jan. 11	935	453	82	199
Smelting phosphorus.....	C. K. Harding .....	602,747	Apr. 19	1998	167 168	83	408
Smelting plant. Continuous.....	W. S. Reese and E. E. Armstrong .....	605,451	June 7	739	172 173	83	1495
Smelting plant. Continuous.....	W. S. Reese and E. E. Armstrong .....	605,464	June 7	754	372	83	1498
Smelting. Process of and apparatus for pyritic.....	G. M. Westman .....	607,497	July 19	1789	82	84	386
Smelting. Treating sulfid ores of lead, &c., preparatory to.....	T. Huntington and F. Heberlein .....	600,347	Mar. 8	1331	82	84	1494
Smoke-bell.....	T. C. O. Sherk .....	605,234	June 7	328	76	83	1413
Smoke-bleacher and soot-trap.....	E. F. Preston .....	615,743	Dec. 13	959	222	85	1614
Smoke-burning furnace.....	G. L. Fogler .....	607,166	July 12	1000	217	84	211
Smoke-condenser.....	J. C. Green .....	605,280	June 7	425	96	83	1433
Smoke-consumer.....	W. L. Denio .....	615,346	Dec. 6	231	55	85	1459
Smoke-consumer.....	J. McDonald and W. H. Klock .....	616,485	Dec. 27	2375	551	85	1930
Smoke-consumer.....	H. L. Thomas .....	604,240	May 17	1858	416	83	1010
Smoke-consumer.....	J. Shackleton .....	608,159	July 26	3004	646	84	637
Smoke-consuming apparatus.....	H. M. Quackenbush .....	609,628	Aug. 23	2742	638	84	1234
Smoke-consuming device.....	C. E. Briney .....	609,225	Aug. 16	1982	471	84	1069
Smoke-consuming furnace.....	S. O. Berg .....	608,435	Aug. 2	480	108	84	751
Smoke-consuming furnace.....	P. Cornelius .....	613,359	Nov. 1	254	57	85	666
Smoke-consuming furnace.....	S. C. Davidson .....	600,998	Mar. 22	2459	560	82	1739
Smoke-consuming furnace.....	W. Harris and F. A. Brandt.....	600,199	Mar. 8	1089	246	82	1447
Smoke-consuming furnace.....	J. Imhof and S. Spring .....	608,862	Aug. 9	1274	297	84	921
Smoke-consuming furnace.....	H. P. K. Peck .....	600,649	Mar. 15	1861	426	82	1613
Smoke-consuming furnace.....	G. W. Sanhuber .....	609,051	Aug. 16	1652	394	84	1008
Smoke-consuming furnace.....	L. A. Sears and F. Rice .....	602,962	Apr. 26	2386	544	83	498
Smoke-consuming furnace.....	J. Wezel .....	608,739	Aug. 9	1021	234	84	875
Smoke-generator.....	T. Thomson .....	606,315	June 28	2386	553	83	1863
Smoke-shade, smoke-bell, &c.....	T. Creighton.....	612,582	Oct. 18	1744	413	85	358
Smoke, soot, and spark destroyer.....	G. J. Terrell .....	600,048	Mar. 1	765	174	82	1363
Smoke-stack.....	C. Pickring. (Reissue) .....	11,686	Aug. 2	699	158	84	795
Smoking-pipe.....	J. Bigelow .....	610,597	Sept. 13	848	194	84	1619
Smoking-pipe.....	B. F. Smith .....	596,832	Jan. 4	664	153	82	129
Smoothing and pressing iron.....	J. Manning and J. R. S. Hayes .....	604,060	May 17	1528	343 344	83	947
Smoothing-iron.....	T. Hawkes .....	615,356	Dec. 6	250	58	85	1462
Smut-machine.....	F. Prinz .....	600,319	Mar. 8	1285	293	82	1484
Snap. Harness.....	B. McCann .....	600,441	Mar. 8	1486	339	82	1522
Snap-hook.....	H. W. Clough .....	612,194	Oct. 11	1062	255	85	217
Snap-hook.....	E. A. Cummings .....	615,345	Dec. 6	230	55	85	1458
Snap-hook.....	R. D. Dodge .....	615,685	Dec. 13	863	199	85	1594
Snap-hook.....	C. F. Francisco and E. E. Shaffer .....	607,844	July 26	2442	519	84	526
Snap-hook.....	G. M. Hubbard .....	615,556	Dec. 6	637	146	85	1536
Snap-hook.....	A. Ryan .....	603,288	May 3	75	19	83	616
Snap-hook.....	W. Zander .....	598,300	Feb. 1	411	97	82	680
Snap-hook. Hand.....	J. Nurnberger, Jr .....	603,238	Apr. 26	2850	650	83	586
Snap-hook. Harness.....	G. Rothar .....	616,145	Dec. 20	1722	399	85	1777
Snap-hook. Vehicle-pole.....	C. A. Nauman .....	613,822	Nov. 8	1074	244	85	841
Snap-switch. Automatic stop-motion.....	J. D. Ihlder .....	596,512	Jan. 4	90	20	82	19
Snow-guard.....	H. M. Esselen .....	602,901	Apr. 26	2269	517	83	475
Snow-guard.....	G. F. Folsom .....	602,983	Apr. 26	2420	551	83	504
Snow melting and removing apparatus.....	D. Boorman, A. P. Sharp, and J. O'Neil.....	614,198	Nov. 15	1699	390	85	984
Snow-melting apparatus.....	J. B. Greenig .....	610,180	Sept. 6	52	12	84	1451
Snow-plow.....	W. T. Cook .....	596,740	Jan. 4	508	116	82	98
Snow-plow.....	C. Duff .....	615,688	Dec. 13	867	199	85	1595
Snow-plow.....	W. R. Lloyd .....	601,895	Apr. 5	526	109	83	99
Snow-plow ice breaker and clearer.....	W. R. Billings and E. C. Collins .....	597,939	Jan. 25	2549	595	82	544
Snow-removing apparatus.....	D. Boorman, A. P. Sharp, and J. O'Neil.....	608,827	Aug. 9	1209	282	84	908
Snow-scraper.....	M. Mulder .....	615,036	Nov. 29	3289	756	85	1314



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Snow-shovel	J. Gifford	606,534	June 28	2795	645	83	1943
Snuff-package	W. S. Shaw	597,623	Jan. 18	2007	468	82	425
Soap, &c. Apparatus for molding	A. F. and A. G. Beyer	615,421	Dec. 6	387	92, 93	85	1488
Soap cake	L. S. Samuel	606,879	July 5	451	97	84	89
Soap-caking machine	C. Lipps	600,494	Mar. 8	1470	335 336 337	82	1519
Soap-crutching machine	F. B. and S. C. Strunz	604,671	May 24	2654	608	83	1181
Soap cup or holder	J. Schwechler	599,361	Feb. 22	2231	530	82	1081
Soap-holder	J. C. Baker	609,725	Aug. 23	2894	676	84	1263
Soap-holder	M. Peraglie and F. Barro	606,024	June 21	1830	422	83	1735
Soap-holder for tubs	E. H. Lobdell	601,662	Apr. 5	68	13	83	14
Soap-holding attachment	A. E. C. Gilmour	613,263	Nov. 1	65	16	85	629
Soap-making apparatus	F. Arledter	605,988	June 21	1759	403	83	1723
Soap-plotting machine	F. S. Rutschman	603,411	May 3	289	64	83	655
Soap-press	R. Savory	611,710	Oct. 4	207	49, 50	85	43
Soap-press	H. E. Swartz	604,436	May 24	2234	501	83	1103
Soap-receptacle	C. Schreiner	605,976	June 21	1734	399	83	1719
Soaring machine	W. P. Butusov	606,187	June 28	2126	488 489	83	1810
Socket-bolt	E. L. A. Cureau	602,178	Apr. 12	1028	225	83	207
Socket-bracket for drapery-poles, &c	J. C. Larkins	597,064	Jan. 11	1065	250	82	224
Socket-joint or coupling for rods, &c	J. Ephraim	605,541	June 14	870	204	83	1541
Sod-cutter, harrow, and seed-planter. Combined	J. Travis, Jr.	611,583	Sept. 27	2662	613	84	2003
Soda. Apparatus for making caustic	W. F. Jobbins	605,102	June 7	61	18	83	1364
Soda. Apparatus for making caustic	F. B. Strunz	604,670	May 24	2652	608	83	1181
Soda-fountain	R. M. Green	612,033	Oct. 11	789	195	85	165
Soda-fountain	J. B. Herron	613,678	Nov. 8	796	183	85	789
Soda-fountain cooler	H. J. Allen	598,551	Feb. 8	825	197	82	777
Soda-water apparatus	J. F. Haines	602,257	Apr. 12	1163	255 256	83	234
Soda-water apparatus	F. H. Lippincott	610,188	Sept. 6	67	14	84	1453
Soda-water fountain	E. B. Mower	603,856	May 10	1123	252 253	83	835
Sofa and cabinet. Combined	C. Vanden Wyngaard	607,905	July 26	2565	543	84	550
Soil heating and moistening apparatus	A. M. Stoltz	607,143	July 12	955	207	84	202
Solar apparatus	W. Calver	603,317	May 3	121	28 29 30	83	625
Solar heat. Apparatus for storing and using	H. F. Cottle	608,755	Aug. 9	1046	240	84	880
Solder	D. Crowther	607,504	July 19	1799	374	84	388
Solder. Aluminium	G. Hammond	598,341	Feb. 1	470	---	82	690
Solder-melting apparatus	A. T. Sturgess	610,502	Sept. 6	681	153	84	1570
Soldering aluminium	F. George	597,971	Jan. 25	2607	---	82	556
Soldering aluminium	F. A. Gooch	597,111	Jan. 11	1152	---	82	241
Soldering aluminium. Flux for	F. A. Gooch	597,112	Jan. 11	1153	---	82	241
Soldering aluminium. Flux for	G. Hammond	598,340	Feb. 1	469	---	82	690
Soldering-flux	W. Burnley	608,973	Aug. 9	1479	---	84	960
Soldering-iron	W. Mitchell	613,586	Nov. 1	658	152	85	741
Soldering-iron. Self-heating	W. Pullen	613,396	Nov. 1	335	76, 77	85	679
Soldering-machine	B. H. Short	602,368	Apr. 12	1345	300	83	271
Soldering machine. Can-	E. P. Holden	598,565	Feb. 8	849	203	82	782
Soldering machine. Can-	A. Johnson	601,514	Mar. 29	3366	763	82	1942
Soldering machine. Can-	E. Manula	611,330	Sept. 27	2170	502	84	1912
Soldering machine. Can-	G. Van Camp	611,462	Sept. 27	2431	558 559 560	84	1960
Soldering machine. Side-seam can-	A. Johnson	598,518	Feb. 8	772	185 186	82	766
Sole and heel vulcanizing apparatus. Shoe	G. F. Butterfield	596,476	Jan. 4	18	5	82	6
Sole-channeling and flap-turning machine	H. T. Crosby	602,980	Apr. 26	2417	550	83	503
Sole-channeling and flap-turning machine	H. T. Crosby	615,015	Nov. 29	3327	743	85	1304
Sole channeling and trimming machine	W. C. Meyer and Z. T. French	600,883	Mar. 22	2268	518	82	1703
Sole-channeling machine	F. J. Freese	607,990	July 26	2706	577 578	84	576
Sole channeling machine. Boot or shoe	H. T. Crosby	602,979	Apr. 26	2415	550 551	83	503
Sole-cutting machine	F. J. Freese	607,165	July 12	996	215 216 217	84	210
Sole-cutting machine	A. N. Miller	599,722	Mar. 1	77	18	82	1231
Sole cutting-out and channeling machine	R. Reid	603,968	May 10	1304	298 299 300	83	870
Sole-edge-trimming tool	C. G. Belmer	607,391	July 12	1414	302	84	290
Sole-inking machine	G. S. Hill and D. A. Hitchcock	613,446	Nov. 1	422	97	85	697
Sole-laying machine	G. A. Moore and H. J. Rosegrant	606,176	June 21	2108	484	83	1788
Sole-laying-machine forms. Mechanism for adjusting	E. E. Winkley	610,315	Sept. 6	334	72	84	1505
Sole-leveling machine	E. E. Winkley	610,314	Sept. 6	332	71	84	1505
Sole-leveling-machine attachment	C. S. Johnson and G. W. Spaulding	604,885	May 31	3027	695	83	1271
Sole-leveling machines. Roller-head for	W. E. Forster	615,215	Nov. 29	3642	837	85	1382
Sole-molding machine	J. J. Heys	607,370	July 12	1372	293	84	282
Sole-rough-rounding machine	H. T. Crosby	600,668	Mar. 15	1905	434	82	1621
Sole-rough-rounding machine	H. T. Crosby	607,736	July 19	2202	465 466	84	463
Sole-rounding machine	H. T. Crosby	602,211	Apr. 12	1085	238	83	218
Sole-rounding machine	E. Erickson	599,693	Mar. 1	29	7	82	1221
Sole. Shoe-	J. E. Kennedy. (Reissue)	11,694	Sept. 20	1968	454	84	1854
Soles, &c. Machine for cutting boot or shoe	C. S. Gooding and V. Beauregard	613,197	Oct. 25	2813	664 665	85	587
Soles of boots, shoes, &c. Machine for stamping	A. Adcock	604,106	May 17	1618	363 364	83	964
Soles or heels. Machine for uniting welts or rands to	L. A. Casgrain	611,405	Sept. 27	2328	537	84	1941
Soles to uppers. Machine for nailing	O. Ashton	602,184	Apr. 12	1038	227 228	83	209
Solitaire, button, &c	W. West	604,815	May 31	2906	665	83	1248



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sound-deadening wall for buildings	E. H. Kelly	612,733	Oct. 18	2023	480	85	411
Sound-locating instrument	L. E. Thorne	605,031	May 31	3269	751	83	1318
Sound recording and reproducing instrument	J. W. Jones	600,315	Mar. 8	1278	291 292	82	1483
Sound-reproducing device	H. J. Hagen	614,168	Nov. 15	1649	379	85	975
Sound-reproducing machine	J. W. Jones	604,829	May 31	2929	670	83	1252
Sound-reproducing machine	J. W. Jones	605,484	June 14	786	180 181	83	1524
Sound. Tube for transmission of	A. Wiggin	612,761	Oct. 18	2078	492	85	422
Sounding apparatus	E. S. Cornish	614,162	Nov. 15	1641	377	85	973
Sounding-board support	H. Ziegler	612,222	Oct. 11	1112	266	85	227
Sounding device for ships. Electric	J. P. Buckley	608,104	July 26	2912	623	84	620
Sounding-lead	S. H. Currie	598,725	Feb. 8	1133	273	82	834
Sounding-machine	C. W. Wood	608,741	Aug. 9	1023	235	84	875
Sower. Seed	J. A. Gleixner	602,683	Apr. 19	1897	432	83	389
Spanner or wrench. Adjustable	W. G. Harris	599,837	Mar. 1	309	69	82	1271
Spanner or wrench. Adjustable	J. C. H. Van Duijl	600,813	Mar. 15	2145	490	82	1667
Spar for vessels	T. Clapham	601,494	Mar. 29	3331	753	82	1934
Spark-arrester	J. R. Allen	606,637	July 5	1	1	84	3
Spark-arrester	W. P. Coburn	613,119	Oct. 25	2694	636	85	563
Spark-arrester	M. Goetze	606,134	June 21	2036	466	83	1774
Spark-arrester	A. A. Graham	607,927	July 26	2601	551	84	557
Spark-arrester	J. Shepherd	614,580	Nov. 22	2414	552	85	1131
Spark-arrester	T. Thorson	614,586	Nov. 22	2427	554	85	1133
Spark-arrester	J. W. Troutt	605,363	June 7	598	133	83	1465
Spark-arrester	A. C. Williams	609,066	Aug. 16	1679	399	84	1012
Spark-arrester	J. F. C. Witt	598,046	Jan. 25	2735	638	82	580
Spark-arrester	M. S. Woods	598,129	Feb. 1	96	22, 23	82	620
Spark-arrester for chimneys or flues	C. C. Carper	614,932	Nov. 29	3072	705	85	1272
Spark-catcher	P. Hagemann and H. Pasler	603,378	May 3	228	51	83	644
Spark-catcher	T. W. Paterson	601,355	Mar. 29	3097	699	82	1889
Spark-conductor	C. Sleister	606,770	July 5	262	55	84	53
Spark-extinguisher	M. Pschorr	605,131	June 7	108	28	83	1372
Speaking-tube	T. Fales	604,694	May 24	2704	618	83	1190
Speaking-tube switch	F. W. Wood	616,175	Dec. 20	1789	413	85	1793
Speaking-tubes and elevators. Reflector for combined	R. H. Peacock	599,010	Feb. 15	1605	381	82	941
Spectacle eye guard or shield	P. Nerney	604,238	May 17	1856	415	83	1010
Spectacle-frame	F. L. Burrows	606,272	June 28	2308	535	83	1848
Spectacle-frame temple	S. E. Hirst	610,875	Sept. 13	1322	303	84	1717
Spectacle or eyeglass attachment	G. Thomas	606,747	July 5	211	45	84	44
Spectacle or eyeglass case	J. Casey and M. S. Chism	602,825	Apr. 26	2151	488	83	453
Spectacle or eyeglass case	H. L. Leibe and J. Goerk	607,645	July 19	2059	429	84	436
Spectacle-saddle	E. B. Meyrowitz	600,496	Mar. 8	1613	368	82	1547
Spectacles	G. Bausch. (Reissue)	11,663	May 17	2085	467	83	1055
Spectacles	N. Cloutier	598,908	Feb. 15	1425	343	82	906
Spectacles	A. L. Greene	606,283	June 28	2327	539	83	1852
Spectacles	A. L. Greene	612,331	Oct. 11	1309	317	85	262
Spectacles	G. W. Mansfield	615,624	Dec. 6	754	174	85	1561
Spectacles or eyeglasses. Frameless	S. J. Clulee	604,138	May 17	1671	375	83	974
Speculum	K. Hohmann	605,715	June 14	1203	277	83	1602
Speed and distance indicator and reeorder for velocipedes, &c.	F. J. Wich	610,782	Sept. 13	1155	265 266	84	1681
Speed-changing device and indicator	P. J. Runser	598,817	Feb. 8	1266	307	82	860
Speed-governor	M. A. Replogle	605,014	May 31	3225	744	83	1312
Speed governor. Automatic high-	G. J. Loeper and P. B. Hausdörfer	616,678	Dec. 27	2742	637	85	1998
Speed-governor. Mechanical	M. A. Replogle	603,345	May 3	176	41	83	636
Speed-indicating alarm for bicycles, &c.	J. Clements	613,025	Oct. 25	2538	604	85	532
Speed-indicator	W. Milner and W. Wilson	611,265	Sept. 27	2051	472 473	84	1889
Speed-indicator	A. W. Smith	614,584	Nov. 22	2423	553	85	1132
Speed-indicator	J. Spitzmiller	613,731	Nov. 8	914	210	85	811
Speed-indicator	L. S. Starrett	601,800	Apr. 5	335	68	83	63
Speed-indicator and cyclometer. Combined	W. J. Edwards	597,272	Jan. 11	1402	328 329	82	288
Speed-measurer	D. L. Rose	606,767	July 5	256	54	84	52
Speed mechanism. Change-	V. Bélanger	605,845	June 21	1475	338	83	1670
Speed-transmitting device. Variable-	E. R. Plaisted	599,193	Feb. 15	1908	452	82	997
Speed-varying mechanism	M. O. Reeves	603,067	Apr. 26	2556	580 581	83	529
Speeder-machine	E. W. Houghton	615,555	Dec. 6	635	145	85	1535
Sphygmomanometer	L. E. Hill and H. L. Barnard	598,343	Feb. 1	472	112	82	691
Spice-box	E. Ackermann	597,077	Jan. 11	1096	260	82	230
Spiegel or similar metallic alloy. Producing	E. A. S. Clarke	604,728	May 31	2770	—	83	1222
Spike	T. A. Deakne	612,407	Oct. 18	1442	348	85	301
Spike	V. R. Paige	602,955	Apr. 26	2377	542	83	497
Spike-extractor	A. F. Jackson	602,048	Apr. 5	795	172	83	150
Spike-machine	L. Williams	600,052	Mar. 1	772	175 176 177 178	83	1365
Spike or nail extractor	J. Iverson and A. Reh	616,618	Dec. 27	2607	605	85	1971
Spike-puller	E. L. Dale	613,123	Oct. 25	2698	637 638	85	564
Spike-puller	S. E. Slaalien	616,207	Dec. 20	1837	424	85	1801
Spikes, bolts, &c. Device for drawing	V. R. Paige	597,294	Jan. 11	1434	336	82	294
Spindle: See Coated spindle. Spinning-machine spindle. Quilling-machine spindle. Vehicle-spindle.							
Spindle	F. Coirin	600,634	Mar. 15	1842	422	82	1609
Spindle	J. Duffy	602,254	Apr. 12	1155	253	83	232
Spindle	H. E. Hughes	600,786	Mar. 15	2101	481	82	1659
Spindle	W. D. Rosencrantz	614,896	Nov. 29	3000	688	85	1257
Spindle and bearing	G. O. Draper	609,757	Aug. 23	2942	688	84	1272
Spindle and bearing	G. O. Draper	609,758	Aug. 23	2943	688	84	1273



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Spindle and bearing	G. O. Draper	609,759	Aug. 23	2943	688	84	1273
Spindle and bearing	G. O. Draper	609,760	Aug. 23	2944	688	84	1273
Spindle and bearing	L. A. O. Nicol and E. Ayotte	608,992	Aug. 9	1517	358	84	967
Spindle and bearing	W. I. Stimpson	601,846	Apr. 5	444	90	83	83
Spindle and support	E. H. Ryon	616,020	Dec. 13	1458	341	85	1710
Spindle-bearing	G. O. Draper	605,703	June 14	1183	273	83	1598
Spindle-bearing	G. O. Draper	608,976	Aug. 9	1483	350	84	960
Spindle-bearing	W. M. Rushworth and T. Higgin-bottom.	602,110	Apr. 12	901	195	83	183
Spindle-bearing	E. H. Ryon	597,690	Jan. 18	2126	497	82	446
Spindle-support	E. H. Ryon	602,171	Apr. 12	1018	223	83	205
Spindles. Apparatus for applying cop-tubes to	E. Herzog	610,605	Sept. 13	857	196	84	1621
Spindles. Doffer-guard and stopper for lubricating-tubes for	J. W. Wattles	604,446	May 24	2247	504	83	1105
Spinning and doubling apparatus. Cotton	T. Ashworth	613,106	Oct. 25	2671	632	85	558
Spinning and doubling apparatus. Cotton	T. Ashworth	614,687	Nov. 22	2620	596	85	1167
Spinning and doubling frame. Ring	G. H. and W. Thomson	610,106	Aug. 30	3548	822	84	1407
Spinning and doubling machinery. Ring	J. Buckley	614,831	Nov. 29	2868	659	85	1232
Spinning and twisting machine spindle	J. E. Prest	604,194	May 17	1778	401	83	996
Spinning apparatus	R. Todd and J. A. Stott	614,145	Nov. 15	1615	370	85	968
Spinning-frame	W. E. Sharples	611,338	Sept. 27	2185	505	84	1915
Spinning-frame	J. P. Tolman and H. D. Martin	608,731	Aug. 9	1007	231	84	872
Spinning-machine	M. Campbell	614,834	Nov. 29	2872	661	85	1233
Spinning-machine heart-motion	G. W. Chadwick	602,303	Apr. 12	1242	273	83	250
Spinning-machine lubricating device	L. Shepard	597,331	Jan. 11	1503	350	82	309
Spinning-machine. Ring	M. E. Sullivan	599,539	Feb. 22	2570	602	82	1147
Spinning-machine ring and traveler	F. S. Culver	597,176	Jan. 11	1256	294	82	261
Spinning-machine roving-guide	I. H. Russell	600,236	Mar. 8	1147	261	82	1459
Spinning-machine spindle	T. A. Boyd	613,112	Oct. 25	2680	634	85	560
Spinning-machine spindle	E. H. Ryon	597,691	Jan. 18	2128	497	82	446
Spinning-machine spindle and spindle-support	L. W. Campbell	598,669	Feb. 8	1035	249	82	816
Spinning-machine stop-motion	F. Lacey	607,864	July 26	2491	528	84	535
Spinning-machine thread-guide support	E. Whittum	600,341	Mar. 8	1321	302	82	1491
Spinning-machine twist-indicator	J. T. Meats and T. W. Dean	610,552	Sept. 13	768	175	84	1602
Spinning-machine. Wool	W. W. New	605,203	June 7	271	63	83	1401
Spinning-machines. Adjustable roll-frame for	F. S. Culver	607,635	July 19	2041	423	84	433
Spinning-machinery traverse-bar-actuating mechanism.	J. H. Rawlins	614,576	Nov. 22	2409	550	85	1130
Spinning-mule	J. Venables	599,813	Mar. 1	261	58	82	1262
Spinning-mule driving mechanism	J. A. Aubry	597,234	Jan. 11	1345	314	82	277
Spinning-mule. Self-acting	W. Monk	611,816	Oct. 4	391	93	85	78
Spinning-mule yarn-guide	J. D. Whyte	604,593	May 24	2521	574	83	1155
Spinning or twisting machine	T. Emond and A. Labée	599,443	Feb. 22	2402	564	82	1116
Spinning-ring	J. C. Gilbert	598,200	Feb. 1	232	52	82	646
Spinning-rings. Apparatus for finishing	E. A. Darling	612,381	Oct. 11	1395	337	85	279
Spinning-rings. Method of and apparatus for truing	F. M. Marcy	606,675	July 5	75	16	84	17
Spinning-spindle	W. Hinchliffe	602,987	Apr. 26	2426	552	83	505
Spinning textile fibers. Apparatus for	R. Todd and J. A. Stott	603,068	Apr. 26	2558	581	83	530
Spirit. Purifying	L. Maiche	604,996	May 31	3203		83	1306
Spittoon	A. Rosenberg	604,218	May 17	1817	408	83	1003
Spittoon. Fountain	A. W. Browne	612,659	Oct. 18	1899	449	85	388
Spittoon. Fountain	T. N. Clark	604,692	May 24	2702	617	83	1189
Spittoon. Fountain	G. E. Johnson	597,359	Jan. 11	1550	362	82	318
Splint. Adjustable and reversible	J. Boyd	612,087	Oct. 11	885	214	85	183
Splint. Self-retaining	B. Scheinkman	602,917	Apr. 26	2303	525	83	482
Spoke-adjusting device. Bicycle	H. P. Roth	600,176	Mar. 8	1053	238	82	1440
Spoke and felly adjuster	J. N. Rachels	602,268	Apr. 12	1178	259	83	237
Spoke-brace	H. C. Reid	607,882	July 26	2519	534	84	540
Spoke-expander and wheel-tightener	J. Kelley	606,014	June 21	1809	417	83	1731
Spoke-grip	J. M. Crump	611,564	Sept. 27	2621	604	84	1996
Spoke-grip	W. F. Krahe	613,283	Nov. 1	109	26	85	637
Spoke heading and bending mechanism. Wire	J. Batey	599,436	Feb. 22	2389	561	82	1114
Spoke-making machine. Metal	W. G. Allen	605,050	May 31	3300	757	83	1324
Spoke. Metal	W. G. Allen	598,620	Feb. 8	945	227	82	800
Spoke-socket	W. O. Jones	603,853	May 10	1119	252	83	834
Spoke-socket	A. Weilheimer	616,169	Dec. 20	1770	410	85	1789
Spoke-socket. Vehicle-wheel	P. F. Tucker	599,271	Feb. 15	2033	482	82	1022
Spokes for wheels. Manufacture of wire	J. Batey	602,931	Apr. 26	2338	533	83	489
Spool	A. J. Cox and F. D. Link	599,035	Feb. 15	1658	391	82	953
Spool	S. Mather	604,540	May 24	2430	552	83	1137
Spool	L. N. Parks	597,017	Jan. 11	980	232	82	207
Spool	M. Tilden	611,343	Sept. 27	2193	507	84	1917
Spool-holder	L. R. Herrschaft	601,321	Mar. 29	3046	686	82	1879
Spool-stand	T. Mason	605,254	June 7	375	85	83	1422
Spooling-machine	J. Raistrick	608,713	Aug. 9	978	225	84	867
Spooling machine. Weft-thread	J. Schweiter	596,794	Jan. 4	596	138	82	114
Spooling or quilling machine. Thread	R. Atherton	610,162	Sept. 6	3	1,2	84	1443
Spoon-holder	J. T. Cassino	596,982	Jan. 11	924	218	82	196
Spoon. Medicine	B. F. Morningstar	608,890	Aug. 9	1311	306	84	928
Spout. Dumping	M. Ryder	610,690	Sept. 13	985	229	84	1648
Spout. Sap	A. Ring	599,633	Feb. 22	2769	643	82	1187
Spout. Sap	W. J. Sager	610,922	Sept. 20	1396	320	84	1746
Spouts. Adjusting means for delivery	W. C. Dentler	608,585	Aug. 9	746	171	84	823
Sprayer	F. M. Gropley and E. H. Peters	608,391	Aug. 2	399	88	84	734
Sprayer	L. Knetzger	613,905	Nov. 8	1208	276	85	867
Sprayer	F. W. Nettleton	614,744	Nov. 22	2719	620	85	1188
Sprayer	F. C. Schrader	613,321	Nov. 1	179	39	85	651
Sprayer	D. B. Smith	609,843	Aug. 30	3097	722	84	1317
Spraying apparatus	W. L. Denning	615,213	Nov. 29	3639	836	85	1382



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Spraying apparatus.....	G. A. and R. F. Dunn.....	609,183	Aug. 16	1893	450	84	1049
Spraying apparatus.....	T. E. Martin.....	598,945	Feb. 15	1496	356 357	82	920
Spraying device.....	I. F. Gordon.....	614,384	Nov. 15	2064	476	85	1053
Spraying device.....	G. A. Horn.....	604,151	May 17	1694	381	83	979
Spraying device.....	J. H. Pottenger.....	606,811	July 5	331	70	84	66
Spraying device.....	R. B. Williamson.....	612,081	Oct. 11	874	212	85	181
Spraying-machine.....	M. B. Brooks.....	597,948	Jan. 25	2576	601	82	549
Spreading and expanding device.....	B. J. Fisher.....	614,611	Nov. 22	2481	566	85	1141
Spring: See Bolster-spring.   Heel-spring. Carriage-spring.   Pneumatic spring. Chair-spring.   Vehicle-spring. Check-spring.   Wagon-spring. Door-spring.   Watchcase-spring.							
Spring.....	E. J. Hess.....	598,516	Feb. 8	763	184	82	765
Spring and spring-cushion.....	G. H. Ahlborn.....	598,493	Feb. 8	725	175	82	757
Spring-bottoms. Manufacture of.....	J. P. Leggett.....	611,131	Sept. 20	1787	410 411	84	1820
Spring-clasp.....	G. Hill.....	610,967	Sept. 20	1478	337	84	1762
Spring-coiling machine.....	F. W. and A. G. Hofer.....	598,094	Feb. 1	40	10, 11	82	611
Spring confining-band.....	C. Scott.....	598,394	Feb. 1	549	134	82	706
Spring-connecting device.....	W. B. Dutrow.....	609,577	Aug. 23	2623	613	84	1211
Spring-forming machine.....	C. Collins.....	603,175	Apr. 26	2739	623	83	566
Spring-gear.....	S. Q. Saunders.....	599,259	Feb. 15	2014	478	82	1018
Spring-hanger. Safety.....	H. Watkeys.....	597,868	Jan. 25	2437	567 568	82	523
Spring-lock.....	R. E. Adkins.....	600,701	Mar. 15	1966	448	82	1632
Spring-motor.....	G. H. Lewis.....	597,541	Jan. 18	1871	433	82	398
Spring-motor.....	L. H. Montross.....	598,529	Feb. 8	792	190	82	770
Spring-seat.....	C. A. Chapman.....	610,960	Sept. 20	1467	335	84	1759
Spring-seat.....	J. H. Cloyes.....	604,368	May 24	2114	474	83	1080
Spring-seat. Folding.....	F. G. Westland.....	602,788	Apr. 19	2066	469	83	422
Spring-setting machine.....	T. A. Lathrop.....	600,877	Mar. 22	2260	515 516	82	1702
Spring-shackle.....	H. C. Swan.....	613,480	Nov. 1	497	111	85	716
Spring-shackle. Vehicle.....	H. C. Swan.....	597,225	Jan. 11	1336	312	82	275
Spring-shackle. Vehicle.....	H. C. Swan.....	597,865	Jan. 25	2434	567	82	523
Spring-support.....	C. E. Hanson.....	599,076	Feb. 15	1716	407	82	964
Spring-support.....	W. B. Spencer.....	612,682	Oct. 18	1937	458	85	395
Spring-support.....	J. A. Staples.....	616,502	Dec. 27	2414	559	85	1937
Spring tie-rod. Wire.....	W. A. Comstock.....	600,358	Mar. 8	1350	309	82	1497
Spring-wheel.....	M. O'Brien.....	606,934	July 5	523	115	84	104
Sprinkler: See Agricultural sprin-   Fire-extinguishing sprin- kler.   kler. Automatic sprin-   Lawn-sprinkler. kler.   Street-sprinkler. Fire-sprinkler.							
Sprinkler.....	J. T. Higbee.....	598,601	Feb. 8	914	219	82	794
Sprinkler-head.....	W. F. Evans.....	600,065	Mar. 1	802	183	82	1371
Sprinkler-plugs. Protector for fusible.....	E. F. Steck.....	598,683	Feb. 8	1065	257	82	821
Sprinkling apparatus.....	T. Gaskins.....	597,576	Jan. 18	1930	449	82	410
Sprinkling apparatus.....	W. Y. Ober and C. W. Collyer.....	613,296	Nov. 1	130	30, 31	85	642
Sprinkling-vehicle.....	A. H. Howland.....	612,805	Oct. 18	2164	514	85	439
Sprinkling-vehicle.....	A. H. Howland.....	616,334	Dec. 20	2078	484	85	1850
Sprocket driving mechanism.....	I. Kling.....	601,570	Mar. 29	3448	783	82	1959
Sprocket-rim. Removable.....	R. R. Suter.....	601,990	Apr. 5	700	149	83	132
Sprocket-wheel.....	G. T. Buddle.....	613,756	Nov. 8	958	220	85	820
Sprocket-wheel.....	L. and E. W. Cooper.....	605,443	June 7	725	163	83	1493
Sprocket-wheel and chain.....	S. J. Kidd.....	599,612	Feb. 22	2714	635	82	1175
Sprocket-wheel for bicycles, &c. Expandible.....	J. M. Cleland.....	598,654	Feb. 8	1009	243	82	811
Sprout-puller and wagon-jack. Combined.....	D. E. Copp.....	603,054	Apr. 26	2527	574	83	524
Square and bevel. Combined.....	G. F. Warnock.....	607,101	July 12	882	190	84	189
Square and curve for cutting garments. Combined.....	E. M. and J. L. Richardson.....	616,493	Dec. 27	2395	555	85	1933
Square attachment.....	G. M. Elliott.....	599,168	Feb. 15	1872	443	82	991
Square. Bevel.....	D. H. Clymer.....	615,806	Dec. 13	1072	252	85	1635
Square. Folding.....	R. W. Jamison.....	612,520	Oct. 18	1626	388	85	337
Square. Framing.....	J. H. White.....	612,690	Oct. 18	1948	461	85	397
Square, plumb, and level. Combined.....	W. Moore.....	596,818	Jan. 4	640	147	82	124
Square. Tailor's.....	J. R. Van Dame.....	613,095	Oct. 25	2659	628	85	555
Stable.....	S. F. Lindstam.....	600,433	Mar. 8	1468	335	82	1519
Stable appliance.....	J. C. Burnes.....	599,763	Mar. 1	157	38, 39	82	1245
Stacker.....	F. W. Eltzroth.....	602,063	Apr. 12	821	178	83	167
Stacker.....	A. Erickson and A. Johnson.....	597,275	Jan. 11	1408	330	82	289
Stacker attachment. Pneumatic.....	J. B. McCutcheon.....	608,990	Aug. 9	1511	357	84	966
Stacker. Automatic straw.....	S. D. Felsing and E. G. Gustafson.....	613,260	Nov. 1	58	14, 15	85	628
Stacker blower. Straw.....	S. H. and D. Garst.....	598,885	Feb. 8	1381	332	82	883
Stacker fan. Pneumatic-straw.....	J. K. Sharpe, Jr.....	605,925	June 21	1628	374	83	1700
Stacker. Pneumatic.....	W. H. Cook.....	603,593	May 3	633	141	83	724
Stacker. Pneumatic.....	F. F. Landis.....	611,384	Sept. 27	2290	529	84	1933
Stacker. Pneumatic.....	M. T. Reeves, J. N. Kailor, and H. C. Clay.....	612,213	Oct. 11	1093	263	85	224
Stacker. Pneumatic.....	A. A. and H. A. Russell.....	601,356	Mar. 29	3097	699 700	82	1889
Stacker. Pneumatic.....	A. W. Sisson.....	608,306	Aug. 2	237	54	84	702
Stacker. Pneumatic.....	G. W. Wood.....	599,279	Feb. 15	2050	485	82	1025
Stacker. Pneumatic straw.....	J. B. McCutcheon.....	609,623	Aug. 23	2728	635	84	1231
Stacker. Pneumatic straw.....	J. W. Miller and E. Huber.....	610,659	Sept. 13	938	218	84	1638
Stacker. Pneumatic straw.....	A. E. Price.....	614,979	Nov. 29	3177	731	85	1294
Stacker. Pneumatic straw.....	W. J. Randolph.....	597,364	Jan. 11	1563	364 365	82	321
Stacker. Pneumatic straw.....	W. Seburn.....	596,914	Jan. 4	793	187 188	82	155
Stacker. Straw.....	W. W. Dingee.....	615,145	Nov. 29	3480	798 799	85	1350
Stacker. Straw.....	H. R. Gregory and R. H. Batton.....	606,165	June 21	2091	481	83	1783



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Stacker. Straw-----	W. A. Hinkle-----	603,040	Apr. 26	2507	569	83	520
Stacker. Straw-----	E. D. Jacobs-----	614,392	Nov. 15	2080	479	85	1056
Stacker. Straw-----	R. Moy-----	601,667	Apr. 5	75	15	83	17
Stacker. Swinging straw-----	E. Huber and J. W. Miller-----	606,059	June 21	1896	436	83	1747
Stackers. Automatic oscillating mechanism for-----	M. T. Reeves and J. N. Kailor-----	608,223	Aug. 2	98	25	84	674
Stage appliance-----	W. F. Carver-----	604,020	May 17	1453	325	83	933
Staging. Adjustable-----	J. A. Hagan-----	598,289	Feb. 1	395	93	82	676
Staging-bracket-----	A. H. Danforth-----	600,858	Mar. 22	2230	508	82	1697
Staging-horse-----	W. Porten-----	615,364	Dec. 6	263	61	85	1465
Stair-builder's gage-----	W. P. Roosa-----	597,915	Jan. 25	2510	587	82	536
Staircase for dwellings-----	H. E. Cassel-----	606,273	June 28	2310	535	83	1848
Stair-cover-----	P. Rasmussen-----	607,457	July 19	1541	327	84	330
Stair-rail-----	S. Hunter-----	606,147	June 21	2058	472	83	1778
Stair-rod-----	E. E. Kutz-----	610,544	Sept. 13	752	171	84	1599
Stairs. Adjustable tread-support for-----	C. B. Emery-----	597,966	Jan. 25	2601	608	82	555
Stairs, &c. Tread for-----	C. W. Locke-----	605,732	June 14	1222	283	83	1605
Stairway. Moving-----	J. M. Dodge-----	598,772	Feb. 8	1202	290	82	847
Stairway nosing-strip-----	F. Furness-----	606,532	June 28	2792	644	83	1943
Stairway system for flats. Dual-----	K. S. Evans-----	610,174	Sept. 6	39	9, 10	84	1449
Stalk-chopper-----	A. L. Fairey-----	616,093	Dec. 20	1613	377	85	1758
Stalk-chopper-----	F. Upshaw-----	607,971	July 26	2669	570	84	569
Stalk-cutter-----	W. F. Acre and W. P. Wafford-----	597,160	Jan. 11	1230	289	82	255
Stalk-cutter-----	J. R. Weatherly-----	610,114	Aug. 30	3557	825	84	1408
Stamp-affixer-----	F. Quednow-----	606,791	July 5	297	61, 62	84	59
Stamp-affixing machine-----	R. W. J. Kraus-----	615,394	Dec. 6	336	79, 80	85	1478
Stamp-attacher-----	G. W. Hey-----	600,531	Mar. 15	1677	382	82	1578
Stamp battery. Ore-----	J. Champion-----	610,599	Sept. 13	851	195	84	1620
Stamp. Combined adjustable postmarking and canceling-----	W. S. Reed-----	613,824	Nov. 8	1076	244	85	841
Stamp detacher and affixer. Postage-----	J. A. Chambliss-----	598,263	Feb. 1	339	78	82	666
Stamp for crushing ores, &c-----	D. Embleton-----	611,615	Oct. 4	38	9	85	10
Stamp. Hand-----	S. F. Haskins-----	598,088	Feb. 1	30	8	82	609
Stamp. Hand-----	C. Lee-----	613,161	Oct. 25	2753	648	85	574
Stamp. Hand-----	E. L. Murray-----	611,926	Oct. 4	576	139	85	113
Stamp. Hand-----	H. O. Reich and C. I. Van Dyke-----	602,957	Apr. 26	2379	542	83	497
Stamp. Hand-----	G. A. Rentschler-----	613,721	Nov. 8	885	204	85	805
Stamp-handle-----	E. E. Spencer-----	616,500	Dec. 27	2410	558	85	1936
Stamp-holder-----	F. G. Farnham-----	596,656	Jan. 4	352	77	82	70
Stamp holder and stamper. Postage-----	J. P. Harrison-----	601,416	Mar. 29	3201	722	82	1908
Stamp-mill-----	L. Yauslin-----	601,030	Mar. 22	2513	571	82	1749
Stamp-mill-----	T. W. Capen-----	609,408	Aug. 23	2314	546	84	1153
Stamp-mill-----	A. G. Mather and F. T. Snyder-----	614,483	Nov. 22	2261	517	85	1108
Stamp-mill-----	E. Reynolds-----	604,502	May 24	2362	536	83	1125
Stamp-mill-----	G. Wood-----	609,863	Aug. 30	3121	729	84	1322
Stamp-mill feeder-----	G. Wood-----	605,266	June 7	403	91	83	1428
Stamp-mill feeder. Automatic-----	P. W. Gates-----	609,425	Aug. 23	2346	553	84	1160
Stamp-money and letter packet-----	C. A. Thompson-----	603,118	Apr. 26	2649	602	83	548
Stamp. Ore-----	D. M. Smyth-----	605,615	June 14	1017	234	83	1567
Stamp. Ore-----	D. M. and J. E. Smyth-----	615,369	Dec. 6	278	64	85	1467
Stamp-pad-----	W. A. Echelberger-----	602,061	Apr. 12	814	176	83	166
Stamp. Post-office hand-----	E. J. Brooks-----	596,932	Jan. 4	824	196	82	161
Stamp. Printing-----	L. R. Blackmore-----	605,945	June 21	1671	383	83	1708
Stamp. Steam ore-----	D. Cole-----	608,422	Aug. 2	460	103	84	747
Stamp. Steam ore-----	D. Cole-----	608,423	Aug. 2	463	103	84	748
Stamp-tappet-----	C. A. McClair-----	599,400	Feb. 22	2313	546	82	1098
Stamp. Time-----	J. G. Blessing-----	602,026	Apr. 5	757	163	83	143
Stamp. Time-----	L. Blumenthal-----	612,697	Oct. 18	1956	463	85	399
Stamps, &c. Coin-freed apparatus for delivering-----	E. J. P. Gallwey-----	601,852	Apr. 5	455	92	83	85
Stamps, sealing letters, &c. Device for attaching-----	W. F. Johnston-----	602,806	Apr. 19	2109	476	83	429
Stamps to mail-matter. Machine for applying postage-----	G. I. Abendroth and G. Sickels-----	597,093	Jan. 11	1126	266	82	235
Stamping and crushing mill. Ore-----	E. F. Parker-----	602,356	Apr. 12	1326	294	83	267
Stamping or punching press-----	W. R. Jenkins-----	612,001	Oct. 4	713	171	85	140
Stanchion. Cattle-----	D. E. Darnell-----	616,454	Dec. 27	2308	538	85	1917
Stanchion. Cattle-----	G. L. Nichols-----	605,005	May 31	3221	741	83	1309
Stanchion. Cattle-----	H. Taylor-----	608,730	Aug. 9	1005	230	84	872
Stand:-----							
See Bicycle-stand.-----	Mirror-stand.-----						
Boiler-stand.-----	Music-stand.-----						
Camera-stand.-----	Reading-stand.-----						
Collapsible stand.-----	Reading, writing, and-----						
Display-stand.-----	music stand.-----						
Displaying-stand.-----	Show-stand.-----						
Flower-stand.-----	Toilet and wash stand.-----						
Flower or other-----	Tripod-stand.-----						
stand.-----	Washstand.-----						
Stand-----	W. G. Koelle-----	611,754	Oct. 4	281	67	85	57
Stand-boiler. Self-cleaning-----	F. Walker-----	610,312	Sept. 6	328	70	84	1504
Stand for holding and displaying lesson picture-rolls, song-charts, maps, &c-----	M. A. Lainé-----	615,068	Nov. 29	3352	769	85	1326
Stand or chair base-----	J. W. Coultas-----	603,677	May 10	796	175	83	772
Standard-----	C. J. Shaw-----	604,796	May 31	2879	658	83	1243
Standard. Extension-----	J. C. Miller-----	613,457	Nov. 1	439	100	85	700
Staple-----	A. Leigh-----	609,032	Aug. 16	1608	383	84	998
Staple driving and clenching machine-----	V. Zwissler-----	603,438	May 3	338	75	83	665
Staple-driving machine-----	E. H. Michener-----	608,699	Aug. 9	952	219	84	863



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Staple-extractor	C. G. Mitchell	602,911	Apr. 26	2293	522	83	480
Staple making and driving machine	P. A. Coupal	610,320	Sept. 6	345	74	84	1508
Staple-puller	W. W. Krutsch	600,082	Mar. 1	827	191	82	1376
Stapling-machine	G. W. Ansley	610,116	Aug. 30	3561	825	84	1409
Stapling-machine	F. S. Bradley	602,121	Apr. 12	918	200 201	83	186
Stapling-machine	L. S. Burridge	600,510	Mar. 15	1639	374 527	82	1571
Stapling-machine	E. R. Johnson	597,773	Jan. 25	2262	528 529 530	82	490
Stapling-machine	A. G. Mackay and M. J. Broder	613,210	Oct. 25	2861	674	85	595
Starch-draining apparatus	J. Hundhausen	603,447	May 3	352	79	83	667
Starching-machine	S. Moe, E. W. Buell, G. C. Roberts, and A. Conkling.	611,015	Sept. 20	1567	361	84	1778
Starching-machine	A. T. Hagen and D. M. Cooper	606,411	June 28	2568	594 595	83	1897
Starching-machine	D. H. Newton	599,132	Feb. 15	1807	430 431	82	980
Starching-machine	J. Rickey	613,424	Nov. 1	392	90	85	691
Starching-machine	A. R. Selden	605,751	June 14	1252	289 290	83	1611
Starting device	J. P. Stone and S. E. Doane	603,778	May 10	962	215	83	803
Starting-gate	P. A. Finigan	601,014	Mar. 22	2489	566	82	1744
Station-indicator	J. D. Barry	616,393	Dec. 20	2188	511	85	1872
Station-indicator	L. B. Caldwell	599,829	Mar. 1	294	66	82	1268
Station-indicator	J. E. Carter	613,967	Nov. 8	1304	297	85	886
Station-indicator	E. H. B. Chew	606,331	June 28	2424	561	83	1870
Station-indicator	E. C. Crossman	610,844	Sept. 13	1260	291	84	1704
Station-indicator	L. J. Hunter and W. F. Peters	610,271	Sept. 6	230	52	84	1487
Station-indicator	D. C. and J. M. Jones	598,099	Feb. 1	52	12, 13	82	612
Station-indicator	O. Ledowsky	605,318	June 7	496	110 111	83	1447
Station-indicator	G. Rischmuller	607,135	July 12	939	204	84	200
Station-indicator	A. H. Rogers	610,415	Sept. 6	522	114	84	1539
Station-indicator	M. Savage	609,052	Aug. 16	1654	394	84	1008
Station-indicator	W. C. Schaper	613,320	Nov. 1	177	39	85	650
Station-indicator	H. C. Turner	605,938	June 21	1653	379	83	1705
Station-indicator	H. C. Turner	607,098	July 12	876	189	84	188
Station-indicator	W. A. Turner	604,483	May 24	2328	528	83	1119
Station-indicator	W. A. Turner	607,200	July 12	1054	228 229	84	220
Station-indicator	M. Van Look	596,521	Jan. 4	108	24	82	22
Station-indicator actuating mechanism	D. W. Porteous	607,550	July 19	1888	391	84	404
Station-indicator and advertising device	G. W. Reynolds, H. C. and W. A. Turner.	611,940	Oct. 4	600	146	85	118
Station. Portable automatic way-	T. H. Pollock	611,145	Sept. 20	1810	417	84	1825
Stationary boiler	D. W. McCallum	596,785	Jan. 4	586	136	82	112
Stave-jointer	J. Greenwood	600,146	Mar. 8	1006	225	82	1431
Stave-jointing machine	C. E. Bratt	611,587	Sept. 27	2668	614 615	84	2004
Stay and fastener	P. A. Dailey	605,402	June 7	667	148	83	1481
Stay-bolt	J. Johnson and W. V. Lukens	602,402	Apr. 12	1409	318	83	284
Stay-bolt	A. Monell	615,628	Dec. 6	760	175	85	1562
Stay. Dress-	J. Byfield	598,174	Feb. 1	178	41	82	636
Stay. Garment-	J. S. Crotty	597,815	Jan. 25	2348	548	82	506
Stays. Manufacture of dress-	G. Beacock	614,823	Nov. 29	2854		85	1230
Steak-hacker. Roller	J. E. Snelling	608,160	July 26	3005	646	84	637
Steam and hot-water boiler	H. G. Bauman	609,771	Aug. 30	2965	693	84	1290
Steam and water separator	H. Kohl	607,441	July 19	1512	322	84	325
Steam and water separator. Centrifugal	E. Leppik	608,463	Aug. 2	525	117	84	760
Steam apparatus for cooking, &c. Low-pressure	E. W. Parish	615,741	Dec. 13	955	222	85	1613
Steam. Apparatus for regenerating exhaust-	H. J. Barron	607,582	July 19	1944	404	84	414
Steam. Apparatus for regulating superheated	W. Schmidt	604,547	May 24	2444	555	83	1139
Steam. Apparatus for vaporizing and superheat-	W. Fehrmann	604,524	May 24	2396	545	83	1130
ing water contained in							
Steam as a working fluid. Means for regenerating	H. Van Heumen	607,717	July 19	2177	459	84	458
Steamboat. Ice-	A. I. Sherman	611,518	Sept. 27	2529	584	84	1979
Steam-boiler	N. F. and W. T. Anderson	613,813	Nov. 8	1063	241 242	85	839
Steam-boiler	F. F. Birch	615,241	Dec. 6	15	4	85	1414
Steam-boiler	L. Crusius	599,141	Feb. 15	1825	433	82	983
Steam-boiler	M. De Puy	597,961	Jan. 25	2592	606	82	553
Steam-boiler	J. Dickson	614,704	Nov. 22	2650	603	85	1173
Steam-boiler	A. P. Dodge	616,088	Dec. 20	1597	373	85	1754
Steam-boiler	P. F. Dundon	611,407	Sept. 27	2331	537 538	84	1942
Steam-boiler	C. H. Fox	603,482	May 3	435	96, 97	83	685
Steam-boiler	N. G. Herreshoff	605,784	June 14	1335	306	83	1626
Steam-boiler	N. G. Herreshoff	605,785	June 14	1337	306	83	1626
Steam-boiler	N. G. Herreshoff	605,786	June 14	1339	306	83	1627
Steam-boiler	E. Hook	599,609	Feb. 22	2710	634	82	1174
Steam-boiler	R. Hutchison	614,206	Nov. 15	1714	393 394	85	988
Steam-boiler	J. Johnson	616,238	Dec. 20	1914	443	85	1817
Steam-boiler	R. Joy	610,681	Sept. 13	971	224 225	84	1645
Steam-boiler	C. Lloyd	609,108	Aug. 16	1773	421 422	84	1028
Steam-boiler	E. Makin, Jr	599,853	Mar. 1	334	75	82	1276
Steam-boiler	A. J. Maloney	597,727	Jan. 25	2189	511	82	476
Steam-boiler	J. M. McCulloch	601,080	Mar. 22	2589	590	82	1764
Steam-boiler	E. J. Moore	605,791	June 14	1352	309 310	83	1629
Steam-boiler	E. J. Moore	608,065	July 26	2849	608	84	607
Steam-boiler	J. S. Rogers	612,933	Oct. 25	2399	571	85	503



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Steam-boiler .....	J. S. D. Shanks and R. Kelly, Jr. ....	611,083	Sept. 20	1692	389	84	1802
Steam-boiler .....	H. See .....	600,237	Mar. 8	1150	262	82	1459
Steam-boiler .....	J. P. Simmons .....	600,296	Mar. 8	1251	286	82	1478
Steam-boiler .....	R. Smallwood .....	599,200	Feb. 15	1918	453	82	999
Steam-boiler .....	J. A. Stevens .....	616,156	Dec. 20	1745	404	85	1783
Steam-boiler .....	J. A. Stevens .....	616,158	Dec. 20	1752	405	85	1785
Steam-boiler .....	W. C. Temple .....	613,332	Nov. 1	197	43, 44	85	655
Steam-boiler .....	W. C. Temple .....	615,644	Dec. 6	790	183	85	1569
Steam-boiler .....	S. D. Thurston .....	600,461	Mar. 8	1531	351 352	82	1530
Steam-boiler .....	J. J. Tonkin .....	601,216	Mar. 22	2822	645	82	1808
Steam-boiler .....	S. M. Vauclain .....	613,539	Nov. 1	1580	133	85	726
Steam-boiler .....	J. Weir .....	614,912	Nov. 29	3028	693	85	1262
Steam-boiler and furnace .....	H. Stanton .....	601,358	Mar. 29	3101	700 701	82	1890
Steam-boiler and furnace therefor .....	W. Hopkins .....	605,427	June 7	705	157	83	1488
Steam-boiler for marine engines .....	E. Makin, Jr .....	599,854	Mar. 1	335	75, 76	82	1276
Steam-boiler. Water-tube .....	H. Göhrig .....	600,069	Mar. 1	809	185 186	82	1372
Steam-boiler. Water-tube .....	H. Workman .....	611,952	Oct. 4	622	151	85	121
Steam-boiler. Water-tube .....	H. Workman .....	611,953	Oct. 4	623	151	85	121
Steam-drier .....	H. P. Dyer .....	610,962	Sept. 20	1471	336	84	1760
Steam-drier. Rotary .....	T. Healy and T. H. Kraft .....	539,386	Feb. 22	2281	538 539	82	1091
Steam-eliminator .....	J. and W. Lloyd and R. O. Jones ..	600,921	Mar. 22	2329	530	82	1714
Steam-engine .....	O. Abraham .....	602,418	Apr. 19	1435	324	83	303
Steam-engine .....	J. P. Backman .....	612,695	Oct. 18	1953	463	85	398
Steam-engine .....	C. W. Barnaby .....	610,017	Aug. 30	3411	791	84	1378
Steam-engine .....	S. and S. R. Chatwood .....	602,426	Apr. 19	1448	328	83	305
Steam-engine .....	T. G. Clayton .....	608,421	Aug. 2	459	102	84	747
Steam-engine .....	W. F. and E. W. Cleveland .....	602,392	Apr. 12	1389	311 312	83	280
Steam-engine .....	A. E. Cobb .....	599,830	Mar. 1	296	66	82	1268
Steam-engine .....	L. Dalla-Décimas, A. Kécheur, and A. Chagnaud .....	613,124	Oct. 25	2699	638	85	564
Steam-engine .....	C. H. Gifford .....	598,627	Feb. 8	965	232 233	82	803
Steam-engine .....	J. W. Hawkins .....	612,969	Oct. 25	2456	586	85	515
Steam-engine .....	H. M. Lane .....	605,885	June 21	1556	358	83	1687
Steam-engine .....	G. Marshall .....	612,952	Oct. 25	2428	578	85	509
Steam-engine .....	C. A. Maurer .....	603,384	May 3	238	53, 54	83	646
Steam-engine .....	I. N. Moore .....	598,949	Feb. 15	1505	358	82	922
Steam-engine .....	J. A. Reardon .....	604,415	May 24	2190	490 491	83	1095
Steam-engine .....	O. A. Ringbom .....	607,630	July 19	2034	422	84	431
Steam-engine .....	H. R. Sackett and J. H. Huhn .....	615,912	Dec. 13	1245	291 292	85	1668
Steam-engine .....	J. E. Schumacher .....	601,385	Mar. 29	3145	710	82	1898
Steam-engine .....	H. Steven .....	601,531	Mar. 29	3393	769	82	1948
Steam-engine .....	D. W. Taylor .....	614,674	Nov. 22	2595	589 590	85	1162
Steam-engine .....	J. Thom .....	615,371	Dec. 6	283	65, 66	85	1468
Steam-engine .....	W. S. Wright .....	613,350	Nov. 1	240	54	85	663
Steam-engine. Multiple-cylinder .....	O. Vezin .....	600,958	Mar. 22	2387	544	82	1726
Steam-engine. Oscillating-piston .....	O. L. Krogstad .....	611,493	Sept. 27	2489	574 575	84	1971
Steam-generating apparatus .....	H. Hennig .....	601,793	Apr. 5	328	66	83	62
Steam-generator .....	D. A. Casalonga .....	605,997	June 21	1771	406	83	1725
Steam-generator .....	C. Ferrand .....	596,865	Jan. 4	719	167 168	82	140
Steam-generator .....	C. H. Fox .....	603,502	May 3	478	106	83	692
Steam-generator .....	J. M. A. Gérard .....	616,532	Dec. 27	2465	570	85	1946
Steam-generator .....	P. D. de la Grée .....	612,098	Oct. 11	905	219	85	187
Steam-generator .....	O. Greenhalgh .....	612,771	Oct. 18	2094	496 497	85	424
Steam-generator .....	J. L. Hastings .....	615,452	Dec. 6	442	104	85	1498
Steam-generator .....	C. H. Kenney .....	611,412	Sept. 27	2340	539	84	1943
Steam-generator .....	J. B. Loquet and J. B. Ketelair ..	605,495	June 14	806	186	83	1528
Steam-generator .....	J. Lyall .....	616,715	Dec. 27	2822	652 653	85	2015
Steam-generator .....	E. P. Lynn .....	615,489	Dec. 6	505	117	85	1509
Steam-generator .....	E. Makin, Jr .....	604,496	May 24	2352	533	83	1123
Steam-generator .....	J. A. Miller .....	615,458	Dec. 6	450	106	85	1499
Steam-generator .....	A. Montupet .....	609,971	Aug. 30	3330	775 776	84	1362
Steam-generator .....	A. G. Mumford .....	607,067	July 12	804	176	84	175
Steam-generator .....	C. T. Murray .....	605,895	June 21	1570	361	83	1689
Steam-generator .....	O. D. Orvis .....	603,223	Apr. 26	2818	643 644 645	83	580
Steam-generator .....	J. C. Parker .....	608,218	Aug. 2	91	23	84	673
Steam-generator .....	E. E. Roberts .....	601,004	Mar. 22	2472	563	82	1741
Steam-generator .....	H. Seiffert .....	608,799	Aug. 9	1126	261 262	84	893
Steam-generator .....	D. M. Thompson .....	601,485	Mar. 29	3313	749	82	1930
Steam-generator .....	D. M. Thompson .....	601,486	Mar. 29	3315	750	82	1931
Steam-generator .....	D. M. Thompson .....	601,487	Mar. 29	3319	750 751	82	1931
Steam-generator .....	J. I. Thornycroft .....	603,800	May 10	1004	224 225	83	812
Steam-generator and furnace .....	D. M. Thompson .....	601,488	Mar. 29	3322	751	82	1932
Steam generator and superheater .....	W. Schmidt .....	609,631	Aug. 23	2752	641 642	84	1236
Steam-generator boiler .....	W. F. Mattes .....	615,086	Nov. 29	3380	775	85	1330
Steam-generator header. Sectional .....	A. Heberer .....	613,838	Nov. 8	1094	249	85	845



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Steam-generator superheater	J. H. Rosenthal	597,887	Jan. 25	2465	575	82	528
Steam-generator. Water-tube	L. De Naeyer	601,790	Apr. 5	324	576	83	61
Steam-generators, &c. Apparatus for burning liquid fuel in	J. J. Kermode	614,959	Nov. 29	3137	719	85	1287
Steam heater and cooker	L. C. Gillett	609,740	Aug. 23	2916	682	84	1268
Steam heater and cooker	E. H. Staley	607,631	July 19	2035	422	84	431
Steam heater and purifier. Live-	J. E. Schlieper	597,489	Jan. 18	1797	416	82	383
Steam-joint. Expansion	J. B. Wade	615,767	Dec. 13	1010	235	85	1623
Steam-joint for rotary cylinders.	M. J. Roach	599,403	Feb. 22	2316	547	82	1099
Steam-meter	G. C. St. John	599,746	Mar. 1	123	28	82	1239
Steam-motor	F. Seaver	603,660	May 10	765	170	83	765
Steam or hot-water boiler	A. Don	596,486	Jan. 4	33	8, 9	82	9
Steam or hot-water boiler	J. B. Johnston and C. B. Little	604,886	May 31	3029	695	83	1271
Steam or hot-water grate and generator	F. G. Saylor	604,088	May 17	1583	354	83	957
Steam or hot-water heater	A. B. Marshall	600,267	Mar. 8	1212	275	82	1470
Steam or hot-water heater	F. Succie	601,687	Apr. 5	117	23	83	25
Steam or other fluid-pressure engine	W. B. Crichton	604,109	May 17	1621	364	83	965
Steam-retorts. Door for closing	D. Ross	608,527	Aug. 2	634	143	84	781
Steam-separator	F. B. Corey	606,190	June 28	2139	491	83	1813
Steam-separator	A. Iler	598,630	Feb. 8	971	234	82	804
Steam-separator	N. Nilson	602,868	Apr. 26	2212	501	83	465
Steam-separator	G. I. Roberts	604,844	May 31	2955	677	83	1257
Steam-separator	F. F. Wormer	597,232	Jan. 11	1343	313	82	276
Steam-shovel	J. Campbell and D. H. Kelley	600,061	Mar. 1	797	182	82	1370
Steam-superheating apparatus	J. Grubinski	614,301	Nov. 15	1902	439	85	1021
Steam-superheater	S. and S. R. Chatwood	609,499	Aug. 23	2493	582	84	1187
Steam-trap	H. Edson and A. Tarby	600,279	Mar. 8	1229	279	82	1474
Steam-trap	C. R. Franklin	602,657	Apr. 19	1842	420	83	378
Steam-trap	H. Helling	610,862	Sept. 13	1296	298	84	1712
Steam-trap	B. W. Hill	604,860	May 31	2990	686	83	1263
Steam-trap	H. C. Mooers	612,430	Oct. 18	1481	358	85	309
Steam-trap	V. A. Prost	608,384	Aug. 2	384	84	84	732
Steam-trap	A. Stucki	598,824	Feb. 8	1277	309	82	862
Steam-trap	B. Thoens	603,980	May 10	1322	303	83	873
Steam-trap	J. I. and J. E. Thornycroft	615,764	Dec. 13	1001	233	85	1621
Steam-trap	A. Werts	613,481	Nov. 1	498	112	85	710
Steam-trap and boiler-feeder	T. G. Gallagher	607,740	July 19	2211	467	84	464
Steam-trap. Automatic reservoir	F. Lamplough	614,559	Nov. 22	2372	542	85	1123
Steam-washer	A. Dunlop and E. Cruzan	599,167	Feb. 15	1871	443	82	990
Steel and cast metal. Making composite articles of manganese	E. Samuel	599,636	Feb. 22	2774	644	82	1189
Steel balls. Machine for making	W. W. Brisben	607,015	July 12	683	149	84	155
Steel for castings. Treating	C. H. Wellman	609,750	Aug. 23	2931	-----	84	1270
Steel. Manufacture of basic open-hearth	S. T. and C. H. Wellman and C. M. Schwab	600,105	Mar. 1	878	-----	82	1386
Steel. Manufacture of open-hearth	B. Talbot	599,290	Feb. 15	2073	-----	82	1029
Steel or other metals. Dephosphorizing	J. Gordon	609,341	Aug. 16	2196	-----	84	1112
Steel. Producing	J. Burns	610,701	Sept. 13	1003	-----	84	1652
Steelyard	C. H. Bartlett	603,885	May 10	1174	265	83	845
Steering apparatus braking mechanism	W. T. Johnston	610,680	Sept. 13	969	224	84	1645
Steering apparatus. Electrical	H. O. F. Bindemann	603,886	May 10	1175	266	83	845
Steering-apparatus locking device	W. E. Hammond	610,485	Sept. 6	642	144	84	1561
Steering-gear	A. O. Taylor	616,211	Dec. 20	1841	425	85	1802
Steering-gear. Steam	W. H. Harfield	603,038	Apr. 26	2504	426	83	519
Steering. Hydraulic transmitter for	W. C. Williamson	616,756	Dec. 27	2877	666	85	2025
Steering mechanism for vessels. Hydraulic	J. and H. W. Ritchie	601,679	Apr. 5	100	20	83	21
Steering ships. Means for	W. Kuss	598,424	Feb. 1	622	153	82	721
Stencil-cutting machine	A. J. Bradley	612,922	Oct. 25	2381	567	85	500
Stencil-machine	A. J. Bradley	612,892	Oct. 25	2337	556	85	490
Stencil-making machine	J. Sternfeld	607,291	July 12	1237	264	84	255
Stencil-plate	E. Pomeroy	601,479	Mar. 29	3301	-----	82	1928
Stenciling-machine. Rotary	A. C. Thomas and C. M. Hamilton	604,506	May 24	2368	537	83	1126
Stentering-machine clip	W. Mather	597,996	Jan. 25	2658	621	82	566
Step and platform gate. Combination	R. H. Catlett	611,196	Sept. 20	1890	437	84	1840
Step-pad	H. C. Swan	605,357	June 7	576	127	83	1462
Step-pad. Adjustable	H. C. Swan	598,398	Feb. 1	553	135	82	707
Stereoscope	W. A. Fried	597,520	Jan. 18	1843	427	82	392
Stereoscope	B. L. Singley	597,440	Jan. 18	1707	395	82	364
Stereoscopic effects in exhibiting pictures. Device for obtaining	C. F. Jenkins	606,993	July 5	620	135	84	122
Stereotype-bases. Flexible sheet for rubber	W. A. Force	613,064	Oct. 25	2609	618	85	546
Stereotype-plate	C. T. Murray	605,894	June 21	1568	361	83	1689
Sterilizer	W. M. Decker	612,625	Oct. 18	1837	436	85	377
Sterilizers. Pressure-regulator for liquid-	A. L. Rockström	606,738	July 5	180	40	84	37
Sterilizing apparatus	E. Hilberg	610,709	Sept. 13	1024	236	84	1656
Sterilizing apparatus	A. Moyet	605,738	June 14	1236	286	83	1608
Sterilizing apparatus	A. J. Vause	599,205	Feb. 15	1924	455	82	1000
Sterilizing apparatus	J. Weck	609,856	Aug. 30	3114	727	84	1320
Sterilizing corn for making dough	E. and A. Bougleux	607,981	July 26	2690	-----	84	574
Sterilizing liquids. Process of and apparatus for	E. W. Kuhn	597,082	Jan. 11	1102	261	82	231
Sterilizing milk, &c. Apparatus for	E. C. de Segundo	615,108	Nov. 29	3419	784	85	1338
Sterilizing milk, &c. Apparatus for continuously	E. G. N. Salenius	615,050	Nov. 29	3314	761	85	1318



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sterilizing milk, &c. Device for	W. Kortüm	607,802	July 19	2347	495	84	491
Stethoscope	R. Papendell	599,064	Feb. 15	1698	496	82	960
Stew-pan	J. H. Davis	612,406	Oct. 18	1441	348	85	301
Stirrup	J. T. House	608,605	Aug. 9	781	179	84	829
Stirrup	C. Steenken	604,801	May 31	2887	660	83	1244
Stirrup-fender	R. C. Brookes	610,640	Sept. 13	912	209	84	1633
Stirrup. Safety-	J. W. Thorn	606,368	June 28	2487	578	83	1882
Stitch indenting and separating machine	J. Lee	602,859	Apr. 26	2203	499	83	463
Stitch separating and indenting machine	A. Eppler, Jr	611,571	Sept. 27	2632	607	84	1999
Stitch separating and indenting machine	J. B. Hadaway	609,100	Aug. 16	1756	418	84	1024
Stock-guard	J. M. Lee	614,013	Nov. 8	1380	316	85	902
Stock-yard gate	B. F. Strange	611,153	Sept. 20	1826	420	84	1828
Stocking	N. Hayden and C. F. C. Wurst	615,271	Dec. 6	94	25	85	1431
Stocking. Elastic	A. B. Kendrick	609,031	Aug. 16	1607	383	84	998
Stoker for furnaces. Automatic	D. R. Ward	607,533	July 19	1848	384	84	397
Stoker. Mechanical	W. D. Grimshaw	600,419	Mar. 8	1445	330	82	1515
Stoker. Mechanical	J. J., T. F., and J. W. Meldrum and F. Clayton.	609,038	Aug. 16	1620	385	84	1001
Stoker. Mechanical	J. F. Pool	616,009	Dec. 13	1443	337	85	1707
Stoker. Mechanical	F. A. Stevens	606,815	July 5	337	72	84	67
Stoker. Mechanical	J., Sr., T., and J. Vicars, Jr	606,607	June 28	2918	677	83	1966
Stoker. Underfeed	W. R. Wood	608,819	Aug. 9	1194	279	84	905
Stone. Artificial	W. Courtenay	608,756	Aug. 9	1048	240	84	881
Stone. Artificial	R. H. Smith	613,085	Oct. 25	2645	625	85	553
Stone-cleaning composition	J. W. Finerty	606,759	July 5	232		84	47
Stone composition. Artificial	J. and H. Hobson	611,200	Sept. 20	1903		84	1842
Stone. Composition for artificial	C. Frenchel	611,621	Oct. 4	49		85	12
Stone-cutting machine	G. Wincqz and H. Machepy	602,890	Apr. 26	2246	511	83	471
Stone-dressing machine	W. R. Hinsdale	600,989	Mar. 22	2440	557	82	1735
Stone-forming apparatus. Artificial	A. Katz	599,786	Mar. 1	192	48	82	1252
Stone. Indurating apparatus for artificial	W. Büsche	598,411	Feb. 1	599	147	82	716
Stone or coal. Machine for winning	F. H. Heise	601,467	Mar. 29	3286	743	82	1925
Stone or wood, &c. Method of and composition for producing imitation	F. R. A. Sundell	607,095	July 12	871		84	187
Stone-picker	R. H. Blanchard and F. B. Vaughn	597,491	Jan. 18	1800	417	82	383
Stone press. Artificial	W. Carus	598,854	Feb. 8	1331	322	82	872
Stone-sawing machine	H. H. Cummings	601,789	Apr. 5	320	63	83	61
Stone-sawing machine	W. Lautz	610,653	Sept. 13	929	214	84	1636
Stone-sawing machine	W. Murphy	608,703	Aug. 9	958	220	84	864
Stone-sawing machine	F. W. Shettleworth	598,446	Feb. 1	647	159	82	726
Stone-working tool	J. Sinclair	600,808	Mar. 15	2138	488	82	1665
Stones. Machine for picking up	A. J. De Witt	598,699	Feb. 8	1089	262	82	826
Stool and chair. Convertible piano	L. H. and G. C. Roby	602,773	Apr. 19	2039	462	83	417
Stool and foot-rest. Combined	T. Kennedy	601,021	Mar. 22	2498	568	82	1746
Stool. Counter-	A. A. Lind	598,105	Feb. 1	63	15	82	614
Stool. Counter or table	C. H. Lind	610,143	Aug. 30	3607	838	84	1419
Stool. Folding	J. F. Beatty	601,118	Mar. 22	2649	605	82	1777
Stool. Folding	W. M. Bowman	615,135	Nov. 29	3461	794	85	1346
Stool. Folding	J. L. Chapman	615,476	Dec. 6	488	113	85	1506
Stool. Folding	F. E. Upham	600,462	Mar. 8	1533	352	82	1530
Stool. Folding	F. Yuncck	596,931	Jan. 4	823	195	82	161
Stool for stores. Counter-	G. A. Coulson and J. McCaw	602,210	Apr. 12	1084	237	83	218
Stool. Piano-	H. B. Banes	603,617	May 10	693	155	83	751
Stool. Piano-	W. T. Brown	611,891	Oct. 4	519	125	85	103
Stool. Piano-	C. L. Swanson	600,812	Mar. 15	2143	490	82	1667
Stool. Store-	A. R. Milner	607,546	July 19	1877	390	84	402
Stool. Store or counter	A. R. Milner	597,686	Jan. 18	2117	495	82	444
Stop. Automatic safety-	G. H. Reynolds	610,587	Sept. 13	825	189	84	1614
Stop device. Automatic safety	J. K. Wright	602,384	Apr. 12	1370	307	83	276
Stop-gate	E. L. Ford	606,920	July 5	509	112	84	101
Stopper:							
See Barrel or keg stop-	Bottle valve-stopper.						
per.	Flue-stopper.						
Bottle-stopper.	Jug-stopper.						
Bottle or jar stopper.	Valve-stopper.						
Stopper	W. Nutt	605,125	June 7	97	26	83	1370
Stopper for discharge of aerating capsules	H. V. R. Read	602,269	Apr. 12	1179	259	83	237
Stopper for fixed washbowls	H. C. Cornelius	615,431	Dec. 6	402	96	85	1491
Stopper for jars, bottles, cans, or other vessels	E. A. Matthias and W. H. Harrison	610,408	Sept. 6	513	112	84	1537
Stopper or closure	L. H. Abbee, S. A. Sewall, and A. J. Bennwitz.	608,502	Aug. 2	590	132	84	772
Stoppered jar, bottle, or other receptacle	W. A. Parsons and W. Rawson	609,974	Aug. 30	3337	777	84	1364
Storage battery	E. A. Barber	603,229	Apr. 26	2834	647	83	583
Storage battery	C. S. Kaufmann	601,471	Mar. 29	3292	744	82	1926
Storage battery	H. S. Lloyd	604,588	May 24	2514	572	83	1153
Storage battery	J. D. Rively	608,714	Aug. 9	980	225	84	868
Storage battery	G. A. Washburn	602,176	Apr. 12	1026	225	83	207
Storage or secondary battery	R. Ashley. (Reissue)	11,676	July 5	662	144	84	131
Storage-tank	W. Graver	597,879	Jan. 25	2453	572	82	526
Store-fixture	C. S. Palm	600,233	Mar. 8	1142	260	82	1458
Store-service apparatus	J. H. Goodfellow	607,032	July 12	718	153	84	160
Store-service apparatus	J. H. Goodfellow	608,594	Aug. 9	759	175	84	826
Store-service apparatus	J. H. Goodfellow	608,595	Aug. 9	761	175	84	826
Store-service apparatus	J. H. Goodfellow	608,596	Aug. 9	763	175	84	826



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Store-service apparatus	J. H. Goodfellow	608,597	Aug. 9	765	176	84	827
Store-service-apparatus stop mechanism	S. W. Barr	615,338	Dec. 6	204	50	85	1453
Stove	H. Adler	600,702	Mar. 15	1968	448 449	82	1633
Stove	W. W. Baldwin	609,768	Aug. 30	3959	692	84	1290
Stove	L. B. Bowers	610,795	Sept. 13	1184	273	84	1688
Stove	A. B. Clunies	607,111	July 12	894	193 194	84	192
Stove	E. C. Cole	604,655	May 24	2622	600	83	1175
Stove	W. C. Dimmock	599,225	Feb. 15	1956	463 464	82	1007
Stove	R. Fletcher	610,581	Sept. 13	814	186	84	1612
Stove	F. J. Gould	602,577	Apr. 19	1697	386	83	351
Stove	J. A. Hampton	599,559	Feb. 22	2612	612	82	1156
Stove	M. Jahn	599,709	Mar. 1	60	14	82	1228
Stove	W. J. Keep	612,004	Oct. 4	716	172	85	140
Stove	C. T. Litchfield and J. T. Baugher	604,991	May 31	3196	735	83	1304
Stove	J. N. Morse	603,113	Apr. 26	2643	600	83	546
Stove	G. Nolte	615,300	Dec. 6	141	37, 38	85	1441
Stove	A. Ohnemus	609,698	Aug. 23	2856	668	84	1256
Stove	W. H. Page	615,302	Dec. 6	144	38	85	1441
Stove	A. C. Terrell and S. McClure	606,694	July 5	107	23	84	24
Stove	W. Thompson	615,415	Dec. 6	378	89	85	1486
Stove	F. C. Wilson	602,118	Apr. 12	914	199	83	185
Stove. Air-tight double-heater wood-	D. Weidley	600,657	Mar. 15	1875	429	82	1615
Stove. Air-tight heating-	J. W. and W. W. Wilson	605,037	May 31	3277	753	83	1319
Stove and grate	J. S. Van Buren	602,529	Apr. 19	1621	370	83	338
Stove-base	J. A. Horton	600,247	Mar. 8	1169	265 266	82	1462
Stove-base	S. C. Hulbert	597,416	Jan. 18	1655	384 385	82	355
Stove. Blue-flame oil-	C. H. Boeck	603,124	Apr. 26	2661	604 605	83	550
Stove-body fastening	W. D. Southard	608,347	Aug. 2	328	72	84	721
Stove. Camp-	F. B. Charroin	605,999	June 21	1774	407	83	1726
Stove. Combination cooking and heating	M. Quinn	611,938	Oct. 4	594	144	85	117
Stove. Combined wood and straw burning heating and cooking	S. B. Palmer	602,998	Apr. 26	2443	557	83	508
Stove. Convertible quick or slow combustion	G. Jobson	615,184	Nov. 29	3551	816 817	85	1365
Stove. Cook-	J. R. Burgess	609,264	Aug. 16	2063	490	84	1086
Stove. Cook-	J. B. Turbeville	608,533	Aug. 2	640	144	84	782
Stove. Cooking-	A. M. Amos	607,976	July 26	2680	572	84	572
Stove. Cooking-	T. R. Kennedy	596,710	Jan. 4	453	102	82	88
Stove. Cooking-	O. W. Snyder	606,846	July 5	399	85	84	80
Stove. Cooking-	A. W. Walker	605,303	June 7	472	106	83	1441
Stove-deflector	A. Birkicht	616,521	Dec. 27	2448	567	85	1943
Stove-door	A. Alitto	616,281	Dec. 20	1984	462	85	1832
Stove-fender	G. T. McNamee	610,555	Sept. 13	774	176	84	1603
Stove for cooking purposes, &c. Gas-	R. Pringle	605,011	May 31	3229	743	83	1311
Stove. Gas-	W. S. Alter	598,552	Feb. 8	826	197	82	777
Stove. Gas-	P. J. Cassidy	597,392	Jan. 18	1620	377	82	349
Stove. Gas-	M. Griswold, Jr., and D. Shields	601,039	Mar. 22	2525	574	82	1751
Stove. Gas-	J. Langfield	605,725	June 14	1213	280 281	83	1603
Stove. Gas-	A. L. Pitney	603,456	May 3	371	84	83	672
Stove. Gas-	F. Siemens	597,029	Jan. 11	998	235	82	210
Stove. Gas-	P. G. Van Wie	602,041	Apr. 5	784	170	83	148
Stove. Gasolene-	W. Brown	608,388	Aug. 2	393	87	84	733
Stove. Gasolene-	G. B. Murrell	603,452	May 3	364	82	83	670
Stove heater and radiator	C. Ellingsen	613,564	Nov. 1	622	144	85	734
Stove. Heating-	C. Barnhart	598,840	Feb. 8	1302	315	82	867
Stove. Heating-	J. H. Brown	609,773	Aug. 30	3268	694 695	84	1291
Stove. Heating-	J. R. Carter	608,574	Aug. 9	720	165	84	819
Stove. Heating-	D. W. Cole	596,693	Jan. 4	425	96	82	84
Stove. Heating-	T. H. Conway	606,048	June 21	1870	431	83	1742
Stove. Heating-	P. J. Coppens	609,662	Aug. 23	2798	652	84	1244
Stove. Heating-	R. A. Culter	610,260	Sept. 6	214	48	84	1484
Stove. Heating-	A. Deadman	616,526	Dec. 27	2457	568	85	1944
Stove. Heating-	C. L. Feldweg	602,001	Apr. 5	718	153	83	136
Stove. Heating-	E. G. Germer	611,624	Oct. 4	53	14	85	13
Stove. Heating-	S. Holmgren	615,987	Dec. 13	1400	328	85	1699
Stove. Heating-	E. H. Huenefeld	612,202	Oct. 11	1074	257	85	219
Stove. Heating-	J. L. Ritter and L. H. Hazlewood	602,474	Apr. 19	1533	348 349	83	321
Stove. Heating-	A. G. Ryley	603,742	May 10	899	200	83	791
Stove-hood. Portable	L. B. Keller	603,730	May 10	879	195	83	788
Stove. Hot-blast	F. C. Roberts	614,894	Nov. 29	2999	687	85	1257
Stove. Hydrocarbon-oil-gas	H. W. Libbey	603,010	Apr. 26	2463	560	83	512
Stove. Knockdown	J. F. Pjerrou	611,143	Sept. 20	1806	416	84	1824
Stove. Lamp-	J. E. Nichols	603,341	May 3	171	39	83	634
Stove. Laundry-	S. Palmer	611,818	Oct. 4	394	94	85	79
Stove-leg	A. Kissell and I. J. Space	602,335	Apr. 12	1291	286	83	260
Stove-leg attachment	E. C. Sheeler	600,452	Mar. 8	1506	344	82	1525
Stove-leg. Sheet-metal	J. B. Schneider	604,639	May 24	2599	593	83	1170
Stove-lid-lifter-suspending device	E. Anderson	612,451	Oct. 18	1516	364	85	316
Stove-lining	G. C. Hicks	607,928	July 26	2603	84	84	557
Stove. Magazine heating-	L. Mitiska	616,003	Dec. 13	1432	335	85	1705
Stove. Oil-	C. H. Boeck	603,123	Apr. 26	2659	604	83	550
Stove. Oil-	W. H. Wilder	612,887	Oct. 25	2330	554 555	85	489
Stove. Oil-	W. H. Wilder	616,218	Dec. 20	1859	430	85	1806
Stove or furnace	A. Engstrand, A. D. Sundeen, J. C. Pope, and R. W. Safford.	601,437	Mar. 29	3236	730	82	1915
Stove or furnace	J. W. and F. C. Lilley	613,379	Nov. 1	288	65, 66	85	673



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Stove or furnace	E. D. McLean	600,795	Mar. 15	2117	484	82	1662
Stove or furnace	W. W. Rossman	601,590	Mar. 29	3478	793	82	1965
Stove or furnace	W. J. Selby	605,519	June 14	837	195	83	1534
Stove or furnace. Coal	J. Bond	616,651	Dec. 27	2683	621	85	1986
Stove or furnace. Heating	F. A. Wilkinson	599,377	Feb. 22	2258	535	82	1087
Stove or other grate	A. Alitto	605,242	June 7	340	78	83	1415
Stove or range	J. Erben	610,941	Sept. 20	1428	328	81	1752
Stove or range	T. R. Kennedy	597,320	Jan. 11	1477	345 346	82	304
Stove or range	H. W. Mason	602,166	Apr. 12	1010	221 222	83	203
Stove or range	A. R. Peale	616,726	Dec. 27	2838	657	85	2018
Stove or range	F. Will and A. B. Clunies	598,548	Feb. 8	821	196	82	776
Stove or range. Cooking	J. J. McGuff	605,897	June 21	1573	362	83	1690
Stove outlet-pipes. Combined cooking and warming attachment for	G. R. Moon	612,954	Oct. 25	2430	579	85	510
Stovepipe	H. Boggis	613,554	Nov. 1	606	139	85	731
Stovepipe	W. H. Page	599,248	Feb. 15	2000	475	82	1015
Stovepipe	W. P. Riviere	606,581	June 28	2873	662	83	1959
Stovepipe attachment	J. A. Hanger	606,967	July 5	572	125	84	114
Stovepipe-coupling	A. E. Lotstrom	601,444	Mar. 29	3253	735	82	1918
Stovepipe-fastener	J. Jones	602,332	Apr. 12	1287	285	83	259
Stovepipe-joint	F. Tharp	605,263	June 7	397	89	83	1427
Stovepipe-lock	P. J. Carroll, P. C. Fenton, L. Kline, and L. B. Seltzer.	604,019	May 17	1452	325	83	933
Stovepipe or other coupling	C. L. Becker	613,229	Nov. 1	7	2	85	618
Stovepipe-shelf	W. Haas	616,788	Dec. 27	2933	682	85	2037
Stovepipe-thimble	C. W. Schwanengel and J. F. Sacksteder.	600,894	Mar. 22	2288	522	82	1707
Stove-polish	J. H. Pelletier	615,042	Nov. 29	3297	-----	85	1315
Stove. Portable	G. E. Olmstead	613,389	Nov. 1	310	72	85	676
Stove. Portable farm-	J. Weber and M. Thurner	604,842	May 17	2059	461	83	1049
Stove. Self-feeding oil-	E. H. Driggs	603,322	May 3	138	32	83	628
Stove. Sheet-iron	C. C. Huntington	599,449	Feb. 22	2410	566	82	1159
Stove. Sheet-iron	J. A. Schneider	613,781	Nov. 8	995	227	85	826
Stove. Sheet-metal	C. T. McCarroll	597,427	Jan. 18	1677	389	82	318
Stove. Sheet-metal laundry-	T. F. Morgan and C. B. Dunnagan	615,629	Dec. 6	761	176	85	1563
Stove. Slow-combustion	H. J. Piron	603,967	May 10	1303	298	83	870
Stove. Tailor's	A. Lundstrom	614,118	Nov. 15	1567	358	85	959
Stove valves. Indicator for gas or vapor	O. P. Moon	600,884	Mar. 22	2275	518	82	1705
Stove. Vapor-	H. C. Campbell	604,366	May 24	2111	474	83	1079
Stove vapor-burner	F. C. Wingett and A. J. Blackwood	613,347	Nov. 1	229	52	85	661
Stove. Vapor or gas	I. Kinsey and J. Kirby, Jr.	600,833	Mar. 15	2179	496	82	1673
Stove. Vaporizing oil-	W. H. Silver	604,703	May 24	2719	621	83	1193
Stove. Wood-	I. Brooke	610,026	Aug. 30	3430	794	84	1382
Stove. Wood-burning	E. H. Huenefeld	601,565	Mar. 29	3441	782	82	1958
Stove. Wood-burning	W. H. James	600,248	Mar. 8	1171	266	82	1463
Stoves, &c. Fire-pot for	W. T. Bradberry	596,843	Jan. 4	677	156	82	131
Stoves, &c. Fuel-burning attachment for	W. H. Riess	600,621	Mar. 15	1822	418	82	1605
Stoves. Handle for movable portions of	C. V. Roberts	597,618	Jan. 18	1998	466	82	424
Stoves, &c. Heating device for	S. B. Goff	599,419	Feb. 22	2344	553 554	82	1105
Stoves. Hot-air attachment for heating-	J. H. J. Clare	602,814	Apr. 19	2124	479	83	492
Stoves. Means for automatic control of gas-supply in gas cooking-	J. Wynn	611,425	Sept. 27	2369	544	84	1947
Stoves. Means for connecting gas-supply pipes with burners of gas-	H. Hommel	600,872	Mar. 22	2248	512	82	1700
Stoves or ranges. Elevated supplemental oven for	J. N. Long	613,521	Nov. 1	555	126	85	721
Stoves or ranges. Safety attachment for gas	W. De Freitas	599,283	Feb. 15	2057	483	82	1026
Stoves or ranges. Ventilating-canopy for cook	C. Spurlin	603,386	May 3	241	54	83	647
Stoves. Ornamental top for cooking-	E. L. Abel	601,311	Mar. 29	3032	682	82	1876
Stoves. Supply-tank for gasoline-	J. Jenkins	607,044	July 12	735	158	84	164
Stoves. Warming-oven for oil or vapor burning	A. J. Frank	615,267	Dec. 6	87	24	85	1430
Stoves. Warming-shelf for gas or other	J. C. Cammack	596,477	Jan. 4	20	5	82	7
Straightener and polisher. Rotary	W. G. Algeo, Jr.	603,836	May 10	1083	242	83	826
Straightening-machine	R. W. Lundy	611,695	Oct. 4	183	43, 44	85	39
Straightening-machine	J. Zimmer	604,282	May 17	1937	433 434	83	1026
Strainer	J. Littlejohn	599,617	Feb. 22	2721	636	82	1177
Strainer	C. C. Worthington	603,120	Apr. 26	2651	602	83	548
Strainer and filter for conductor-pipes	E. Culver	603,554	May 3	574	127	83	712
Strainer and sifter	T. W. Otto	599,728	Mar. 1	87	21	82	1233
Strainer. Coffee-pot	S. J. Freeman	601,955	Apr. 5	652	137	83	122
Strainer. Fruit-	C. F. Phillips	610,368	Sept. 6	443	96	84	1523
Strainer. Milk-	A. L. Rowling	605,829	June 14	1419	324	83	1642
Strainer. Milk-	J. N. Wright	609,529	Aug. 23	2538	594	84	1195
Strainer. Milk-pail	F. Ansley	603,673	May 10	791	174	83	771
Strainer. Pot or kettle	C. Yeager	615,468	Dec. 6	472	111	85	1503
Strainer. Pump-	H. C. Hansen	615,847	Dec. 13	1140	266	85	1648
Strainer. Sink-	A. A. Russell	597,482	Jan. 18	1787	413	82	381
Strainer. Washboiler-	L. T. Cook	611,561	Sept. 27	2615	602	84	1995
Strainer. Well-	J. Booth	604,651	May 24	2617	599	83	1174
Strainers. Flushing attachment for sink-	O. W. Swift	601,360	Mar. 29	3104	701	82	1890
Straining apparatus	H. Evans	600,361	Mar. 8	1354	310	82	1497
Straining apparatus. Continuously-acting	L. Procházka	614,498	Nov. 22	2284	523	85	1107
Straining-wheel for liquids	C. S. Wheelwright	611,879	Oct. 4	496	120	85	99
Strap							
See Bicycle bundle- Car hand-strap.							
strap. Hame-strap.							
Breast-strap. Trunk-strap.							
Car-strap.							
Strap-fastener	F. L. Moore	605,609	June 14	1008	233	83	1565
Strap-fastener	G. S. Sammis	605,300	June 7	467	105	83	1440
Strap or rope clamp and tightener	A. G. Thayer	610,105	Aug. 30	3547	822	84	1409
Straps tight prior to being buckled. Device for drawing	E. S. Ellis	599,142	Feb. 15	1826	433	82	983
Straw, &c. Electrolytically treating	G. H. Pond	616,139	Dec. 20	1713	397	85	1775



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Straw or strand feeding device .....	F. E. Arrouquier .....	606,619	June 28	2937	681	83	1970
Street-cleaner .....	R. W. Furnas .....	599,231	Feb. 15	1966	466	82	1008
Street-flushing machine .....	M. A. Rich .....	613,910	Nov. 8	1214	277	85	868
Street-indicator .....	E. J. Hall .....	602,746	Apr. 19	1997	453	83	408
Street-sprinkler .....	J. Jones and A. Gillies .....	599,938	Mar. 1	496	111	82	1307
Street-sprinkler .....	W. S. Twining .....	596,669	Jan. 4	372	83	82	74
Street-sprinkling, irrigating, and fire-extinguishing system .....	A. McGeoch .....	605,611	June 14	1011	233	83	1565
Street-sweeper .....	M. B. Atkinson .....	611,586	Sept. 27	2666	614	84	2004
Street-sweeper .....	A. Brown .....	605,385	June 7	628	140	83	1472
Street-sweeper .....	A. C. A. Dupuy .....	615,537	Dec. 6	600	137	85	1528
Street-sweeper .....	W. Franz .....	605,415	June 7	688	153	83	1485
Street-sweeper .....	J. Hasson .....	600,222	Mar. 8	1124	256	82	1454
Street-sweeper .....	J. Jones and A. Gillies .....	599,936	Mar. 1	493	111	82	1306
Street-sweeper .....	J. Jones and A. Gillies .....	599,937	Mar. 1	495	111	82	1307
Street-sweeper .....	S. D. Lanyon and J. W. Tripp .....	602,458	Apr. 19	1504	343	83	315
Street-sweeper .....	S. Moore .....	609,113	Aug. 16	1781	423	84	1029
Street-sweeper .....	A. P. Palmer and H. L. Phelps .....	616,685	Dec. 27	2754	639	85	2001
Street-sweeper .....	F. M. Pitman and W. T. Maxwell .....	612,632	Oct. 18	1852	439	85	379
Street-sweeper .....	E. J. Smith .....	606,248	June 28	2269	524	83	1839
Street-sweeper .....	I. E. Stump .....	601,598	Mar. 29	3492	796	82	1967
Strength-testing apparatus. Coin-controlled .....	J. Milo .....	612,168	Oct. 11	1023	246	85	210
Stretcher, neck-yoke, and singletree. Combination .....	J. Journeay .....	614,957	Nov. 29	3135	719	85	1286
String-case .....	G. A. Rapp .....	607,130	July 12	930	202	84	198
String instrument .....	T. Brett .....	601,788	Apr. 5	318	63	83	60
String-instrument pin-bridge .....	G. A. Fullerton .....	609,882	Aug. 30	3161	738	84	1330
String-instrument striking apparatus .....	A. Heine .....	607,434	July 19	1503	320	84	323
String instruments. Striking apparatus for .....	A. Heine .....	600,150	Mar. 8	1015	227	82	1432
Stringed instrument .....	J. A. Jonkhoff .....	604,761	May 31	2825	645	83	1232
Stringed-instrument bridge .....	L. Utt .....	615,053	Nov. 29	3318	763	85	1319
Stringed-instrument head .....	G. Heinzman .....	608,856	Aug. 9	1264	294	84	919
Stringed-instrument head-piece .....	J. Brandt .....	609,531	Aug. 23	2540	595	84	1195
Stripping-comb .....	T. R. Marsden and H. Walsh .....	607,938	July 26	2618	556	84	560
Stropping-machine .....	A. W. Scheuber .....	613,825	Nov. 8	1076	245	85	841
Stud and eyelet for same .....	A. Leblanc .....	609,512	Aug. 23	2509	587	84	1189
Stud-fastener .....	J. Weiss .....	612,793	Oct. 18	2141	508	85	435
Stud or rivet. Hollow .....	R. Poore .....	605,010	May 31	3229	743	83	1311
Stud-spirals. Machine for coiling .....	G. U. Roulet and W. F. Young .....	615,749	Dec. 13	968	225	85	1615
Study-table .....	J. K. Whippo .....	609,751	Aug. 23	2932	685	84	1270
Stuffing-box .....	E. Armstrong .....	606,754	July 5	223	48	84	46
Stuffing-box .....	C. F. Lufkin .....	599,852	Mar. 1	332	75	82	1276
Stuffing-box. Self-adjusting .....	C. S. Keeler .....	612,003	Oct. 4	715	172	85	140
Stump-burner and insect-extermiator .....	V. Rieke .....	612,675	Oct. 18	1925	456	85	393
Stump-extractor .....	A. E. Albertson .....	601,113	Mar. 22	2643	603	82	1776
Stump-extractor .....	E. Detwiler .....	612,662	Oct. 18	1906	451	85	389
Stump-extractor .....	G. H. Rollins .....	605,586	June 14	961	223	83	1557
Stump or tree extractor .....	A. Forrer .....	612,586	Oct. 18	1751	414	85	359
Stump-puller .....	F. A. Bourbeau .....	613,555	Nov. 1	607	140	85	731
Stump-puller .....	B. C. Rigdon and S. Dobson .....	606,391	June 28	2531	587	83	1890
Stump-puller .....	C. Runge .....	599,518	Feb. 22	2533	595	82	1141
Stump-puller and grubbing-machine .....	M. Bateman and W. C. F. Zimmer- man .....	599,214	Feb. 15	1942	460	82	1004
Stump-splitting device .....	J. C. Sharp .....	608,346	Aug. 2	325	72	84	721
Submarine mining and exploration. Apparatus for .....	C. Brown .....	616,567	Dec. 27	2519	583	85	1956
Submarine-work apparatus .....	G. Pino .....	612,458	Oct. 18	1526	366	85	317
Submerged stone and concrete structures, &c. Building .....	D. Jordan .....	604,235	May 17	1845	413	83	1008
Sucker-rod elevator .....	H. H. McLaughlin .....	600,163	Mar. 8	1031	232	82	1436
Sucker-rod joint .....	K. Chickering .....	607,614	July 19	2003	415	84	425
Sucker-rod lifter .....	C. F. Richey .....	611,417	Sept. 27	2348	541	84	1945
Sugar articles or confectionery. Manufacturing colored molded ornamentations on .....	G. Lembke .....	615,191	Nov. 29	3562	820	85	1366
Sugar-boiling .....	H. A. J. Manoury .....	599,148	Feb. 15	1835	-----	82	985
Sugar-crystallizer .....	E. P. Eastwick, Jr .....	608,446	Aug. 2	494	112	84	754
Sugar-crystallizer .....	J. F. Kilby and J. Taylor .....	599,392	Feb. 22	2294	542	82	1094
Sugar-crystallizing machine .....	H. P. Dyer .....	607,228	July 12	1121	240	84	233
Sugar-drier .....	L. J. and A. L. Barthelemy .....	605,772	June 14	1293	300	83	1619
Sugar-juices. Defecating .....	H. A. J. Manoury .....	601,305	Mar. 29	3023	-----	82	1875
Sugars from molasses. Separating .....	G. Kassner .....	611,381	Sept. 27	2283	-----	84	1932
Suit. Combination .....	H. W. Prescott .....	599,110	Feb. 15	1775	422	82	974
Suit. Union .....	A. Allen .....	613,953	Nov. 8	1284	291	85	882
Sulfids. Electrolytically manufacturing metallic .....	J. W. Richards and C. W. Roepper .....	602,873	Apr. 26	2220	-----	83	467
Sulfids. Making .....	H. S. Blackmore .....	605,458	June 7	749	-----	83	1497
Sulfur from sulfates. Obtaining .....	V. de Baranoff and E. Hildt .....	616,391	Dec. 20	2185	510	85	1871
Sulky .....	G. Greutman .....	615,447	Dec. 6	430	102	85	1496
Sulky .....	R. P. Saffold .....	599,257	Feb. 15	2012	477	82	1017
Sulky and device for attaching horses thereto. Single-wheel .....	T. S. Heath .....	605,099	June 7	58	17	83	1363
Sulky. Pneumatic .....	G. W. Decker .....	597,605	Jan. 18	1980	461	83	420
Sunshine-recorder .....	L. Hunt .....	607,748	July 19	2222	470	84	466
Superheater .....	J. von Grubinski .....	599,780	Mar. 1	183	45, 46	82	1250
Supply-tank. Self-acting .....	H. Lawless .....	601,474	Mar. 29	3295	745	82	1926
Support and luggage-carrier. Combined .....	C. A. Kennedy .....	611,256	Sept. 27	2021	466	84	1884
Supporter: See Abdominal sup- porter.      Drawers-supporter. Sash-supporter.							
Supporting-bracket .....	C. H. Hahn and C. E. Salewsky .....	609,933	Aug. 30	3251	759	84	1347



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Suppository.....	I. N. Miller and J. B. Moss.....	604,063	May 17	1534	345	83	948
Surface rods. Machine for drawing together ends of.	H. J. Tracy.....	598,165	Feb. 1	154	36	82	632
Surge-reliever.....	F. P. Nesmith.....	608,344	Aug. 2	322	71	84	720
Surgeon's splint.....	J. C. McBeth.....	610,866	Sept. 13	1302	299	84	1713
Surgical apparatus.....	C. S. Smith.....	607,666	July 19	2100	438	84	442
Surgical bandage.....	D. Scott.....	598,016	Jan. 25	2690	82	571	
Surgical case.....	F. A. Reichardt.....	611,023	Sept. 20	1583	363	84	1781
Surgical chair.....	E. J. Wells.....	612,760	Oct. 18	2074	491 492	85	421
Surgical dressing. Antiseptic.....	T. W. McCue.....	606,019	June 21	1816	83	1733	
Surgical engine. Electrical.....	A. W. Browne.....	600,135	Mar. 8	983	219	82	1426
Surgical injector-clamp.....	B. H. Lohman.....	611,038	Sept. 20	1606	368	84	1785
Surgical instrument.....	G. E. Kelling.....	616,672	Dec. 27	2729	634	85	1995
Surgical instrument.....	L. H. Rogers.....	616,259	Dec. 20	1945	452	85	1824
Surgical-instrument case.....	G. Havell.....	600,002	Mar. 1	590	136	82	1325
Surgical lounge.....	S. Stevens.....	601,762	Apr. 5	272	53	83	52
Surgical needle.....	M. H. Lowe.....	604,119	May 17	1640	368	83	968
Surgical or other dressing and pad.....	L. Silverman.....	608,921	Aug. 9	1373	324	84	941
Surgical purposes. Electric light for.....	W. E. Dow.....	608,109	July 26	2919	625	84	621
Surgical table.....	H. G. Bowers.....	602,571	Apr. 19	1689	384	83	350
Suspender-clasp.....	J. V. Janin.....	605,719	June 14	1207	279	83	1602
Suspender spring attachment.....	C. E. Lightner.....	611,262	Sept. 27	2038	470	84	1887
Suspenders.....	J. B. Boos.....	609,329	Aug. 16	2175	513	84	1108
Suspenders.....	R. H. Brauch.....	615,474	Dec. 6	483	112	85	1505
Suspenders.....	H. G. Macwilliam.....	609,286	Aug. 16	2101	498	84	1093
Suspenders.....	E. N. Scofield.....	606,899	July 5	476	102	84	94
Swaging-machine.....	G. H. Hathorn.....	609,201	Aug. 16	1921	457 458	84	1056
Swaging-machine.....	G. H. Hathorn.....	609,202	Aug. 16	1927	458	84	1056
Sweep.....	A. J. Brown.....	601,627	Apr. 5	7	2	83	4
Sweeping-machine.....	C. Walkden.....	612,688	Oct. 18	1945	460	85	397
Swift or reel.....	H. P. Lee.....	612,971	Oct. 25	2459	587	85	516
Swimming appliance.....	S. Stone.....	611,005	Sept. 20	1549	357	84	1775
Swimming appliance.....	J. Stroup.....	613,610	Nov. 1	699	161	85	750
Swing.....	S. Andrews.....	603,311	May 3	114	27	83	624
Swing.....	J. G. J. Davis.....	602,432	Apr. 19	1455	330	83	307
Swing.....	C. B. Gracey and L. R. Watt.....	600,963	Mar. 22	2395	546	82	1727
Swing.....	G. M. Lease.....	597,991	Jan. 25	2650	619	82	564
Swing.....	J. H. Pouncy.....	603,152	Apr. 26	2708	615	83	560
Swing.....	P. Schneider.....	596,722	Jan. 4	475	109	82	92
Swing. Baby.....	D. Zerfing.....	597,047	Jan. 11	1035	244	82	217
Swing or rocker. Aquatic.....	J. F. Bredow.....	598,900	Feb. 15	1408	338 339	82	903
Swing. Portable.....	W. A. Chesterman.....	604,966	May 31	3154	725 726	83	1296
Swing. Reclining.....	W. E. Elliott.....	602,065	Apr. 12	824	178 179	83	167
Swing. Wheel.....	L. C. Lewellyn.....	598,052	Jan. 25	2746	640	82	583
Swinging gate.....	W. P. Davis.....	604,110	May 17	1625	365 366	83	966
Swinging gate.....	H. E. Koch.....	614,011	Nov. 8	1379	316	85	902
Switch:							
See Automatic switch. Electric snap-switch.							
Automatic-lever switch. Electric time-switch.							
Automatic-locking switch. Electrically - controlled switch.							
Circuit-breaking switch. Frogless switch.							
Clock-controlled switch. Lamp-switch.							
Electric switch. Magnetic switch.							
Electric-cable switch. Overhead switch.							
Electric-circuit switch. Pneumatic-tube switch.							
Electric-circuit reg-ulating-switch. Potential-switch.							
Electric-light switch. Telephone gravity-switch.							
Electric-line switch. Telephone throw-off switch.							
Electric-motor switch. Tramway-switch.							
Electric-motor con-trolling-switch. Trolley-switch.							
Switch.....	O. A. Bissell.....	600,302	Mar. 8	1260	287	82	1479
Switch.....	P. S. Quigley.....	612,273	Oct. 11	1210	289	85	244
Switch and signal connection.....	E. C. Carter.....	599,492	Feb. 22	2495	587	82	1133
Switch and signal mechanism.....	J. Chalmers, Jr.....	606,801	July 5	310	65	84	61
Switch and signal mechanism. Combined.....	C. E. Harris.....	610,809	Sept. 13	1206	277 278	84	1692
Switch and signal rod guide.....	S. H. Stupakoff.....	612,980	Oct. 25	2472	589	85	519
Switch and switch-operating mechanism.....	J. P. Orr and G. H. Fugh.....	609,292	Aug. 16	2111	500 501	84	1095
Switch apparatus. Automatic.....	A. Schlatter.....	611,869	Oct. 4	483	117	85	97
Switchboard. Adjustable.....	H. H. and F. D. Walker.....	597,228	Jan. 11	1399	312	82	275
Switchboard and alarm mechanism.....	J. P. Conway.....	607,343	July 12	1327	283 284	84	274
Switchboard apparatus, signal, and circuit.....	T. C. Wales, Jr., and F. L. Rhodes.....	614,677	Nov. 22	2602	591	85	1163
Switchboard testing apparatus. Multiple.....	C. E. Scribner.....	596,629	Jan. 4	304	67	82	60
Switch-contact.....	M. Guett.....	615,665	Dec. 6	829	192	85	1576
Switch-derailer.....	E. Smyth.....	613,086	Oct. 25	2646	625	85	553
Switch indication-box.....	J. B. Struble.....	612,979	Oct. 25	2471	589	85	518
Switch-keeper.....	G. W. Bush.....	608,832	Aug. 9	1219	284	84	910
Switch-lever lock.....	R. S. Bush.....	608,833	Aug. 9	1220	285	84	910
Switch mechanism. Electric clock-controlled.....	R. W. Rollins.....	605,915	June 21	1613	371	83	1697
Switch operating and locking mechanism.....	A. Thuresson.....	607,299	July 12	1246	266	84	257



Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Switch-operating apparatus. Electric-----	C. Hartdegen-----	615,388	Dec. 6	324	76	85	1475
Switch-operating device-----	G. B. Barron-----	606,499	June 28	2716	625 626	83	1928
Switch-operating device-----	L. J. Bennett-----	611,193	Sept. 20	1888	436	84	1840
Switch-operating device. Electric-----	J. H. Cary-----	607,830	July 26	2407	511	84	521
Switch-operating machine. Automatic-----	J. H. Spangler-----	607,893	July 26	2539	538	84	545
Switch-operating mechanism-----	C. W. Yerbury-----	599,580	Feb. 22	2650	621	82	1163
Switch-operating mechanism. Electromechanical-----	C. W. Squires-----	597,472	Jan. 18	1765	409	82	377
Switch-stand-----	J. F. Gaylord-----	614,459	Nov. 22	2207	507	85	1093
Switch-stand-----	J. G. Sorenson-----	609,473	Aug. 23	2437	571	84	1176
Switch stand and lock-----	J. G. Sorenson-----	598,751	Feb. 8	1170	281	82	841
Switch-stands, &c. Base for-----	E. C. Mathews-----	610,684	Sept. 13	976	226	84	1646
Switch throwing and locking apparatus-----	E. P. Owen-----	604,782	May 31	2855	653	83	1238
Switch-throwing mechanism. Pneumatic-----	G. R. Bartholomew-----	605,691	June 14	1162	268 269	83	1594
Switches. Actuator for tramway-----	G. F. McKay-----	601,271	Mar. 29	2954	668	82	1862
Switching and telephone system. Automatic-----	L. G. Nilson-----	611,974	Oct. 4	656	158 159	85	128
Switching device and circuit arrangement for electrically-propelled vehicles.	E. B. W. Reichel-----	605,013	May 31	3233	744	83	1312
Switching mechanism-----	G. W. Singleton-----	612,063	Oct. 11	842	205 206	85	175
Swivel connection-----	C. Anderson-----	609,383	Aug. 16	2258	534	84	1124
Swivel connection. Right-angle-----	J. H. Goss-----	608,852	Aug. 9	1259	293	84	918
Sword. Pistol-----	B. Reyes-----	616,356	Dec. 20	2128	495	85	1861
Sword-slinging hook-----	J. Pettibone-----	603,538	May 3	551	121	83	707
Symbols. Holder for designating-----	G. J. Blatter-----	615,341	Dec. 6	208	51	85	1453
Synchronizing. Method of and means for-----	M. Hutin and M. Leblanc-----	613,206	Oct. 25	2847	671 672	85	593
Syringe-----	H. E. Cook-----	605,052	May 31	3305	759	83	1325
Syringe-----	E. Fournier-----	605,476	June 14	773	178	83	1522
Syringe-----	J. Gray-----	604,147	May 17	1690	380	83	978
Syringe-----	W. S. Kail-----	609,353	Aug. 16	2213	523	84	1115
Syringe-----	W. L. Whittington-----	604,645	May 24	2608	596	83	1172
Syringe and vaporizer. Continuous hot-air-----	M. L. Cooper-----	612,158	Oct. 11	1011	243	85	207
Syringe. Expanding-arm-----	P. Grabler-----	615,697	Dec. 13	885	205	85	1599
Syringe. Fountain-----	F. C. Ferguson-----	605,178	June 7	215	53	83	1391
Syringe. Hypodermic-----	S. W. Robinson and H. J. Detmers-----	600,803	Mar. 15	2129	486	82	1664
Syringe. Hypodermic-----	B. T. Winchester-----	609,982	Aug. 30	3355	779	84	1367
Syringe-nozzle-----	F. King-----	609,280	Aug. 16	2091	496	84	1091
Syringe-tube-----	C. E. Longden-----	611,454	Sept. 27	2416	554	84	1957
Syringe. Vaginal-----	Z. L. Hayden-----	609,432	Aug. 23	2353	555	84	1161
Syringe. Vaginal-----	A. F. Henry-----	602,751	Apr. 19	2006	454	83	410
Syringe. Vaginal-----	A. E. Magoris-----	597,323	Jan. 11	1489	348	82	307
Syringe. Vaginal-----	E. Seibert-----	605,682	June 14	1146	266	83	1591
Syringe vaginal tube-----	R. Parker-----	613,391	Nov. 1	318	73	85	677
Table-----							
See Adjustable table. Game-table.							
Adjustable and extension table. Invalid-table.							
Adjustable folding. Ironing-table.							
reading, and work table. Kitchen-table.							
Billiard-table. Kitchen-cabinet table.							
Brick-cutting table. Physician's table.							
Chart-table. Pool-table.							
Dining-table. Pool and billiard table.							
Drawing-table. Self-leveling table.							
Extension-table. Skittle-table.							
Extension banquet-table. Study-table.							
Folding table. Surgical table.							
Folding or collapsible table. Veterinary operating-table.							
Whist-table.							
Table-----	K. Abel-----	609,765	Aug. 30	2955	691	84	1289
Table-----	G. Bähr-----	600,942	Mar. 22	2366	537	82	1722
Table-----	G. W. Comee-----	598,077	Feb. 1	14	4	82	605
Table-----	C. B. and L. B. Dennis-----	616,296	Dec. 20	2015	469	85	1839
Table-----	W. M. Grace-----	611,117	Sept. 20	1760	403	84	1815
Table-----	A. N. Heine and G. A. Nonweiler-----	604,322	May 17	2015	451	83	1041
Table-----	B. M. Hirsh-----	606,142	June 21	2050	469 470	83	1777
Table-----	G. J. Klingler-----	599,243	Feb. 15	1991	473	82	1013
Table-----	H. Korell-----	604,766	May 31	2832	649	83	1233
Table and bed. Combination-----	C. E. Lindh-----	609,763	Aug. 23	2948	690	84	1274
Table and drapery-holder-----	R. S. Ganoung-----	610,441	Sept. 6	562	124	84	1546
Table and game-counter. Combined-----	D. R. Cutler-----	601,637	Apr. 5	25	5	83	7
Table attachment-----	S. H. Wilson-----	597,755	Jan. 25	2236	520	82	485
Table attachment for chairs or beds-----	F. T. Heatly-----	605,100	June 7	59	18	83	1364
Table-cloth supporter-----	A. R. Bishop-----	606,267	June 28	2303	533	83	1847
Table-fastener-----	J. Campbell-----	597,537	Jan. 18	1866	432	82	396
Table leg. Billiard, pool, or other-----	A. F. Lamoureux-----	611,260	Sept. 27	2031	469	84	1886
Tables, &c. Device for leveling-----	J. W. Roche-----	600,235	Mar. 8	1146	261	82	1459
Tables. Revolving centerpiece for dining-----	W. H. Pease-----	611,739	Oct. 4	262	63	85	54
Tables. Supporting device for movable parts of-----	G. W. Bent-----	596,975	Jan. 11	910	214 215	82	194
Tableware. Flat metal-----	G. H. Brabrook-----	606,183	June 28	2123	487	83	1809
Tablet-----	A. R. Fritz-----	596,583	Jan. 4	217	48	82	43
Tablet and note-book. Writing-----	E. W. Hill-----	606,718	July 5	152	33	84	31
Tablet-machine-----	J. Cornelius-----	603,231	Apr. 26	2837	647	83	584
Tablet-machine-----	W. Freck-----	599,601	Feb. 22	2690	629 630	82	1170
Tablet. Manifold-writing-----	R. Aucock-----	601,219	Mar. 22	2833	647	82	1810
Tablet. Writing-----	W. H. Griffin-----	598,368	Feb. 1	514	124	82	699
Tablets, pills, &c. Machine for making-----	C. W. Fox, J. G. Blount, and B. J. Noyes-----	597,110	Jan. 11	1149	271	82	240
Tack-claw-----	M. Henderson-----	598,306	Feb. 1	418	99	82	681



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tackle-block	J. T. Donohue	599,122	Feb. 15	1790	427	82	977
Tack-driver	C. W. Eader	603,626	May 10	710	158	83	755
Tack-driver	G. W. Hobbs	613,569	Nov. 1	631	146	85	736
Tack-driver. Hand	J. H. Ferguson	602,068	Apr. 12	830	180	83	168
Tack-driver. Magnetic	J. Nazel	608,555	Aug. 2	687	156	84	791
Tack-driving apparatus	A. E. Stirckler	606,596	June 28	2899	670	83	1963
Tack-driving implement	W. T. Hoofnagle	612,040	Oct. 11	799	197	85	167
Tack-driving machine. Hand	E. F. Grandy	609,426	Aug. 23	2348	553	84	1160
Tack-holder	F. W. Songer	602,146	Apr. 12	971	212	83	195
Tag	G. L. Reenstierna	615,637	Dec. 6	781	181	85	1567
Tag-clasp	S. Dancyger	600,140	Mar. 8	995	222	82	1429
Tag-fastener	J. B. Richards	603,365	May 3	205	47	83	641
Tag. Umbrella name-and-address	G. S. Guy	596,873	Jan. 4	730	171	82	142
Tags to fabrics. Machine for attaching	W. G. Metcalf	607,119	July 12	910	197	84	195
Talking-machine	L. F. Douglass	613,670	Nov. 8	787	180	85	787
Tamping-machine	G. Smedeman	602,112	Apr. 12	904	196	83	183
Tanbark-leaching apparatus	C. Iredell	602,331	Apr. 12	1285	285	83	259
Tandem	H. M. Hunt	598,872	Feb. 8	1358	327	82	878
Tank:							
See Animal-dipping tank.	Rubber-cement tank.						
Flushing-tank.	Sheet-metal tank.						
Measuring-tank.	Storage-tank.						
Oil-tank.	Supply-tank.						
Oil-wagon tank.	Water-tank.						
Pressure-apparatus tank.	Water-closet tank.						
Tank-heater	A. Duis	616,185	Dec. 20	1804	417	85	1795
Tank-heater	W. R. Dunkel	613,837	Nov. 8	1093	249	85	845
Tank-heater	M. T. Lowe	596,892	Jan. 4	750	177	82	147
Tank-heater	L. Phelps	610,561	Sept. 13	784	178	84	1605
Tank-heater	G. Schneider and W. H. Hill	609,949	Aug. 30	3281	765	84	1353
Tannage liquors. Recovering spent	H. J. Krebs	613,157	Oct. 25	2748	85	85	573
Tannate and making same. Oresin	H. Reinhardt	615,307	Dec. 6	150	85	85	1442
Tanner's beam	J. M. Woodling	613,483	Nov. 1	500	112	85	711
Tannin. Formaldehyde	E. H. C. Dürkopf	598,914	Feb. 15	1436	82	82	909
Tanning	D. M. Easton	604,739	May 31	2788	638	83	1225
Tanning hides or skins	J. H. Curling	615,969	Dec. 13	1365	320	85	1692
Tanning hides or skins of animals	G. D. Burton	614,929	Nov. 29	3067	704	85	1271
Tanning. Preparing hides for	G. Popp and H. Becker	607,549	July 19	1883	84	84	404
Tanning. Process of and apparatus for electrolytic	E. Davis and H. R. Mustard	603,263	May 3	36	10	83	608
Tanning-vat elevator	J. H. Burns	611,352	Sept. 27	2211	511	84	1919
Tap. Barrel	J. C. F. Reimold	611,276	Sept. 27	2076	477	84	1895
Tap. Barrel	J. Watkins	608,087	July 26	2887	618	84	615
Tap. Barrel or cask	R. F. Stahl	600,501	Mar. 8	1623	371	82	1548
Tap. Draw-off locking	S. Myer and H. W. Joyce	615,090	Nov. 29	3389	776	85	1332
Tap. Expanding	R. W. Keilholtz	614,395	Nov. 15	2086	480	85	1056
Tap-wrench	H. Wiedmann	597,533	Jan. 18	1857	431	82	395
Tappet-cam coupling	T. J. Barbour	599,824	Mar. 1	287	64	82	1267
Tapping apparatus	A. Berger and H. Hildenbrand	604,596	May 24	2526	575	83	1156
Tapping apparatus	J. N. Knapp	602,510	Apr. 19	1586	363	83	331
Tapping device. Beer-barrel	W. T. Fennan	601,749	Apr. 5	246	49	83	47
Tapping implement. Beer	A. Kopp	603,278	May 3	61	15	83	613
Tapping-machine	H. Mueller	611,387	Sept. 27	2295	530	84	1934
Tapping-machine	H. A. Tuttle	610,208	Sept. 6	101	21	84	1460
Tape or fabric. Stiffening	E. K. Warren	611,298	Sept. 27	2115	487	84	1902
Target	W. F. Hochspeier	605,314	June 7	490	109	83	1445
Target	G. D. Magini, S. Folli, and E. Antico	606,807	July 5	327	68, 69	84	66
Target	T. Wrench	597,795	Jan. 25	2321	541	82	500
Target. Panoramic	C. Dickenson	613,855	Nov. 8	1125	257	85	851
Tawing hides or skins, &c.	H. Dannenbaum	613,898	Nov. 8	1199	85	85	865
Tea-cutting mill	C. H. Bartlett	610,019	Aug. 30	3419	792	84	1380
Tea digestible. Rendering	F. Davis	613,027	Oct. 25	2540	85	85	532
Tea-mixing apparatus	C. H. Bartlett	610,018	Aug. 30	3418	791	84	1379
Tea-mixing apparatus	C. H. Bartlett	613,552	Nov. 1	601	138	85	730
Tea or coffee, &c. Attachment for tops of vessels used in making	A. J. Blackwood	608,641	Aug. 9	855	197	84	843
Tea or coffee pot	E. E. Crook	600,139	Mar. 8	993	222	82	1428
Tea or coffee pot	E. E. Crook	613,251	Nov. 1	44	11	85	625
Tea or coffee pot	L. L. Dick	597,574	Jan. 18	1928	449	82	410
Tea or coffee pot	E. M. McDougall	612,750	Oct. 18	2053	487	85	417
Tea or coffee pot handle	E. B. Manning and M. Seips	599,986	Mar. 1	566	131	82	1320
Tea-packing machine	A. H. Canning	604,721	May 31	2763	632	83	1220
Teaching arithmetic. Apparatus for	A. R. Breinl	604,963	May 31	3151	725	83	1295
Teeth. Construction of intermeshing	W. J. Perkins	598,436	Feb. 1	634	156	82	724
Teeth-regulator	M. A. Knapp	597,582	Jan. 18	1941	451	82	412
Telautograph	L. O. McPherson	610,274	Sept. 6	237	53, 54	84	1488
Telegram-transmitter	E. Porter	610,278	Sept. 6	264	56	84	1493
Telegraph	L. W. Hildburgh	607,239	July 12	1142	244	84	236
Telegraph-cable	J. J. Hall	600,073	Mar. 1	814	187	82	1374
Telegraph-cables. Apparatus for joining	H. Menier	604,258	May 17	1890	423	83	1016
Telegraph instrument	J. L. Cutler	606,449	June 28	2639	607	83	1913
Telegraph-key	F. E. Lewis	611,919	Oct. 4	563	136	85	111
Telegraph-keys. Pneumatic attachment for	W. J. Lieb	604,770	May 31	2837	649	83	1234
Telegraph-pole arm	L. Anderson	600,397	Mar. 8	1412	323	82	1508
Telegraph. Printing	B. A. Brooks	606,329	June 28	2412	559	83	1868
Telegraph. Printing	A. Wirsching	613,348	Nov. 1	231	52, 53	85	661
Telegraph-repeater	F. W. Cole	616,222	Dec. 20	1869	432	85	1808



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Telegraph-repeater .....	H. P. Donnelly .....	608,846	Aug. 9	1251	291	84	917
Telegraph. Signal .....	C. V. Boughton .....	597,536	Jan. 18	1861	431 432	82	396
Telegraph system. Printing .....	J. Burry .....	601,768	Apr. 5	278	55	83	54
Telegraph-tape .....	F. Atherton .....	610,339	Sept. 6	382	81	84	1513
Telegraphic-paper-punching machine .....	G. M. Gibson .....	606,658	July 5	38	9	84	9
Telegraphic signal .....	J. Nicolson .....	597,587	Jan. 18	1949	453	82	414
Telegraphic transmission on cable-lines. Rapid .....	C. L. Davies .....	608,389	Aug. 2	395	87	84	734
Telegraphic transmitter. Keyboard .....	S. Price .....	597,689	Jan. 18	2120	496 497	82	445
Telegraphic transmitting and receiving apparatus .....	B. Hoffmann .....	608,333	Aug. 2	302	67	84	716
Telegraphy .....	C. D. and W. A. Royse .....	613,080	Oct. 25	2634	623	85	550
Telegraphy .....	G. V. Trott .....	608,932	Aug. 9	1408	333	84	946
Telegraphy. Electric .....	O. J. Lodge .....	609,154	Aug. 16	1844	438 439	84	1041
Telemeter or range-finder .....	W. L. Wyllie .....	609,256	Aug. 16	2052	487	84	1083
Telephone .....	T. F. Ahern .....	601,865	Apr. 5	477	96	83	89
Telephone .....	F. Burger and H. M. Williams .....	615,344	Dec. 6	227	54, 55	85	1458
Telephone .....	W. A. Drysdale .....	610,347	Sept. 6	396	84, 85	84	1516
Telephone .....	S. S. Fisher .....	610,393	Sept. 6	486	106	84	1532
Telephone .....	W. Gray .....	596,496	Jan. 4	55	12	82	14
Telephone .....	G. F. Payne .....	600,990	Mar. 22	2443	558	82	1736
Telephone apparatus .....	F. B. Cook .....	596,806	Jan. 4	617	142	82	119
Telephone apparatus .....	F. B. Cook .....	596,851	Jan. 4	688	159	82	134
Telephone apparatus .....	F. B. Cook .....	598,285	Feb. 1	387	90, 91	82	675
Telephone arm-rest .....	J. R. McKelvey .....	612,172	Oct. 11	1030	248	85	211
Telephone attachment .....	P. J. Böse .....	597,213	Jan. 11	1315	306 307	82	271
Telephone box or cabinet .....	I. Sparks .....	613,533	Nov. 1	572	130	85	724
Telephone-call. Individual .....	T. C. Drake .....	599,322	Feb. 22	2149	510 511	82	1066
Telephone central-station apparatus .....	J. H. West .....	612,219	Oct. 11	1107	266	85	226
Telephone-circuit .....	C. E. Scribner .....	597,786	Jan. 25	2301	536	82	496
Telephone circuit and apparatus .....	M. G. Kellogg .....	605,580	June 14	943	220 221	83	1555
Telephone-circuit switch .....	F. B. Cook .....	596,852	Jan. 4	691	159	82	134
Telephone coin-controlled apparatus .....	W. Gray .....	597,556	Jan. 18	1894	439	82	403
Telephone-exchange .....	F. A. Lundquist .....	606,764	July 5	248	52	84	50
Telephone-exchange. Automatic .....	W. Decker .....	604,373	May 24	2119	476	83	1081
Telephone-exchange. Automatic .....	F. A. Lundquist, J. and C. J. Erickson .....	616,714	Dec. 27	2809	651 652	85	2011
Telephone-exchange calling device .....	A. E. Keith, J. and C. J. Erickson .....	597,062	Jan. 11	1060	249	82	223
Telephone-exchange mechanism .....	H. P. Snow .....	612,681	Oct. 18	1932	457 458	85	394
Telephone-exchange system .....	W. W. Dean .....	597,052	Jan. 11	1041	246	82	218
Telephone-exchange system .....	W. W. Dean .....	597,053	Jan. 11	1045	246	82	220
Telephone-exchange system .....	W. W. Dean .....	606,162	June 21	2081	479	83	1783
Telephone-exchange system .....	C. S. Heilman .....	613,036	Oct. 25	2552	607	85	534
Telephone-exchange system .....	W. E. M. Jackson .....	614,207	Nov. 15	1717	394 395	85	989
Telephone gravity-switch .....	C. T. Mason .....	616,718	Dec. 27	2825	654	85	2015
Telephone-holder .....	J. T. Moore .....	605,294	June 7	455	101	83	1439
Telephone-line annunciator .....	C. E. Scribner .....	596,627	Jan. 4	300	66	82	59
Telephone-lock .....	R. H. Allen .....	601,786	Apr. 5	316	62	83	60
Telephone. Long-distance .....	P. de Kilduchevsky .....	607,801	July 19	2345	494 495	84	490
Telephone pay-station .....	W. Gray .....	612,330	Oct. 11	1208	316	85	262
Telephone pay-station. Coin-controlled .....	W. Gray .....	598,610	Feb. 8	926	222	82	797
Telephone-receiver .....	P. C. Burns .....	605,594	June 14	973	225	83	1559
Telephone repeater or relay .....	J. S. Stone .....	609,374	Aug. 16	2244	531	84	1121
Telephone signal system .....	W. A. Stilwell and A. Barneck .....	604,434	May 24	2228	499 500 352	83	1102
Telephone-switchboard .....	T. F. Ahern .....	616,046	Dec. 13	1507	353 354 354	85	1720
Telephone-switchboard apparatus .....	C. F. Dunderdale .....	599,553	Feb. 22	2599	609 610	82	1153
Telephone-switchboard apparatus .....	C. E. Scribner .....	596,630	Jan. 4	306	67	82	61
Telephone-switchboard apparatus .....	C. E. Scribner .....	597,785	Jan. 25	2298	536	82	496
Telephone-switchboard apparatus .....	C. E. Scribner .....	597,787	Jan. 25	2303	537	82	497
Telephone-switchboard cord-weight .....	F. C. Hughes .....	605,671	June 14	1129	261	83	1588
Telephone-switchboard plug .....	J. Taylor .....	604,094	May 17	1593	358	83	959
Telephone-switchboard spring-jack .....	C. E. Scribner .....	596,626	Jan. 4	298	65, 66	82	59
Telephone-switchboard system .....	F. C. Hughes .....	605,670	June 14	1124	260 261	83	1587
Telephone-switchboards. Automatic apparatus for .....	J. H. West .....	605,659	June 14	1103	254	83	1582
Telephone-switchboards. Plug and spring-jack for .....	C. E. Scribner .....	596,625	Jan. 4	295	65	82	59
Telephone-switchboards. Supervisory signal for .....	F. R. McBerty .....	596,609	Jan. 4	267	59	82	53
Telephone-switchboards. Supervisory signal for .....	C. E. Scribner .....	596,628	Jan. 4	302	66	82	60
Telephone switch-plug .....	F. B. Cook .....	596,850	Jan. 4	687	158	82	133
Telephone system .....	C. A. Barron, R. T. Reid, and J. L. McDonnell .....	598,172	Feb. 1	170	40, 41	82	635
Telephone system .....	W. W. Dean .....	597,054	Jan. 11	1048	247	82	220
Telephone system .....	W. W. Dean .....	610,704	Sept. 13	1008	234 235	84	1653
Telephone system .....	B. R. Dodge .....	606,803	July 5	322	67	84	64
Telephone system .....	C. E. Egan, B. L. Lawton, and E. C. Wilcox .....	609,229	Aug. 16	1992	473	84	1072
Telephone system .....	W. A. Gustafson .....	606,285	June 28	2331	540	83	1852
Telephone system .....	E. W. Ham .....	605,097	June 7	53	16, 17	83	1362
Telephone system .....	R. T. Reid and J. L. McDonnell .....	598,183	Feb. 1	194	45	82	639
Telephone system .....	R. T. Reid and J. L. McDonnell .....	605,341	June 7	546	122	83	1457
Telephone system .....	G. Ritter .....	611,581	Sept. 27	2652	611 612	84	2002
Telephone system .....	A. F. Swan .....	609,173	Aug. 16	1879	447	84	1047
Telephone system for houses. Electric .....	L. Plaut .....	608,076	July 26	2867	613	84	611



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Telephone systems. Signaling apparatus for .....	F. J. Holmes .....	596,509	Jan. 4	80	18, 19	82	18
Telephone throw-off switch .....	N. Fallek .....	603,681	May 10	801	177	83	773
Telephone toll-collecting device .....	C. E. Scribner .....	599,801	Mar. 1	214	52	82	1256
Telephone-transmitter .....	D. A. Fleming .....	596,808	Jan. 4	622	143	82	120
Telephone-transmitter .....	G. F. Payne and W. D. Gharky .....	600,991	Mar. 22	2446	558	82	1737
Telephone-transmitter .....	F. A. Ray .....	605,913	June 21	1610	371	83	1697
Telephone-transmitter .....	J. H. Rogers .....	599,867	Mar. 1	369	82	82	1282
Telephone-transmitter .....	H. E. Shreeve .....	602,174	Apr. 12	1023	224	83	206
Telephone-transmitter .....	J. H. Spencer and M. S. Keyes .....	596,834	Jan. 4	667	154	82	129
Telephone-transmitter .....	W. E. Sundberg .....	605,882	June 14	1431	328	83	1644
Telephone-transmitter arm and its attachment .....	W. J. Barr .....	608,504	Aug. 2	593	132	84	773
Telephone trunk-lines. Signaling system for .....	F. R. McBerty .....	596,610	Jan. 4	269	59	82	54
Telephonic circuits. Means for preventing disturbances in .....	O. T. Bláthy and K. de Kandó .....	606,912	July 5	494	108	84	98
Telephonic conversations. Apparatus for stating time and number of .....	E. Kosanke, C. Fuhr, and B. Krausse .....	597,003	Jan. 11	958	227	82	203
Telephonic installation .....	G. Ritter .....	597,782	Jan. 25	2289	535	82	494
Telephonic measured-service system .....	W. W. Dean .....	609,331	Aug. 16	2177	514	84	1108
Telephonic microphone .....	W. D. Gharky .....	614,946	Nov. 29	3117	715	85	1283
Telephonic, or telegraphic instruments. Binding-post for electrical, .....	J. A. Williams .....	616,755	Dec. 27	2875	666	85	2025
Telephonic transmitter .....	T. F. Ahern .....	606,852	July 5	408	86	84	81
Telephony and telegraphy. Multiple .....	R. Pfund .....	604,499	May 24	2356	534	83	1124
Telescope-bag .....	G. D. Hutchison .....	598,095	Feb. 1	45	11	82	612
Telescopic case or traveling-bag. Enlargeable .....	K. Kruppa and O. Lehrer .....	606,221	June 28	2211	508	83	1827
Telescopic clamp .....	G. W. Kortright .....	605,447	June 7	735	166	83	1494
Telescopic structure .....	T. W. McKenzie .....	612,630	Oct. 18	1850	438	85	378
Tellurian .....	A. M. Baker .....	610,317	Sept. 6	337	72, 73	84	1506
Tellurian .....	C. J. Boehm .....	613,111	Oct. 25	2678	633 634	85	559
Tellurian. Calendar .....	G. B. Nichols .....	615,098	Nov. 29	3405	781	85	1335
Temperature-controlling apparatus .....	R. S. Pease .....	604,077	May 17	1564	350	83	953
Temperature-regulating apparatus .....	A. Roesch .....	616,142	Dec. 20	1718	398	85	1776
Temperature-regulating apparatus. Automatic .....	W. B. Loring .....	603,696	May 10	824	182 183	83	778
Temperature-regulator .....	A. Roesch .....	602,107	Apr. 12	896	194	83	181
Temperature-regulator. Automatic .....	A. A. Boss .....	596,955	Jan. 4	871	204 205	82	169
Temperature-regulator. Automatic .....	A. Roesch .....	616,141	Dec. 20	1715	398	85	1776
Temperature-resistance changes. Means for compensating for .....	C. F. Scott .....	606,033	June 21	1844	425	83	1738
Templet. Adjustable stop- .....	J. W. Tripp .....	600,390	Mar. 8	1398	320	82	1506
Tenoning-machine .....	A. Ballantyne .....	611,552	Sept. 27	2592	558 559	84	1991
Tension device .....	H. P. Richards .....	602,522	Apr. 19	1608	368	83	336
Tent .....	H. O. Flipper .....	615,544	Dec. 6	619	140	85	1532
Tent .....	T. C. Phelps .....	602,587	Apr. 19	1716	390 391	83	354
Tent and clothing-roll combined. Military shelter .....	C. W. Williams .....	596,767	Jan. 4	554	127	82	106
Tent-fastening .....	E. C. Cook .....	601,805	Apr. 5	343	70	83	64
Tent. Folding .....	A. D. Lloyd .....	609,553	Aug. 23	2574	603	84	1202
Tent. Portable folding .....	E. N. Laird .....	607,933	July 26	2610	554	84	558
Tent-slip .....	E. Zusi .....	612,636	Oct. 18	1858	440	85	380
Tenter-machine clip .....	F. I. Dana .....	609,575	Aug. 23	2615	612	84	1210
Tentering-machine .....	F. I. Dana .....	609,574	Aug. 23	2613	611 612	84	1209
Tentering-machine .....	C. J. Gadd .....	606,780	July 5	280	53	84	55
Tentering-machine clip .....	F. I. Dana .....	597,162	Jan. 11	1232	290	82	256
Tentering-machine cloth-carrier chain .....	A. W. C. Arnold .....	616,390	Dec. 20	2183	510	85	1871
Testing apparatus .....	L. C. Christie .....	603,874	May 10	1152	259	83	840
Testing apparatus .....	W. C. McKeown .....	616,627	Dec. 27	2622	608	85	1974
Testing-cap and clamp .....	P. J. Cahill .....	602,281	Apr. 12	1204	264	83	242
Testing-trap .....	D. Buist and E. Breakell .....	605,387	June 7	632	141	83	1473
Tether .....	J. Day .....	601,952	Apr. 5	648	136	83	122
Textile-roller clearer .....	R. S. Matteson .....	602,626	Apr. 19	1789	408	83	368
Thatching .....	W. H. Johnston .....	614,478	Nov. 22	2250	515	85	1101
Thawing apparatus .....	W. E. Harris .....	599,606	Feb. 22	2706	633	82	1174
Thawing apparatus .....	R. B. Ormiston .....	605,556	June 14	897	209	83	1546
Thawing apparatus .....	D. Phillips .....	604,264	May 17	1907	427	83	1020
Thawing-machine or device for producing hot-air blasts. .....	H. K. Greenleaf .....	601,135	Mar. 22	2675	612	82	1781
Theater-chair hat-support .....	H. G. Cozzino .....	597,266	Jan. 11	1395	326	82	287
Theater. Portable .....	F. W. Shipman .....	597,890	Jan. 25	2469	577	82	529
Theater-stage. Rotatory .....	S. R. Ellis .....	612,836	Oct. 25	2242	536	85	472
Theatrical appliance .....	L. J. Carter .....	611,054	Sept. 20	1635	373 374	84	1791
Theatrical flying apparatus .....	G. A. O. Conquest .....	612,090	Oct. 11	892	215 216	85	184
Therapeutical apparatus .....	A. V. M. Sprague .....	601,684	Apr. 5	108	21	83	23
Thermal expansion-engine .....	G. A. Marconett .....	611,813	Oct. 4	384	92	85	77
Thermocauter .....	C. F. Dewitt .....	606,380	June 28	2512	583	83	1886
Thermocauter-lancet .....	W. H. Beach .....	615,784	Dec. 13	1040	245	85	1628
Thermometer adjusting device .....	J. H. Herbener .....	612,518	Oct. 18	1622	387	85	336
Thermometer. Clinical .....	F. Cossor .....	613,190	Oct. 25	2801	661	85	585
Thermometer. Incubator- .....	J. L. Nix .....	610,079	Aug. 30	3514	814	84	1399
Thermometer shield. Clinical- .....	J. C. Harrington .....	599,179	Feb. 15	1886	446	82	993
Thermostat .....	I. F. and F. C. Beers .....	615,669	Dec. 13	836	193	85	1589
Thermostat .....	E. Cary .....	614,288	Nov. 15	1881	435	85	1018
Thermostat .....	W. E. Facer .....	613,062	Oct. 25	2607	617	85	546
Thermostat .....	J. F. McElroy .....	610,998	Sept. 20	1537	353	84	1772
Thermostat or draft-regulator .....	M. Cantwell, C. B. and E. C. Wood .....	612,515	Oct. 18	1617	386	85	335
Thill-coupling .....	A. Bixby .....	616,820	Dec. 27	2982	695	85	2047
Thill-coupling .....	C. C. Bradley .....	609,928	Aug. 30	3236	757	84	1344
Thill-coupling .....	C. C. Bradley .....	612,942	Oct. 25	2410	575	85	505
Thill-coupling .....	G. H. Brinser .....	596,474	Jan. 4	14	4	82	5
Thill-coupling .....	E. Brush .....	609,181	Aug. 16	1890	450	84	1049



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Thill-coupling	D. W. Clark	609,958	Aug. 30	3304	770	84	1358
Thill-coupling	A. L. Crandall	602,307	Apr. 12	1249	274	83	251
Thill-coupling	A. L. Crandall	609,663	Aug. 23	2799	652	84	1245
Thill-coupling	J. Edgar	605,666	June 14	1118	258	83	1585
Thill-coupling	S. Gress	615,269	Dec. 6	90	24	85	1431
Thill-coupling	S. Grim	600,780	Mar. 15	2091	419	82	1657
Thill-coupling	J. W. Howell	608,680	Aug. 9	923	212	84	857
Thill-coupling	E. G. Hoover	610,185	Sept. 6	64	13	84	1452
Thill-coupling	C. N. Hunter	615,990	Dec. 13	1407	329	85	1700
Thill-coupling	W. S. James	611,320	Sept. 27	2153	498	84	1909
Thill-coupling	F. A. and P. H. Kehm	601,796	Apr. 5	332	67	83	63
Thill-coupling	T. E. Kellogg	604,494	May 24	2349	533	83	1122
Thill-coupling	T. P. Kersey and E. W. Leach	602,989	Apr. 26	2429	554	83	596
Thill-coupling	M. Knupp	609,510	Aug. 23	2507	586	84	1189
Thill-coupling	G. P. La Poer and C. E. Walker	606,973	July 5	582	128	84	115
Thill-coupling	H. S. Leach	600,430	Mar. 8	1463	331	82	1518
Thill-coupling	L. E. Macomber	611,135	Sept. 20	1794	413	84	1822
Thill-coupling	R. D. Marshall and W. M. Curry	612,859	Oct. 25	2278	543	85	479
Thill-coupling	R. G. Matthews	613,584	Nov. 1	652	151	85	739
Thill-coupling	W. T. McGuire	611,267	Sept. 27	2054	473	81	1830
Thill-coupling	P. W. Morehead	612,863	Oct. 25	2283	544	85	480
Thill-coupling	H. A. Moyer and C. J. Graf	610,768	Sept. 13	1128	259	84	1676
Thill-coupling	S. A. Owings	614,127	Nov. 15	1588	364	85	963
Thill-coupling	W. Pearce	611,140	Sept. 20	1803	415	84	1823
Thill-coupling	J. J. Phillips	603,966	May 10	1302	297	83	869
Thill-coupling	C. F. Sanders and J. T. Swearingen	613,426	Nov. 1	395	90	85	691
Thill-coupling	W. E. Sherwood	607,772	July 19	2266	478	84	475
Thill-coupling	C. J. Shetterly	613,849	Nov. 8	1114	253	85	849
Thill-coupling	H. Sievers	607,197	July 12	1051	227	84	220
Thill-coupling	S. Speed	601,175	Mar. 22	2749	631	82	1795
Thill-coupling	E. Storm	608,276	Aug. 2	183	44	84	691
Thill-coupling	E. Storm	608,488	Aug. 2	567	126	84	768
Thill-coupling	C. B. Stough	609,477	Aug. 23	2459	574	84	1181
Thill-coupling	Z. L. Wheeler	602,710	Apr. 19	1945	442	83	399
Thill-coupling	J. A. Yarger	615,378	Dec. 6	303	71	85	1472
Thill-coupling and brake. Combined	W. G. Barnhardt	610,467	Sept. 6	613	137	84	1556
Thill-coupling antirattler	F. P. Johnson	598,376	Feb. 1	525	127	82	701
Thill-coupling antirattler	A. H. Worrest	596,562	Jan. 4	175	40	82	36
Thill-coupling. Antirattling	W. M. Buchnau	599,218	Feb. 15	1948	462	82	1005
Thill-coupling. Antirattling	J. Morgan	608,524	Aug. 2	631	142	84	780
Thill-coupling. Antirattling	W. E. Sherwood	606,307	June 28	2375	519	83	1861
Thill-coupling. Antirattling	G. W. Springer	610,895	Sept. 13	1248	288	84	1701
Thill-coupling. Antirattling	M. C. White	614,193	Nov. 15	1692	389	85	983
Thill-coupling. Antirattling	J. E. Whitney	615,513	Dec. 6	559	128	85	1520
Thill coupling-bolt	A. G. May	603,196	Apr. 26	2777	632	83	572
Thill-coupling bolt	O. J. Jones	612,731	Oct. 18	2021	471	85	411
Thill-coupling pin and antirattler combined	C. Johnson	612,042	Oct. 11	802	198	85	168
Thill-couplings. Antirattler for	H. Breiding	612,306	Oct. 11	1269	307	85	255
Thill-couplings. Antirattling nut-locking device for	C. T. Redfield	606,085	June 21	1950	449	83	1758
Thill-iron	J. Howell	613,996	Nov. 8	1355	308	85	897
Thill or pole coupling	J. M. Bryant	599,382	Feb. 22	2272	537	82	1090
Thill or pole coupling. Vehicle	W. L. Umstead	611,665	Oct. 4	131	32	85	28
Thill or tongue coupling for vehicles	J. M. Day	611,957	Oct. 4	627	152	85	123
Thill-support	W. H. Avey	597,094	Jan. 11	1128	266	82	236
Thill-support	B. E. Holly	615,066	Nov. 29	3351	768	85	1325
Thill-support and antirattler. Combined	J. Shurter	603,776	May 10	960	215	83	803
Thill. Vehicle	H. W. Oldaker	614,495	Nov. 22	2282	522	85	1106
Thimble-gage	J. F. Simons	616,151	Dec. 20	1739	401	85	1779
Thimble thread-cutting attachment	C. K. Downs	610,264	Sept. 6	221	50	84	1485
Thimble thread-knife	A. M. Hunter and L. Illmer, Jr	614,389	Nov. 15	2072	477	85	1055
Thread-cutter	E. D. Jones	599,238	Feb. 15	1983	471	82	1012
Thread-cutting tool	J. E. Goddard	613,264	Nov. 1	67	16	85	629
Thread-guide	P. M. Libby	609,282	Aug. 16	2097	497	84	1092
Thread-guide	J. H. Northrop	605,062	May 31	3319	762	83	1328
Thread-holder	E. C. Seward	612,180	Oct. 11	1041	250	85	213
Thread-holder	S. G. Sutphin	616,814	Dec. 27	2975	693	85	2046
Thread holder and cutter for spools	M. A. L. Thomas	603,389	May 3	246	55	83	648
Thread holder. Skein-	J. Selcer	613,324	Nov. 1	184	40	85	652
Thread or yarn guide	H. W. Bracken	604,599	May 24	2530	576	83	1156
Thread-package	I. Dimock	607,587	July 19	1954	406	84	416
Thread-package	F. E. Hall	597,165	Jan. 11	1236	291	82	256
Thread-protector	J. Schirra	600,892	Mar. 22	2285	521	82	1707
Thread-tension device	I. Heer	605,101	June 7	60	18	83	1364
Thread-tension device	W. D. Huse	614,268	Nov. 15	1853	428	85	1012
Threads or yarns of silk, &c. Apparatus for clearing	P. Perret	616,137	Dec. 20	1710	397	85	1775
Threading-machine	A. J. Morse	597,732	Jan. 25	2195	512	82	477
Thresher and cleaner. Pea	L. J. Stilwell	601,026	Mar. 22	2506	570	82	1748
Thresher or rubber binding attachment	G. D. Harder	604,319	May 17	2011	450	83	1040
Thresher. Pea	J. M. Brasington	596,978	Jan. 11	916	216	82	195
Thresher. Pea	F. W. Miller and W. C. Willis	600,794	Mar. 15	2116	483	82	1662
Threshing and separating machine	G. B. Sellers	613,082	Oct. 25	2641	624	85	552
Threshing-cylinder	A. K. and H. S. Porter	612,982	Oct. 25	2398	571	85	503
Threshing-machine	J. Börsum	606,503	June 28	2722	627	83	1929
Threshing-machine	W. H. and J. Butterworth	603,424	May 3	312	71	83	660
Threshing-machine	C. Y. Chatterton	596,573	Jan. 4	199	44, 45	82	39
Threshing-machine	E. G. Clymans	597,458	Jan. 18	1742	403	82	372
Threshing-machine	E. G. Clymans	614,934	Nov. 29	3075	706	85	1273
Threshing-machine	T. S. Culbreath	606,125	June 21	2017	462	83	1771
Threshing-machine	M. P. Hall and D. Heilman	611,903	Oct. 4	540	131	85	107
Threshing-machine	M. H. Nash	605,048	May 31	3296	756	83	1323



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Threshing-machine .....	C. V. Newton .....	613,908	Nov. 8	1211	276	85	868
Threshing-machine .....	L. D. Parmley .....	606,681	July 5	85	18	84	19
Threshing-machine .....	J. A. Volk .....	607,671	July 19	2106	439	84	444
Threshing-machine .....	J. E. Wood .....	612,294	Oct. 11	1249	301	85	252
Threshing-machine band-cutter and feeder .....	F. J. Wood .....	604,281	May 17	1935	433	83	1026
Threshing-machine chutes. Combined hoisting and telescoping apparatus for .....	E. Bennett .....	598,071	Feb. 1	2	1	82	603
Threshing-machine conveyer and elevator .....	F. Dentler .....	611,197	Sept. 20	1891	437	84	1841
Threshing-machine cylinder .....	J. A. Anderson .....	613,654	Nov. 8	764	175	85	783
Threshing-machine feeder .....	W. Stephenson .....	603,978	May 10	1319	302	83	873
Threshing-machine foldable straw-carrier .....	A. E. McMullen .....	605,327	June 7	508	114	83	1449
Threshing-machine grain-feeder and band-cutter .....	F. H. Ackerman .....	597,252	Jan. 11	1377	321	82	283
Threshing-machine grain-elevator .....	F. B. Hayes .....	614,613	Nov. 22	2483	567	85	1142
Threshing-machine grain-saving attachment .....	W. T. Wilkins .....	597,630	Jan. 18	2019	672	82	428
Threshing-machine grain-separating screen .....	C. Closz .....	607,598	July 19	1973	409	84	419
Threshing-machine implement .....	P. P. Stigen .....	616,272	Dec. 20	1972	459	85	1829
Threshing-machine self-feeder .....	G. W. Parsons .....	605,204	June 7	273	63.64	83	1401
Threshing-machine self-feeder .....	A. W. Severance .....	607,138	July 12	945	205	84	201
Threshing-machine self-feeder .....	G. D. Stowe .....	606,597	June 28	2993	671	83	1964
Threshold .....	G. A. Seely .....	596,948	Jan. 4	860	201	82	168
Threshold and weather strip. Combined .....	W. M. Barger .....	600,301	Mar. 8	1258	287	82	1479
Throttle .....	J. P. Geiger .....	603,684	May 10	805	177	83	774
Thrust-block .....	J. Philp .....	601,103	Mar. 22	2624	599	82	1771
Thyroid glands and making same. Product from .....	E. C. C. Stanford .....	616,501	Dec. 27	2411	561	85	494
Ticket-carrier .....	R. N. King .....	612,906	Oct. 25	2357	561	85	494
Ticket-case .....	J. E. Adkins .....	599,821	Mar. 1	282	63	82	1266
Ticket-case .....	E. Ohnstrand .....	614,272	Nov. 15	1858	429	85	1013
Ticket-case .....	N. E. Springsteen .....	605,301	June 7	468	105	83	1440
Ticket-collecting apparatus .....	J. Antomarchi .....	599,159	Feb. 15	1856	439	82	988
Ticket. Continuous mileage .....	J. P. Eastman .....	602,214	Apr. 12	1063	240	83	220
Ticket-holder and advertising medium. Combined .....	A. C. Bragg .....	600,848	Mar. 15	2204	504	82	1678
Ticket holder and register .....	M. Fortuño .....	604,923	May 31	3096	711	83	1284
Ticket rack and register .....	E. C. Hopper and C. F. McLean .....	605,165	June 7	192	49	83	1387
Ticket. Railway .....	F. E. Hodgins and J. F. Young .....	611,736	Oct. 4	258	62	85	53
Ticket. Railway .....	J. Sebastian and B. B. Anderson .....	597,224	Jan. 11	1334	311	82	274
Ticket. Railway .....	J. Sebastian and B. B. Anderson .....	605,655	June 14	1098	253	83	1582
Ticket. Railway transfer .....	W. D. C. Smith .....	601,308	Mar. 29	3028	682	82	1876
Ticket. Transportation .....	S. Lumpkin .....	601,209	Mar. 22	2308	642	82	1806
Tide-motor .....	S. H. Jones .....	616,467	Dec. 27	2330	543	85	1921
Tidal motor .....	J. F. R. Knobloch .....	608,203	Aug. 2	66	17.18	84	668
Tidal power .....	E. Markmann .....	608,783	Aug. 9	1090	251	84	887
Tide and wave motor .....	A. A. Brown .....	603,314	May 3	117	27.28	83	624
Tide-motor .....	S. P. Tomkins .....	609,637	Aug. 23	2759	643	84	1237
Tie:							
See Animal-tie.                      Railway-tie.							
Bale-tie.                              Railway-rail tie.							
Cattle-tie.                            Railway-track tie.							
Cross-tie.                            Sack-tie.							
Necktie.							
Plasterer's steel angle-tie.							
Tie for bales, bundles, &c .....	A. Nichless .....	605,123	June 7	95	25	83	1370
Tie-plate .....	W. Goldie .....	610,179	Sept. 6	50	11	84	1451
Tie-plate .....	A. Morrison .....	607,696	July 19	2147	452	84	451
Tie-plate .....	J. L. Yale .....	596,731	Jan. 4	493	112	82	96
Tie-plate. Gage-adjusting .....	A. B. B. Harris .....	603,563	May 3	587	130	83	714
Tie-plates. Manufacture of .....	A. Morrison .....	616,797	Dec. 27	2950	687	85	2040
Tile .....	L. H. Broome and J. Buckingham .....	599,117	Feb. 15	1785	425	82	976
Tile .....	E. S. Thomas .....	611,763	Oct. 4	293	70	85	60
Tile .....	E. S. Thomas .....	613,333	Nov. 1	198	44	85	655
Tile .....	W. Thomson .....	610,776	Sept. 13	1146	263	84	1680
Tile and arrangement thereof in roofs .....	J. Freund .....	604,035	May 17	1475	330	83	937
Tile and tile-setting .....	C. C. Alexander .....	615,515	Dec. 6	561	128	85	1520
Tile. Building .....	E. E. Van Wie .....	607,812	July 19	2366	502	84	495
Tile. Cement roofing .....	G. Schulze .....	605,654	June 14	1097	252	83	1581
Tile-cutting machine .....	S. G. Brinkman .....	600,856	Mar. 22	2228	507	82	1696
Tile-die .....	H. A. Wheeler .....	616,170	Dec. 20	1771	410	85	1789
Tile flooring .....	J. J. Fields, Jr. .....	615,832	Dec. 13	1115	261	85	1644
Tile-forming mold .....	T. H. Mooney .....	610,686	Sept. 13	978	227	84	1646
Tile molding .....	E. Koehler .....	609,940	Aug. 30	3264	762	84	1349
Tile partition, wall, or ceiling .....	J. Schratwieser .....	611,514	Sept. 27	2521	582	84	1978
Tile. Roofing .....	M. C. Barber .....	599,312	Feb. 22	2132	506	82	1063
Tile. Roofing .....	H. B. Skeele .....	607,489	July 19	1780	370	84	385
Tile. Roofing .....	A. Weil .....	602,889	Apr. 26	2245	510	83	471
Tile. Self-adjustable and reversible .....	F. T. and H. A. Hopkins .....	604,325	May 17	2022	452	83	1042
Tiles and apparatus therefor. Manufacture of .....	W. Hewitt .....	598,781	Feb. 8	1215	295	82	850
Tiles in kilns. Setting .....	H. A. Wheeler .....	614,258	Nov. 15	1837	425	85	1009
Tiles. Machine for manufacturing roofing .....	A. Weil .....	597,447	Jan. 18	1727	399	82	369
Tiles or plane surfaces. Device for decorating .....	G. H. Grundy and G. A. Lingard .....	603,137	Apr. 26	2688	610	83	556
Tiling. Continuous floor .....	A. K. Walla .....	613,099	Oct. 25	2665	630	85	556
Tiling for floors, walls, ceilings, fireplaces, &c .....	C. C. Alexander .....	602,691	Apr. 19	1913	436	83	392
Tilting gate .....	E. C. Compher .....	611,608	Oct. 4	24	6	85	7
Tilting gate .....	W. T. Foster .....	603,444	May 3	348	78	83	667
Timbal. Chromatic .....	G. F. Lyon .....	608,884	Aug. 9	1305	304	84	927
Timber. Composite .....	H. F. Williams .....	598,127	Feb. 1	94	22	82	620
Timber fastener. Draft .....	W. W. Pruett .....	600,931	Mar. 22	2348	533	82	1718
Timber or log buoy .....	H. G. Cady .....	598,978	Feb. 15	1556	369	82	932
Timber-pocket .....	G. S. Marshall .....	607,867	July 26	2494	529	84	526
Time-alarm. Electric .....	H. D. Tenny .....	612,441	Oct. 18	1500	362	85	313



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Time-card receptacle	H. Zuber	609,604	Aug. 23	2672	74	84	1219
Time-detector. Watchman's	J. McCarthy	610,145	Aug. 30	3609	838	84	1419
Time-lock	C. M. Ball	603,935	May 10	1257	286	83	861
Time-lock	J. R. Hazeley	601,341	Mar. 29	3075	694 695	82	1884
Timepiece	J. C. Burke	604,297	May 17	1964	440	83	1031
Timepiece-dial	C. F. Dietz	614,937	Nov. 29	3086	709	85	1275
Timepiece winding mechanism	C. L. Teske	607,144	July 12	955	207 208	84	202
Timepiece winding mechanism	C. L. Teske	607,145	July 12	959	208	84	203
Time-recorder	J. J. Busenbenz	596,691	Jan. 4	413	93, 94	82	82
Time-recorder	J. J. Busenbenz	596,692	Jan. 4	420	95, 96	82	83
Time-recorder	F. W. Cook, Jr.	602,305	Apr. 12	1245	273	83	250
Time-recorder	J. W. Deubner	603,320	May 3	130	31, 32	83	627
Time-recorder	J. H. Gerry	602,286	Apr. 12	1215	267 268	83	244
Time-recorder	S. A. Marker	614,564	Nov. 22	2382	545	85	1125
Time-recorder	L. E. Paddock	610,496	Sept. 6	671	150	84	1567
Time-recorder	E. E. Randolph and H. L. McCoy	609,906	Aug. 30	3201	751	84	1338
Time-recorder. Employee's	F. H. Sells	608,800	Aug. 9	1129	262 263	84	894
Time-recorder. Watchman's	I. A. Hermann	610,756	Sept. 13	1106	252	84	1672
Time-recorder. Workman's	W. L. Bundy	605,159	June 7	184	46, 47	83	1386
Time-recorder. Workman's	J. W. Deübner	600,259	Mar. 8	1192	270 271 272	82	1466
Time-recorder. Workman's	J. W. Deübner	610,169	Sept. 6	15	5, 6	84	1445
Time-recorder. Workman's	J. W. Deübner	610,170	Sept. 6	26	6, 8	84	1447
Time-recorder. Workman's	P. G. Giroud	602,845	Apr. 26	2182	494 495 496 616 617	83	459
Tin and terne plates. Machine for polishing	N. D. Lewis	599,568	Feb. 22	2631	617	82	1159
Tin can. Round	H. C. Campen	606,856	July 5	418	89	84	83
Tin from tin-plate waste. Extracting	J. Neumark	603,200	Apr. 26	2781		83	573
Tin oxid or dross to pure metallic tin. Reducing	J. C. Taliaferro	616,161	Dec. 20	1760		85	1787
Tin-plate-mill attachment	R. W. Hughes	598,784	Feb. 8	1220	296	82	851
Tin-plate. Process of and apparatus for manufacturing	W. Rogers	604,195	May 17	1779	401	83	996
Tin plates. Machine for separating packs of	F. Westwood	609,645	Aug. 23	2772	646	84	1239
Tin plating and polishing machine	N. D. Lewis	597,778	Jan. 25	2281	533	82	493
Tinners' use. Fire-pot for	G. A. Triggs	597,550	Jan. 18	1886	437	82	401
Tinning-machine	J. Monto	613,704	Nov. 8	847	194 195 196 197	85	799
Tippler. Oscillating	J. Rigg	603,048	Apr. 26	2519	572 573	83	522
Tire	W. Aab	605,986	June 21	1756	403	83	1723
Tire	J. C. H. Bagger	616,818	Dec. 27	2979	694	85	2047
Tire	F. W. Brown	613,238	Nov. 1	22	5, 6	85	622
Tire	R. Buchanan	602,994	Apr. 26	2342	534	83	490
Tire	R. Buchanan	602,935	Apr. 26	2343	535	83	490
Tire	H. R. Collins	597,194	Jan. 11	1284	300	82	206
Tire	O. B. Hall	604,750	May 31	2808	642	83	1229
Tire	H. L. Merritt	609,157	Aug. 16	1852	440	84	1042
Tire	M. and T. W. Prior	611,272	Sept. 27	2068	476	84	1893
Tire	C. C. and J. J. Robertson	611,280	Sept. 27	2081	479	84	1896
Tire	A. Ryan	605,917	June 21	1618	372	83	1698
Tire	C. Taylor	601,763	Apr. 5	273	53	83	52
Tire	H. R. Wykert	596,930	Jan. 4	822	195	82	160
Tire. Air-cushioned	C. A. Pratt	599,475	Feb. 22	2459	579	82	1126
Tire air-indicator. Bicycle	W. E. Richards	602,242	Apr. 12	1132	249	83	227
Tire air-valve. Pneumatic	J. Schönnig and M. B. Hansen	610,976	Sept. 20	1494	340	84	1764
Tire and felly. Wheel	T. B. Jeffery	603,956	May 10	1289	294	83	867
Tire and means for attaching same. Elastic	F. W. Morgan	604,067	May 17	1539	346	83	949
Tire and means for manufacturing same. Composite	J. J. Busenbenz	612,767	Oct. 18	2089	495	85	423
Tire and means for securing same in place	W. E. Bruffey	596,475	Jan. 4	15	4	82	6
Tire and repairing same. Pneumatic	C. E. Buckbee	606,271	June 28	2307	531	83	1848
Tire and rim. Elastic	F. Burger	607,824	July 26	2396	508	84	519
Tire and rim for vehicle-wheels. Elastic	C. A. and W. H. Chapman	600,572	Mar. 15	1750	399	82	1591
Tire and rim for wheels	S. C. Davidson	612,023	Oct. 11	771	190	85	161
Tire and rim for wheels. Elastic	J. F. Barlow	612,229	Oct. 11	1122	269	85	229
Tire and rim for wheels. Elastic	A. C. Moore and G. Rodwell	607,695	July 19	2145	451	84	451
Tire and wheel. Bicycle	R. H. Southall	611,715	Oct. 4	222	55	85	46
Tire armor. Pneumatic	R. Faas and H. S. Gray	607,006	July 5	661	143	84	131
Tire armor. Pneumatic	J. M. Freeman	599,497	Feb. 22	2502	590	82	1134
Tire armor. Pneumatic	E. J. Pine	608,075	July 26	2866	613	84	611
Tire. Bicycle	L. Baecker	599,888	Mar. 1	406	90	82	1290
Tire. Bicycle	R. W. Churchill	609,080	Aug. 16	1698	404	84	1016
Tire. Bicycle	W. J. Lanigan	597,777	Jan. 25	2280	532	82	493
Tire. Bicycle	R. Piper	612,054	Oct. 11	826	202	85	172
Tire. Bicycle	J. Reepmaker	602,565	Apr. 19	1677	381	83	348
Tire. Bicycle	J. A. Smith	601,048	Mar. 22	2538	577	82	1754
Tire. Bicycle	J. Toreen	606,604	June 28	2915	675	83	1966
Tire. Bicycle	A. Vreeland	609,254	Aug. 16	2049	486	84	1083
Tire. Bicycle cushion	G. W. Tubbs	609,922	Aug. 30	3228	756	84	1342
Tire-bolt clipper	L. L. Green	598,778	Feb. 8	1211	291	82	849
Tire-bolt wrench	L. C. Wiley	598,831	Feb. 8	1288	311	82	864
Tire bolter and cutter	V. Reynolds	613,722	Nov. 8	857	205	85	806
Tire-bolting machine	J. R. Whitaker	611,540	Sept. 27	2569	592	84	1986
Tire-case buckle	C. Eickmann	607,356	July 12	1347	288	84	278
Tire casings. Device for drawing air-tubes into pneumatic	W. Herrick	602,847	Apr. 26	2188	496	83	460
Tire coupling. Pneumatic	F. Warnock	605,156	June 7	181	45	83	1385



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tire cover. Pneumatic	J. Chase	606,705	July 5	126	28	84	27
Tire cover. Pneumatic	T. B. Jeffery	614,393	Nov. 15	2082	480	85	1056
Tire. Cushion	W. G. Kendall	604,663	May 24	2631	603	83	1177
Tire. Cushion	W. G. Kendall	614,054	Nov. 8	1437	330	85	913
Tire. Cushion	W. G. Kendall	614,055	Nov. 8	1439	331	85	913
Tire. Cushion	J. P. Kunkle	602,907	Apr. 26	2285	521	83	478
Tire. Cushion	E. L. Toy	600,185	Mar. 8	1068	241	82	1443
Tire. Cycle	C. H. and G. Greaves	601,055	Mar. 22	2553	582	82	1758
Tire. Elastic	J. N. Dages	606,378	June 28	2510	583	83	1886
Tire. Elastic	A. Ducasble	596,488	Jan. 4	39	9	82	10
Tire. Elastic	F. E. Hall	604,042	May 17	1490	335	83	940
Tire. Elastic	W. F. Williams	598,043	Jan. 25	2728	637	82	579
Tire. Elastic vehicle	J. B. Forsyth	603,268	May 3	46	12	83	609
Tire. Elastic vehicle	D. A. McKnight	599,516	Feb. 22	2530	505	82	1140
Tire. Elastic wheel	A. L. Cudey	603,726	May 10	874	194	83	787
Tire. Elastic wheel	W. and J. C. Hancock and E. Scholes	605,546	June 14	878	206	83	1542
Tire. Elastic wheel	J. A. Snyder	608,803	Aug. 9	1140	264	84	897
Tire ends. Apparatus for securing bicycle	R. A. Leigh	605,319	June 7	499	111	83	1447
Tire fastener. Pneumatic	J. A. Berger	611,230	Sept. 27	1982	458	84	1877
Tire for bicycles. Armored pneumatic	P. Lenihan	616,121	Dec. 20	1664	389	85	1767
Tire for bicycles or other vehicles. Wheel	S. D. Densmore	613,561	Nov. 1	617	143	85	733
Tire for cycles, &c	C. H. and G. Greaves	605,867	June 21	1519	349	83	1679
Tire for cycles or other vehicles	O. E. Nathansohn	612,264	Oct. 11	1196	287	85	242
Tire for cycles. Pneumatic	W. H. Sewell	609,839	Aug. 30	3092	721	84	1316
Tire for vehicle-wheels. Cushion	F. B. Fagan and E. P. Stoebler	616,833	Dec. 27	3002	699	85	2051
Tire for vehicle-wheels. Cushion	W. G. Kendall	597,612	Jan. 18	1991	464	82	422
Tire for vehicle-wheels. Rubber	J. S. Crowell	609,195	Aug. 16	1914	456	84	1054
Tire for vehicles. Pneumatic	H. Bancroft	611,553	Sept. 27	2595	509	84	1992
Tire for vehicles. Pneumatic	F. B. Griswold	596,701	Jan. 4	437	99	82	86
Tire for wheels. Pneumatic	C. H. Taylor	600,656	Mar. 15	1874	428	82	1615
Tire for wheels. Resilient	H. Carmont	597,313	Jan. 11	1464	343	82	301
Tire for wheels. Rubber	J. Patrick	599,249	Feb. 15	2001	475	82	1015
Tire-furnace	J. Sanford	609,055	Aug. 16	1660	395	84	1009
Tire-holder	J. D. Aitken	611,546	Sept. 27	2582	595	84	1989
Tire. Inflatable	L. W. Heelan	606,141	June 21	2049	469	83	1777
Tire. Inflatable	A. Pullbrook	601,325	Mar. 29	3051		82	1880
Tire-inflator	G. H. Nobbs	613,774	Nov. 8	985	225	85	825
Tire-inflator. Coin-controlled	C. H. Newhall and M. H. Ray	613,593	Nov. 1	668	154	85	743
Tire-inflating apparatus. Pneumatic	C. A. Shoptaugh	611,339	Sept. 27	2186	506	84	1915
Tire-lever	H. Beach	602,252	Apr. 12	1152	253	83	232
Tire-mending composition	F. B. Parks	612,757	Oct. 18	2070	490	85	420
Tire. Metallic wheel	E. J. Chambers	610,622	Sept. 13	882	202	84	1626
Tire. Non-puncturable cycle	J. Thomson and G. Gibb	600,340	Mar. 8	1321	302	82	1491
Tire. Non-slipping pneumatic	H. E. Walter	616,163	Dec. 20	1769	410	85	1789
Tire or other valve	G. H. F. Schrader	607,527	July 19	1840	383	84	396
Tire or other valve. Pneumatic	G. H. F. Schrader	607,526	July 19	1836	383	84	395
Tire patch. Pneumatic	J. R. Hare	603,846	May 10	1100	247	83	830
Tire-patcher	C. A. Brauchler	602,052	Apr. 12	802	173	83	163
Tire plug. Pneumatic	O. F. O'Neill	609,901	Aug. 30	3195	749	84	1336
Tire. Pneumatic	S. Bunting	596,980	Jan. 11	920	217	82	195
Tire. Pneumatic	P. L. Clark	612,016	Oct. 11	759	187	85	159
Tire. Pneumatic	C. Colls	603,374	May 3	223	50	83	643
Tire. Pneumatic	R. Cowen	596,741	Jan. 4	510	117	82	99
Tire. Pneumatic	M. M. Dessau	615,062	Nov. 29	3342	767	85	1324
Tire. Pneumatic	H. J. Doughty	608,187	Aug. 2	36	9	84	662
Tire. Pneumatic	H. J. Doughty	608,188	Aug. 2	38	9	84	662
Tire. Pneumatic	J. W. Dunn	609,962	Aug. 30	3317	772	84	1360
Tire. Pneumatic	W. A. D. Graham	614,806	Nov. 22	2827	650	85	1209
Tire. Pneumatic	F. B. Griswold	596,700	Jan. 4	435	99	82	85
Tire. Pneumatic	A. Günther	600,781	Mar. 15	2093	479	82	1658
Tire. Pneumatic	N. B. Harmon	610,233	Sept. 6	175	39	84	1475
Tire. Pneumatic	K. G. Hiller	616,574	Dec. 27	2531	586	85	1958
Tire. Pneumatic	W. H. James	607,043	July 12	734	158	84	163
Tire. Pneumatic	T. B. Jeffery	607,245	July 12	1154	246	84	238
Tire. Pneumatic	T. B. Jeffery	615,454	Dec. 6	445	105	85	1498
Tire. Pneumatic	W. L. Jolly	603,276	May 3	58	14	83	612
Tire. Pneumatic	L. D. Junkins	603,605	May 3	659	147	83	730
Tire. Pneumatic	E. Kempshall	611,594	Sept. 27	2684	620	84	2008
Tire. Pneumatic	O. L. Kohnert	597,831	Jan. 25	2372	554	82	510
Tire. Pneumatic	J. M. Lucas	598,613	Feb. 8	930	223	82	798
Tire. Pneumatic	P. A. Martin	612,254	Oct. 11	1183	284	85	239
Tire. Pneumatic	C. A. Maynard	604,541	May 24	2430	552	83	1137
Tire. Pneumatic	P. T. McKay	602,766	Apr. 19	2025	459	83	414
Tire. Pneumatic	F. W. Morgan	615,630	Dec. 6	762	176	85	1563
Tire. Pneumatic	F. Moseley	596,819	Jan. 4	641	147	82	124
Tire. Pneumatic	O. H. Packer	599,974	Mar. 1	549	127	82	1317
Tire. Pneumatic	J. F. Palmer. (Reissue)	11,677	July 5	664	144	84	132
Tire. Pneumatic	L. J. Phelps	606,790	July 5	296	61	84	59
Tire. Pneumatic	J. Robinson	611,510	Sept. 27	2516	581	84	1977
Tire. Pneumatic	C. S. Scott	608,273	Aug. 2	178	43	84	690
Tire. Pneumatic	J. H. G. Seale	614,278	Nov. 15	1868	431	85	1015
Tire. Pneumatic	W. H. Sewell	603,710	May 10	847	188	83	781
Tire. Pneumatic	A. B. Shaw	599,802	Mar. 1	216	53	82	1256
Tire. Pneumatic	F. R. Simms	605,021	May 31	3249	746	83	1314
Tire. Pneumatic	T. Sloper	610,310	Sept. 6	323	69, 197	84	1303
Tire. Pneumatic	U. P. Smith	605,523	June 14	844	197	83	1535
Tire. Pneumatic	J. T. Trench	611,584	Sept. 27	2664	613	84	2004
Tire. Pneumatic	G. Turner and J. M. H. Venour	611,296	Sept. 27	2112	487	84	1902
Tire. Pneumatic	E. G. Van Zandt	597,569	Jan. 18	1918	447	82	408
Tire. Pneumatic	C. K. Welch	612,981	Oct. 25	2473	590	85	519
Tire. Pneumatic	E. A. Werner	597,661	Jan. 18	2071	485	82	437
Tire. Pneumatic	Y. Western	611,745	Oct. 4	270	64	85	55
Tire. Pneumatic	T. Wheatley	598,212	Feb. 1	253	56	82	650
Tire. Pneumatic	W. S. Williams	605,532	June 14	859	201	83	1538
Tire. Pneumatic	J. Willig	600,342	Mar. 8	1323	302	82	1491



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Tire. Pneumatic	J. T. Wilson	616,516	Dec. 27	2437	563 564	85	1941
Tire. Pneumatic	C. P. Young	598,460	Feb. 1	672	164	82	730
Tire. Pneumatic	E. W. Young	607,402	July 12	1435	305	84	294
Tire. Pneumatic	E. W. Young	607,403	July 12	1437	306	84	294
Tire. Pneumatic bicycle	G. A. Woodman	607,559	July 19	1902	393	84	406
Tire. Pneumatic or other elastic	L. W. Cockburn	616,182	Dec. 20	1800	416	85	1795
Tire. Pneumatic vehicle	G. W. Heth	597,146	Jan. 11	1205	282	82	250
Tire. Pneumatic vehicle	P. Knorpp, Jr	610,606	Sept. 13	858	197	84	1622
Tire. Pneumatic vehicle	T. W. Morris	600,162	Mar. 8	1030	231	82	1435
Tire. Pneumatic wheel	G. H. Clark	601,705	Apr. 5	139	28	83	29
Tire. Pneumatic wheel	W. Golding	606,989	July 5	612	133	84	121
Tire. Pneumatic wheel	U. P. Smith	598,823	Feb. 8	1275	309	82	862
Tire-protector	A. Cross and A. C. Wrede	598,559	Feb. 8	842	201	82	780
Tire-protector. Pneumatic	A. Vreeland	598,330	Feb. 1	454	108	82	688
Tire-puller	J. N. Bashaw	612,188	Oct. 11	1051	253	85	216
Tire pump. Automatic bicycle	J. H. Schwone	598,748	Feb. 8	1165	279	82	840
Tire-pump. Coin-controlled	L. S. Brown	605,696	June 14	1171	270	83	1596
Tire pump. Pneumatic	C. Pulcher	604,787	May 31	2864	654	83	1239
Tire punch. Pneumatic	T. S. Grimes	612,587	Oct. 18	1752	415	85	359
Tire-puncture plugger. Bicycle	C. P. Gifford	616,660	Dec. 27	2705	629	85	1991
Tire-removing device	D. D. Robinson	597,297	Jan. 11	1438	337	82	295
Tire repair device. Pneumatic	J. F. Palmer	603,045	Apr. 26	2515	570	83	522
Tire repair-kit. Bicycle	A. J. Whitbeck	610,594	Sept. 13	844	194	84	1618
Tire repair-tool. Bicycle	W. H. Perkins	597,563	Jan. 18	1905	444	82	405
Tire-repairing device. Pneumatic	W. N. Amory	602,420	Apr. 19	1437	324	83	308
Tire. Resilient	A. Birnbaum	598,763	Feb. 8	1187	286	82	844
Tire. Resilient	M. Brendel	603,036	Apr. 26	2500	567	83	519
Tire retainer for vehicle-wheels. Cushion-	L. N. Lyon, Jr	613,583	Nov. 1	650	150	85	739
Tire. Rubber	D. Crowther	609,794	Aug. 30	3012	705	84	1300
Tire. Rubber	A. V. Kiser	605,881	June 21	1547	355	83	1655
Tire. Rubber	J. G. Rodgers	599,733	Mar. 1	93	22	82	1234
Tire. Rubber	P. C. Sachse	608,718	Aug. 9	984	227	84	868
Tire-setting machine	M. G. Brooks	600,117	Mar. 1	900	206	82	1390
Tire-setting machine	C. Mathisen	611,864	Oct. 4	475	115	85	95
Tire. Sheet-metal vehicle-wheel	J. Jamieson	605,435	June 7	715	160	83	1491
Tire shield. Bicycle	J. P. Daly	608,839	Aug. 9	1235	287	84	914
Tire shrinker and stretcher. Wagon-	W. A. Ellis	599,324	Feb. 22	2155	512	82	1067
Tire. Spring-metal	A. H. Huth	598,994	Feb. 15	1584	375 376	82	938
Tire-tape	J. J. Stenger and H. A. Rohm	599,203	Feb. 15	1923	455	82	1000
Tire-tightener	S. E. Burke	601,953	Sept. 20	1464	334	84	1758
Tire-tightener	W. J. Cranford	606,050	June 21	1876	432	83	1743
Tire-tightener	F. M. Cromer	600,611	Mar. 15	1806	414	82	1602
Tire-tightener	G. M. Doersch	598,078	Feb. 1	15	4	82	606
Tire-tightener	G. M. Doersch	604,606	May 24	2545	580	83	1160
Tire-tightener	I. C. Gray	596,495	Jan. 4	54	12	82	13
Tire-tightener	A. Johnson and J. D. Cahill	600,479	Mar. 8	1557	358	82	1535
Tire-tightener	T. F. Leak and R. West	606,929	July 5	518	114	84	103
Tire-tightener	D. Marcott and G. Esveldt	614,017	Nov. 8	1886	318	85	903
Tire-tightener	C. Oakford	614,021	Nov. 8	1890	319	85	904
Tire-tightener	J. H. Osten	603,733	May 10	884	197	83	789
Tire-tightener	W. Shope	609,840	Aug. 30	3093	721	84	1317
Tire-tightener	S. Slaughter	600,624	Mar. 15	1826	419	82	1605
Tire-tightener	W. H. Wallingford	599,373	Feb. 22	2247	533	82	1085
Tire-tightening device	L. M. Marsh	608,989	Aug. 9	1509	357	84	965
Tire tubes. Manufacture of pneumatic-	F. W. Morgan and E. W. Young	605,644	June 14	1077	247 248	83	1578
Tire-valve	A. S. Cartwright	597,954	Jan. 25	2584	603	82	551
Tire-valve	A. S. Cartwright	603,941	May 10	1265	288	83	862
Tire-valve	H. N. Rhodes	597,655	Jan. 18	2062	482	82	436
Tire-valve, &c	G. H. F. Schrader	604,424	May 24	2209	495	83	1099
Tire-valve, &c	G. H. F. Schrader	604,425	May 24	2211	495	83	1099
Tire-valve and pump-coupling	G. H. F. Schrader	607,525	July 19	1894	383	84	395
Tire valve. Pneumatic	W. H. Crossley	610,431	Sept. 6	546	120	84	1543
Tire valve. Pneumatic	E. Fritschle	603,269	May 3	47	12	83	609
Tire valve. Pneumatic	R. L. Gibson	616,610	Dec. 27	2595	602	85	1969
Tire valve. Pneumatic	J. Mohs	606,069	June 21	1912	440	83	1750
Tire valve. Pneumatic	J. Mohs	614,968	Nov. 29	3151	724	85	1289
Tire valve. Pneumatic	W. W. Orr	616,584	Dec. 27	2546	589	85	1960
Tire valve. Pneumatic	C. Tribuzio	616,750	Dec. 27	2869	665	85	2024
Tire. Vehicle	C. T. Adams	609,318	Aug. 16	2162	511	84	1106
Tire. Vehicle	C. T. Adams	609,319	Aug. 16	2163	511	84	1106
Tire. Vehicle	C. T. Adams	609,320	Aug. 16	2165	511	84	1106
Tire. Vehicle	J. S. Carter	600,828	Mar. 15	2170	495	82	1671
Tire. Vehicle	G. W. Cross	601,826	Apr. 5	384	81	83	72
Tire. Vehicle	R. Cowen	611,375	Sept. 27	2270	524	84	1930
Tire. Vehicle	H. A. Fontaine	605,414	June 7	687	153	83	1485
Tire. Vehicle	F. B. Griswold	596,499	Jan. 4	60	13, 14	82	15
Tire. Vehicle	F. A. Hamp	596,811	Jan. 4	628	145	82	121
Tire. Vehicle	F. Latimer	602,759	Apr. 19	2016	457	83	412
Tire. Vehicle	W. N. Murdock and J. C. Hollings	605,117	June 7	81	23	83	1368
Tire. Vehicle	J. G. Rodgers	609,948	Aug. 30	3279	764	84	1353
Tire. Vehicle	W. H. Sewell	598,443	Feb. 1	643	158	82	725
Tire. Vehicle	W. A. Shuler	602,038	Apr. 5	779	169	83	147
Tire. Vehicle	K. D. Sutherland and T. W. Mitchell	615,922	Dec. 13	1274	297	85	1673
Tire. Vehicle	G. A. Turnbull	601,620	Mar. 29	3525	804	82	1973
Tire. Vehicle-wheel	A. M. Janofsky	599,060	Feb. 15	1692	401	82	959
Tire. Vehicle-wheel	J. Morley	610,633	Sept. 13	900	206	84	1630
Tire. Vehicle-wheel	G. L. Ogle	600,208	Mar. 8	1102	251	82	1450
Tire. Vehicle-wheel	N. Therien	606,848	July 5	402	85	84	80
Tire. Velocipede	W. J. Fleming and F. W. Exley	600,197	Mar. 8	1088	246	82	1447
Tire. Velocipede	J. J. Warry	600,187	Mar. 8	1070	242	82	1443
Tire. Wheel	E. Brucker	611,052	Sept. 20	1633	373	84	1790
Tire. Wheel	F. Claffey and O. P. Koplin	612,379	Oct. 11	1392	337	85	279
Tire. Wheel	W. Corliss	613,060	Oct. 25	2604	617	85	545



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tire. Wheel-----	T. H. Grigg-----	597,164	Jan. 11	1235	290	82	256
Tire. Wheel-----	J. J. Harden-----	616,462	Dec. 27	2323	541	85	1920
Tire. Wheel-----	W. H. Hefner-----	604,529	May 24	2105	548	83	1132
Tire. Wheel-----	W. W. Ogden-----	611,415	Sept. 27	2346	540	84	1944
Tires. Air-pump for pneumatic	A. Rigg and J. C. Bayley	599,794	Mar. 1	204	51	82	1254
Tires. Air-valve for pneumatic	C. K. Welch-----	613,917	Nov. 8	1221	279	85	870
Tires. Apparatus and composition for repairing pneumatic	W. Bestie and W. F. Bilger	614,416	Nov. 15	2129	490	85	1065
Tires. Apparatus for applying and removing wheel-	A. A. Vélér-----	601,088	Mar. 22	2599	593	82	1767
Tires. Apparatus for inflating pneumatic-----	B. R. Adkins and C. Windsor	615,123	Nov. 29	3444	790 791	85	1343
Tires. Apparatus for making pneumatic-----	T. and A. Guthrie-----	607,991	July 26	2709	573	84	977
Tires. Apparatus for indicating position of punctures in pneumatic	R. J. Scofield-----	601,907	Apr. 5	549	113	83	104
Tires. Appliance for use in constructing bicycle-	R. A. Leigh-----	612,357	Oct. 11	1357	328	85	272
Tires. Armor for pneumatic-----	R. C. Hansell-----	602,132	Apr. 12	934	204	83	189
Tires. Automatic air-pump for-----	J. Kersting-----	615,187	Nov. 29	3556	818	85	1365
Tires. Automatic air-pump for pneumatic-----	J. H. K. McCollum-----	598,108	Feb. 1	67	16	82	615
Tires. Automatic pump for pneumatic-----	E. Wright-----	596,952	Jan. 4	865	203	82	168
Tires. Back-pressure valve for pneumatic-----	C. Graf-----	606,383	June 23	2517	584	83	1887
Tires. Cement-injector for repairing pneumatic-----	W. Herrick-----	616,572	Dec. 27	2529	585	85	1957
Tires. Coin-controlled apparatus for inflating-----	I. H. Atwood-----	609,259	Aug. 16	2056	488	84	1084
Tires. Composition for closing punctures in pneumatic	E. Thurlow and P. N. Hignett	609,636	Aug. 23	2759	-----	84	1237
Tires. Composition for stopping leaks in cycle----	W. Culveyhouse and E. S. Anderson	599,317	Feb. 22	2140	-----	82	1064
Tires. Composition of matter for closing punctures in	H. Du Cane-----	608,956	Aug. 9	1447	-----	84	953
Tires. Compound for closing punctures in pneumatic	J. Gaa-----	616,459	Dec. 27	2319	-----	85	1919
Tires. Compound for closing punctures in pneumatic	N. Weintraub-Schnorr-----	606,751	July 5	219	-----	84	45
Tires. Compound for healing punctures in pneumatic	I. D. Jewett-----	604,532	May 24	2414	-----	83	1134
Tires. Compound for preventing escape of air from punctured	W. G. Moore-----	598,324	Feb. 1	447	-----	82	687
Tires. Device for closing punctures in pneumatic	G. F. Glidden-----	602,743	Apr. 19	1994	452	83	408
Tires. Device for inserting or removing inner tubes of pneumatic	P. and H. Weber-----	598,310	Feb. 1	425	101	82	682
Tires. Device for repairing pneumatic-----	P. Newell-----	605,330	June 7	514	115	83	1451
Tires. Device for repairing rubber-----	J. F. Reynolds-----	604,636	May 24	2592	592	83	1168
Tires. Device for stopping holes in pneumatic-----	F. W. La Clair-----	614,768	May 31	2834	648	83	1233
Tires for bicycles, &c. Valve for pneumatic-----	C. C. Allen-----	599,581	Feb. 22	2652	621	82	1164
Tires from vehicle-wheels. Machine for removing-----	A. Miller-----	598,736	Feb. 8	1149	276	82	837
Tires. Hand-pump for inflating bicycle-----	B. G. Loudon and W. R. Shute	616,195	Dec. 20	1819	420	85	1798
Tires. Hollow tube for pneumatic-----	R. A. Leigh-----	612,358	Oct. 11	1358	328	85	272
Tires. Inflating-nipple for pneumatic-----	W. Blair-----	615,670	Dec. 13	837	194	85	1590
Tires. Machine for cutting tread-filling strips for wheel-	G. H. Clark-----	601,704	Apr. 5	137	27	83	29
Tires. Machine for making vehicle-----	F. W. Huestis-----	601,834	Apr. 5	397	38, 84	83	74
Tires. Manufacture of resilient or pneumatic-----	C. F. A. H. Bagot-----	603,161	Apr. 26	2718	618	83	562
Tires. Means for detecting punctures, leakage, or porousness in pneumatic	T. Rowley-----	598,577	Feb. 8	874	209	82	787
Tires. Means for inflating pneumatic-----	J. Heimann-----	610,966	Sept. 20	1477	337	84	1761
Tires. Means for mending punctures in rubber-----	E. S. Sperry and H. W. Olmsted	612,145	Oct. 11	978	237	85	201
Tires on wheels. Means for fixing rubber-----	A. Hopton-----	604,862	May 31	2995	688	83	1264
Tires. Protecting-armor for pneumatic-----	R. H. Stevenson-----	601,327	Mar. 29	3054	688	82	1880
Tires. Pump for inflating pneumatic-----	A. Gross-----	603,634	May 10	725	163	83	758
Tires. Pump for inflating pneumatic-----	C. B. Lentz-----	610,991	Sept. 20	1529	351	84	1771
Tires. Puncture-band for pneumatic-----	J. V. Allen-----	608,166	Aug. 2	1	1	84	655
Tires. Puncture-closing compound for pneumatic-----	C. C. and F. G. Allen-----	599,115	Feb. 15	1783	-----	82	975
Tires. Puncture-repair tool for pneumatic-----	C. C. Call-----	614,287	Nov. 15	1879	494	85	1017
Tires. Repair-kit for single-tube bicycle-----	W. M. Jones-----	607,379	July 12	1398	298	84	287
Tires. Repairing plug and patch for pneumatic-----	R. N. Tucker-----	598,650	Feb. 8	998	241	82	809
Tires. Tool for loosening inner tubes of bicycle-----	W. H. Phelps and J. F. Brenner	616,487	Dec. 27	2382	552	85	1981
Tires. Tool for removing casings of pneumatic-----	J. Horswill, Jr-----	597,286	Jan. 11	1422	334	82	292
Tires. Tool for repairing pneumatic-----	C. V. Dasey-----	600,142	Mar. 8	1001	223	81	1430
Tires. Tool for repairing pneumatic-----	E. R. Meeker-----	611,414	Sept. 27	2344	540	84	1944
Tires. Tool for repairing pneumatic-----	E. R. Meeker-----	611,972	Oct. 4	653	158	85	127
Tires. Tightening-----	J. W. Allen-----	605,534	June 14	860	201	83	1538
Tires. Valve device for pneumatic-----	P. L. Clark-----	612,380	Oct. 11	1393	337	85	279
Tires. Valve for pneumatic-----	A. F. Little-----	612,855	Oct. 25	2272	542	85	478
Tires. Valve for pneumatic-----	H. A. Mears-----	601,211	Mar. 22	2811	643	82	1806
Tires. Valve for pneumatic-----	E. F. Pickett-----	612,570	Oct. 18	1726	409	85	355
Toaster-----	G. R. Wilson-----	610,668	Sept. 13	952	220	84	1641
Toaster. Bread-----	H. French-----	613,136	Oct. 25	2716	642	85	567
Tobacco and securing it in boxes. Machine for compressing	T. J. Humphrey-----	614,721	Nov. 22	2681	610 611	85	1180
Tobacco, &c. Apparatus for drying-----	S. C. Davidson-----	616,294	Dec. 20	2013	468 469	85	1838
Tobacco boxes. Detachable front for plug-----	A. M. Downing-----	599,552	Feb. 22	2598	609	82	1153
Tobacco boxes. Detachable front for plug-----	A. M. Downing-----	613,256	Nov. 1	51	13	85	627
Tobacco carrier and cutter. Plug-----	G. Hirschbach-----	604,756	May 31	2317	643	83	1230
Tobacco-cutter-----	J. B. Adt-----	605,371	June 7	608	135	83	1468
Tobacco-cutter-----	S. H. Arrell-----	601,332	Mar. 29	3064	690	82	1882
Tobacco-cutter-----	C. C. Morris-----	606,874	July 5	443	95	84	87
Tobacco cutter and advertising device. Combined.	D. V. Crowe-----	615,212	Nov. 29	3637	835 836	85	1381
Tobacco-cutting machine-----	D. Jackson-----	597,148	Jan. 11	1207	283	82	251
Tobacco, &c. Drier for-----	S. C. Davidson-----	616,293	Dec. 20	2010	467 468	85	1837
Tobacco-hiller-----	J. Christman-----	600,303	Mar. 8	1262	288	82	1480
Tobacco into wrappers. Forming-----	P. Dillon-----	611,107	Sept. 20	1736	-----	84	1811
Tobacco-leaf-stemming machine-----	G. P. and W. H. Butler-----	615,248	Dec. 6	30	6, 7 8, 9	85	1117
Tobacco-leaves. Treating-----	C. A. Rickard and E. N. Long-----	604,338	May 17	2053	-----	83	1048



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Tobacco-moistening apparatus. Leaf-----	S. C. Davidson-----	616,292	Dec. 20	2008	466	85	1837
Tobacco-pipe-----	H. R. Barnard-----	609,260	Aug. 16	2058	467	84	1085
Tobacco-pipe-----	G. Berghaus-----	610,520	Sept. 13	711	161	84	1592
Tobacco-pipe-----	L. Eulenstein-----	612,837	Oct. 25	2243	536	85	472
Tobacco-pipe-----	T. M. Gill-----	611,575	Sept. 27	2643	610	84	2001
Tobacco-pipe-----	J. Hannan-----	598,086	Feb. 1	27	7	82	608
Tobacco-pipe-----	G. A. Hynds-----	598,708	Feb. 8	1107	265	82	829
Tobacco-pipe-----	J. Jaque-----	615,027	Nov. 29	3265	749	85	1310
Tobacco-pipe-----	P. Johnson-----	610,757	Sept. 13	1107	253	84	1672
Tobacco-pipe-----	W. Nax-----	603,702	May 10	835	185	83	779
Tobacco-pipe-----	G. G. Palmer-----	606,473	June 28	2676	616	83	1919
Tobacco-pipe-----	W. V. Smith and H. B. Barton-----	609,764	Aug. 23	2951	690	84	1274
Tobacco-pipe-----	S. D. Webb and I. L. Johnson-----	609,641	Aug. 23	2766	644	84	1238
Tobacco-pipe-----	H. Williamson-----	599,433	Feb. 22	2384	560	82	1113
Tobacco-pipe-----	J. W. Wood-----	600,760	Mar. 15	2063	473	82	1652
Tobacco-pipe-----	J. C. Wright-----	610,839	Sept. 13	1254	289	84	1702
Tobacco-pipe and cigar or cigarette holder. Com- bined-----	A. Seidenspinner-----	598,350	Feb. 1	480	115	82	692
Tobacco-pipe cleaner-----	W. B. Hausman-----	606,716	July 5	147	31	84	31
Tobacco-pipe rack-----	H. Skilton-----	610,249	Sept. 6	194	44	84	1480
Tobacco-pipe smoke-deflector and cleaner-----	W. O. Blase-----	612,657	Oct. 18	1896	449	85	387
Tobacco-pouch-----	J. Barrett and J. H. Wyatt-----	596,769	Jan. 4	558	128	82	107
Tobacco-press-----	J. and E. Tisch-----	608,532	Aug. 2	639	144	84	781
Tobacco smoking-pipe-----	G. Ferrata-----	607,601	July 19	1979	411	84	420
Tobacco-steamer-----	A. J. Fair-----	605,412	June 7	684	152	83	1484
Tobacco-stemming machine-----	D. Barker-----	598,471	Feb. 1	686	167	82	733
Tobacco-stemming machine-----	R. W. Coffee-----	599,308	Feb. 15	2104	498	82	1035
					499		
					500		
					501		
					501		
					502		
Tobacco-stemming machine-----	R. W. Coffee-----	599,309	Feb. 15	2115	503	82	1037
					504		
					505		
Tobacco-tagging machine. Plug-----	C. R. Pflaging-----	597,153	Jan. 11	1216	286	82	253
Tobacco-treating apparatus-----	A. V. Hysore-----	601,654	Apr. 5	54	11	83	11
Tobacco-treating machine-----	O. S. Harmon-----	606,209	June 28	2176	500	83	1819
Toboggan. Roller-----	C. N. Grant-----	602,442	Apr. 19	1477	337	83	310
Toe-clip-----	W. E. Gerow-----	614,856	Nov. 29	2934	673	85	1244
Toe-clip-----	H. F. Helmboldt-----	597,183	Jan. 11	1265	296	82	262
Toe-clip-----	W. D. McDaniel-----	602,516	Apr. 19	1600	366	83	334
Toilet and wash stand-----	T. Andrews-----	616,444	Dec. 27	2281	531	85	1911
Toilet appliance-----	L. M. Biggs-----	609,870	Aug. 30	3139	733	84	1326
					734		
Toilet-case, Traveler's-----	E. R. Briggs-----	602,494	Apr. 19	1560	355	83	326
Toilet-fixture-----	T. E. Bennett-----	613,231	Nov. 1	9	3	85	619
Toilet, tea, library, game, and work table. Combi- nation lady's-----	J. L. Isaacs-----	614,722	Nov. 22	2687	612	85	1181
					613		
Tomb-----	T. J. Pennington-----	614,022	Nov. 8	1391	319	85	905
Tombstone-----	J. B. Ford-----	604,354	May 17	2083	467	83	1054
Tombstone-anchor-----	W. C. Gilbert-----	610,529	Sept. 13	725	164	84	1595
Tongs-----	C. D. Eames-----	601,506	Mar. 29	3354	760	82	1939
Tongs-----	V. G. Higgins-----	603,084	Apr. 26	2595	589	83	536
Tongs-----	H. Lindas-----	597,649	Jan. 18	2048	479	82	433
Tongs. Kitchen-----	R. G. Burton-----	613,355	Nov. 1	247	56	85	665
Tongs. Pipe-----	W. M. Powell, Jr-----	599,252	Feb. 15	2003	476	82	1016
Tongs. Wrench-----	F. V. Whitman and J. W. James-----	612,982	Oct. 25	2475	590	85	519
Tongue. Carriage-----	J. Howell-----	603,604	May 3	658	147	83	730
Tongue-carrier. Harvesting-machine-----	M. Seitz-----	614,137	Nov. 15	1601	367	85	966
Tongue-support-----	S. N. McMillan-----	615,735	Dec. 13	948	220	85	1611
Tongue-support-----	C. H. Swank-----	603,387	May 3	242	55	83	647
Tongue-support-----	J. Weeter-----	613,787	Nov. 8	1007	229	85	828
Tongue support. Harvester-----	W. Gates-----	599,126	Feb. 15	1799	428	82	979
Tongue support. Harvester-----	B. J. Shaffer-----	613,726	Nov. 8	906	208	85	809
Tongue support. Wagon-----	B. C. Armstrong-----	616,050	Dec. 13	1517	354	85	1722
Tongue. Wagon-----	J. A. Sekora and I. M. Bartlett-----	615,501	Dec. 6	543	124	85	1517
Tonguing-and-grooving machine-----	F. E. Park-----	600,842	Mar. 15	2194	501	82	1676
Tonguing-and-grooving machine. Lumber-----	J. W. Heaton-----	600,785	Mar. 15	2100	480	82	1659
Tonsilotome-----	C. Pattberg-----	606,078	June 21	1937	444	83	1755
Tonsilotome-----	G. F. Richter-----	614,760	Nov. 22	2747	627	85	1193
Tool-----	W. Borrer, Jr-----	596,568	Jan. 4	189	42, 43	82	38
Tool-----	W. R. Jenkins-----	613,207	Oct. 25	2852	672	85	593
Tool-----	M. H. Poor-----	599,194	Feb. 15	1909	452	82	997
Tool. Combination-----	J. H. Allen-----	607,907	July 26	2568	544	84	550
Tool. Combination-----	H. K. Bealer and H. G. Schelden-----	616,179	Dec. 20	1796	415	85	1794
Tool. Combination-----	P. Broadbooks-----	615,955	Dec. 13	1342	313	85	1686
					314		
Tool. Combination-----	E. F. Cooper-----	613,759	Nov. 8	964	221	85	821
Tool. Combination-----	W. A. Coulson-----	613,665	Nov. 8	780	178	85	786
Tool. Combination-----	B. J. Hillman-----	606,547	June 28	2818	649	83	1947
Tool. Combination-----	S. J. Johnston-----	601,302	Mar. 29	3011	679	82	1873
Tool. Combination-----	J. C. Karner-----	604,830	May 31	2931	670	83	1252
Tool. Combination-----	H. F. Koll-----	596,519	Jan. 4	105	24	82	22
Tool. Combination-----	W. N. McCarty-----	605,792	June 14	1354	310	83	1630
Tool. Combination-----	C. C. A. Mitchell-----	609,895	Aug. 30	3186	747	84	1335
Tool. Combination-----	J. R. Morris-----	607,448	July 19	1525	324	84	327
Tool. Combination-----	G. S. Neeley, A. Maitland, and G. Birkicht-----	604,478	May 24	2315	525	83	1117
Tool. Combination-----	J. W. Newbrough-----	611,973	Oct. 4	655	158	85	128
Tool. Combination-----	A. F. Olsen-----	610,825	Sept. 13	1235	284	84	1698
Tool. Combination-----	G. M. Rockey and C. H. Strain-----	602,524	Apr. 19	1612	369	83	336
Tool. Combination-----	E. H. Shaw-----	606,395	June 28	2536	588	83	1891
Tool. Combination-----	A. B. Smith-----	601,737	Apr. 5	222	44	83	43



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.'g.	Vol.	Page.
Tool. Combination.....	H. E. Welsh.....	597,345	Jan. 11	1531	357	82	315
Tool-driver. Double-acting.....	F. A. Reynolds.....	596,790	Jan. 4	591	137	82	113
Tool-handle.....	J. D. Barry.....	606,956	July 5	552	121	84	110
Tool-handle.....	W. J. Elder.....	600,260	Mar. 8	1200	272	82	1468
Tool-handle.....	F. J. Hall.....	607,115	July 12	901	195	84	193
Tool-handle.....	F. Pedersen.....	608,902	Aug. 9	1330	310	84	932
Tool-handle.....	J. P. Walter.....	601,690	Apr. 5	120	23	83	26
Tool-handle and device for securing same.....	H. A. Zeckendorf.....	597,451	Jan. 18	1733	400	82	370
Tool-handle protector.....	J. A. Heintz.....	606,211	June 28	2180	501	83	1820
Tool-head.....	W. R. Jenkins.....	612,002	Oct. 4	714	172	85	140
Tool-holder.....	H. S. Johnson.....	604,009	May 10	1427	320	83	898
Tool-holder.....	W. C. Ladd.....	609,967	Aug. 30	3322	773	84	1361
Tool-holder.....	F. I. Shelhamer and S. C. Garner.....	615,110	Nov. 29	3423	785	85	1338
Tool-holder.....	C. H. Youngs.....	613,952	Nov. 8	1283	291	85	881
Tool-holder. Adjustable.....	J. K. Severson.....	600,747	Mar. 15	2043	467	82	1648
Tool holder or carrier.....	W. J. Muncaster.....	605,504	June 14	817	189	83	1530
Tools on handles. Means for securing.....	A. Biggs, Jr.....	610,733	Sept. 13	1060	243	84	1663
Tools. Supporting-table for machine.....	P. R. Schubert and A. Stelzenmüller.....	612,915	Oct. 25	2369	564	85	496
Tooth. Artificial.....	G. Buchanan.....	607,211	July 12	1073	232	84	223
Tooth. Artificial.....	H. M. Carroll.....	597,099	Jan. 11	1135	268	82	238
Tooth. Artificial.....	C. E. Foster.....	607,231	July 12	1125	241	84	233
Tooth. Artificial.....	T. S. Heineken.....	616,666	Dec. 27	2718	631	85	1993
Tooth-crown. Artificial.....	M. W. Hollingsworth.....	602,581	Apr. 19	1707	388	83	353
Tooth-crown post. Artificial.....	W. S. How.....	602,582	Apr. 19	1709	388	83	353
Tooth-crowns. Attaching.....	M. Tressenreiter.....	616,815	Dec. 27	2976	694	85	2046
Tooth-crowns. Post and disk attachment for artificial.....	G. Evans.....	616,302	Dec. 20	2023	471	85	1840
Tooth-fillings.....	W. F. Davison.....	603,179	Apr. 26	2744	624	83	567
Tooth for crown and bridge work. Artificial.....	F. N. Brown.....	604,363	May 24	2106	472	83	1079
Tooth mold. Artificial.....	A. Page and S. S. Bloom.....	613,711	Nov. 8	870	201	85	802
Toothpick-making machine.....	E. B. Benham and H. E. Barlow.....	609,075	Aug. 16	1692	403	84	1015
Tooth-powder box.....	C. Millington.....	603,731	May 10	880	195	83	788
Tooth-powder receptacle.....	T. O. Holland.....	611,410	Sept. 27	2336	538	84	1943
Tooth-powder receptacle.....	W. S. Thompson, Jr.....	610,775	Sept. 13	1144	263	84	1680
Top.....	E. S. Chapell.....	596,479	Jan. 4	22	6	82	7
Top-spinner.....	J. Stamp.....	599,481	Feb. 22	2468	581	82	1127
Top-spinner.....	S. G. Warren.....	615,930	Dec. 13	1290	300	85	1676
Top. Spinning.....	E. W. Risbrough.....	607,552	July 19	1891	391	84	404
Top. Spinning.....	G. A. Sahlender.....	611,761	Oct. 4	292	69	85	60
Torch. Illuminating.....	G. Kelly.....	613,819	Nov. 8	1071	243	85	840
Torch. Signal.....	O. V. Wood and F. Dutcher.....	607,581	July 19	1943	403	84	413
Torpedo. Balloon.....	M. French.....	603,182	Apr. 26	2747	625	83	567
Torpedo-exploder.....	A. Riecke.....	606,685	July 5	91	19	84	20
Torpedo-launching apparatus.....	J. Whitehead.....	608,814	Aug. 9	1182	276	84	903
Torpedo. Marine.....	J. A. Walsh.....	601,604	Mar. 29	3500	798	82	1969
Torpedo. Railway.....	J. H. Bevington.....	597,256	Jan. 11	1382	323	82	284
Torpedo. Railway.....	J. H. Bevington and H. M. Fisher.....	608,020	July 26	2779	591	84	594
Torpedo. Railway.....	W. C. Schooley.....	597,889	Jan. 25	2467	577	82	529
Torpedo. Submarine.....	J. Jacobson.....	597,289	Jan. 11	1426	334	82	293
Torpedoes. Automatic steering device for.....	E. Kaselowsky.....	607,440	July 19	1510	321	84	325
Torpedoes. Severing mechanism for aerial.....	J. A. Hill.....	603,689	May 10	814	180	83	776
Tow. Method of and apparatus for cleaning waste.....	M. D. Miller.....	599,342	Feb. 22	2188	520	82	1072
Towel-rack.....	H. S. Broughton.....	601,550	Mar. 29	3422	777	82	1954
Towel-rack.....	J. W. Lyon.....	605,565	June 14	920	215	83	1550
Tower.....	H. H. Macomber.....	603,011	Apr. 26	2464	560	83	512
Towing canal-boats, &c.....	T. S. Miller.....	600,925	Mar. 22	2339	531	82	1716
Towing canal-boats, &c.....	T. S. Miller.....	601,353	Mar. 29	3092	698	82	1888
Towing-machine.....	J. A. Mumford.....	616,580	Dec. 27	2538	587	85	1959
Toy.....	F. W. Babbidge.....	606,955	July 5	551	121	84	109
Toy.....	J. U. Barr, Jr.....	597,379	Jan. 18	1597	371	82	345
Toy.....	J. C. Briggs.....	611,887	Oct. 4	512	124	85	102
Toy.....	A. Busse.....	607,159	July 12	985	213	84	207
Toy.....	A. S. Card.....	608,835	Aug. 9	1223	285	84	911
Toy.....	J. A. Crandall.....	601,499	Mar. 29	3344	757	82	1937
Toy.....	D. W. Davis.....	610,600	Sept. 13	852	195	84	1620
Toy.....	A. M. De Souchet.....	597,519	Jan. 18	1841	426	82	392
Toy.....	P. J. Engstrom.....	613,981	Nov. 8	1333	303	85	892
Toy.....	M. E. Harrison and S. A. Robinson.....	613,414	Nov. 1	369	85	85	686
Toy.....	G. H. King.....	616,239	Dec. 20	1914	443	85	1817
Toy.....	G. Laube.....	598,051	Jan. 25	2746	640	82	583
Toy.....	H. E. Lejeune.....	609,941	Aug. 30	3264	762	84	1349
Toy.....	N. P. McKenney.....	613,386	Nov. 1	306	71	85	675
Toy.....	J. Steppan.....	602,019	Apr. 5	744	160	83	141
Toy.....	A. M. Todd.....	604,180	May 17	1757	396	83	992
Toy.....	C. S. Towle and A. Tschinkel.....	614,354	Nov. 15	2013	464	85	1043
Toy.....	J. A. Udden.....	612,467	Oct. 18	1551	371	85	322
Toy.....	H. B. Windrath.....	612,622	Oct. 18	1832	435	85	375
Toy. Aerial.....	V. M. Wilson, Jr.....	608,500	Aug. 2	586	131	84	771
Toy. Automatic.....	W. H. Hyde.....	615,277	Dec. 6	105	28	85	1434
Toy balloon. Rebounding.....	H. B. Mead.....	600,967	Mar. 22	2401	548	82	1729
Toy bank.....	L. J. Justen.....	612,732	Oct. 18	2022	480	85	411
Toy boat.....	J. T. Crawley.....	616,410	Dec. 20	2221	518	85	1878
Toy bowling-alley.....	C. Bean and G. W. Watson.....	598,894	Feb. 15	1398	337	82	902
Toy bowling apparatus.....	G. Brown.....	600,712	Mar. 15	1985	452	82	1636
Toy bowling-game.....	J. E. Strietelmeier.....	614,998	Nov. 29	3212	738	85	1300
Toy cannon.....	J. R. Jester.....	608,200	Aug. 2	61	14	84	667
Toy. Combination.....	G. H. King.....	616,240	Dec. 20	1916	443	85	1817
Toy cue.....	R. C. Moore.....	616,482	Dec. 27	2368	550	85	1928
Toy dart.....	S. F. Ettinger.....	600,772	Mar. 15	2082	477	82	1655
Toy. Detonating.....	A. J. Shenberger.....	614,182	Nov. 15	1668	383	85	978



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Toy. Detonating .....	J. A. Shippard .....	596,549	Jan. 4	155	35	82	32
Toy. Explosive .....	S. Cohn .....	598,909	Feb. 15	1426	343	82	906
Toy. Figure .....	H. Yoas .....	612,474	Oct. 18	1559	374	85	324
Toy. Game .....	J. King .....	615,188	Nov. 29	3558	819	85	1366
Toy gun .....	W. H. Calkins and C. A. Lindberg ..	614,533	Nov. 22	2330	534	85	1115
Toy gun .....	W. H. Holloway .....	603,382	May 3	234	53	83	646
Toy. Gyroscopic .....	F. H. Donaldson, E. H. Owen, and C. N. Williams.	609,332	Aug. 16	2181	514	84	1109
Toy. Jumping .....	F. P. Shek .....	606,900	July 5	477	103	84	95
Toy. Mathematical .....	W. W. Osborne .....	602,954	Apr. 26	2375	541	83	497
Toy. Mechanical .....	J. F. Quinn .....	608,794	Aug. 9	1109	256	84	891
Toy. Mechanical musical .....	H. Thorens .....	610,291	Sept. 6	292	63	84	1498
Toy. Musical .....	F. F. Weingard .....	596,643	Jan. 4	324	70	82	64
Toy. Musical .....	F. A. Worden .....	608,996	Aug. 9	1524	362	84	969
Toy or puzzle .....	J. Reepmaker .....	604,416	May 24	2192	491	83	1095
Toy or puzzle .....	R. Wilson .....	601,924	Apr. 5	574	119	83	109
Toy pistol .....	J. W. Wildman .....	599,135	Feb. 15	1817	431	82	981
Toy puzzle .....	A. B. Greene .....	611,840	Oct. 4	433	103	85	86
Toy safe .....	J. Kolesar .....	613,450	Nov. 1	428	98	85	698
Toy savings-bank .....	C. Smyth .....	605,064	May 31	3322	762	83	1328
Toy savings-bank and puzzle. Combined chair	C. J. Manning .....	608,001	July 26	2726	582	84	580
Toy. Sounding .....	V. Sekinger .....	612,217	Oct. 11	1105	265	85	226
Toy watch and coin-retainer .....	S. Manchester .....	611,039	Sept. 20	1607	368	84	1785
Toys, &c. Manufacture of stamped wheels for	H. J. Leconte and H. M. Gourrier ..	609,820	Aug. 30	3068	715	84	1311
Trace-carrier .....	W. P. Kellogg .....	606,347	June 28	2448	567	83	1875
Trace-fastener .....	E. L. Painter .....	607,000	July 5	649	140	84	129
Trace-fastener .....	W. T. Parsons .....	611,706	Oct. 4	203	48	85	42
Trace-fastener .....	C. O. Swickard .....	607,967	July 26	2664	569	84	568
Trace-fastener .....	I. Williams .....	599,755	Mar. 1	142	33	82	1243
Trace-fastening .....	T. Marcotte .....	599,079	Feb. 15	1718	408	82	964
Trace-holder .....	G. Bartlett .....	605,374	June 7	612	136	83	1468
Trace-holder .....	G. Baumann .....	606,639	July 5	4	1	84	3
Trace-holder .....	E. E. Stephenson .....	614,513	Nov. 22	2305	528	85	1110
Trace-trimmer .....	L. L. Miller .....	611,181	Sept. 20	1868	431	84	1836
Track and wheel brake. Combined	W. Timmis .....	598,966	Feb. 15	1536	365	82	926
Track-cleaner .....	F. M. Bickelberger .....	601,229	Mar. 29	2854	652	82	1842
Track-cleaner .....	W. T. Hurst .....	605,431	June 7	709	158	83	1489
Track-cleaner .....	J. Hyde .....	602,081	Apr. 12	850	185	83	173
Track-cleaner .....	L. R. Shell .....	615,580	Dec. 6	676	155	85	1544
Track-drill .....	M. M. Moore .....	614,253	Nov. 15	1828	422	85	1007
Track-drill .....	A. J. Sweet .....	601,619	Mar. 29	3523	803	82	1973
Track friction-brake .....	E. E. Loomis and T. J. Mooers .....	605,964	June 21	1715	393	83	1715
Track-groove cleaner .....	T. A. L. Moore .....	614,122	Nov. 15	1574	360	85	961
Track-sander .....	C. V. Rote .....	605,558	June 14	900	210	83	1547
Track-sanders. Automatic valve for	F. M. Dean .....	596,575	Jan. 4	204	45	82	40
Track-sanding apparatus .....	A. A. Lindley .....	608,881	Aug. 9	1302	303	84	926
Track-sanding apparatus .....	H. A. Pike .....	611,392	Sept. 27	2303	531	84	1936
Track-sanding apparatus .....	J. H. Watters, W. R. Howdon, and W. A. Jacobs.	614,413	Nov. 15	2122	488	85	1063
Track. Wheel .....	O. De Forest .....	596,857	Jan. 4	704	162	82	137
Traction-engine .....	S. B. Gray .....	608,517	Aug. 2	614	138	84	777
Traction-engine .....	C. L. and R. A. Schultz .....	611,711	Oct. 4	210	50	85	43
Traction-engine .....	W. Stephenson .....	603,821	May 10	1048	233	83	821
Traction-engine .....	B. C. Vanduzen .....	609,253	Aug. 16	2037	482	84	1081
Traction-engine .....	A. F. Wittenmyer .....	614,918	Nov. 29	3039	696	85	1265
Traction-engine .....	R. J. Zerban, Jr .....	611,166	Sept. 20	1848	425	84	1832
Traction-engine. Oil-vapor .....	D. Best .....	602,594	Apr. 19	1729	426	83	357
Traction-engine with winding-drum .....	R. H. Fowler and G. S. Tuer .....	604,660	May 24	2629	393	83	1176
Traction-motor .....	A. J. P. de Souza .....	609,196	Aug. 16	1916	601	84	1054
Traction-wheel .....	H. C. Duensing .....	604,006	May 10	1423	456	83	897
Traction-wheel .....	J. J. Gillinger .....	615,157	Nov. 29	3504	318	85	1355
Traction-wheel .....	L. C. Keck .....	597,774	Jan. 25	2268	805	82	491
Traction-wheel .....	A. and J. Smith .....	597,594	Jan. 18	1963	530	82	417
Traction-wheel .....	F. Williams and W. H. Quicksall ..	609,717	Aug. 23	2885	456	84	1262
Train-control system .....	E. W. Rice, Jr .....	608,301	Aug. 2	226	53	84	700
Train-control system .....	E. W. Rice, Jr .....	608,302	Aug. 2	227	53	84	700
Train-pipes. Automatic flexible coupling for	S. B. Kitchin .....	608,406	Aug. 2	430	95	84	742
Trains, &c. Contrivance for automatically stopping	S. Pojarkow .....	605,973	June 21	1727	396	83	1718
Tramway. Electric .....	A. Diatto .....	607,919	July 26	2584	548	84	553
Tramway-switch .....	A. E. Shannon .....	600,091	Mar. 1	851	196	82	1381
Tramway-switch .....	A. W. Wells .....	608,090	July 26	2890	619	84	616
Transfer-carriage for elevated ways .....	C. H. Notter .....	599,973	Mar. 1	547	125	82	1314
Transferring strip and scale .....	W. D. Kimball .....	603,088	Apr. 26	2600	126	83	537
Transformer box and hanger .....	L. Gutmann .....	606,208	June 28	2174	499	83	1819
Transformer-stamping .....	D. C. and W. B. Jackson .....	614,474	Nov. 22	2244	514	85	1100
Transformer system and apparatus .....	A. Müller .....	614,571	Nov. 22	2398	548	85	1128
Translating devices. Method of and means for controlling energy delivered to	H. W. Leonard .....	611,970	Oct. 4	648	157	85	127
Transmitter and receiver. Combined .....	J. M. Joy .....	604,533	May 24	2415	549	83	1134



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Transom-center	C. O. Case	606,643	July 5	13	3	84	5
Transom fastener and pivot	C. M. Bright and W. O. Ballard	608,544	Aug. 2	659	150	84	785
Transom-lifter	C. Glover	600,864	Mar. 22	2238	510	82	1698
Transom-lifter	O. C. Rixson	601,104	Mar. 22	2625	599	82	1772
Transom-lifter	W. R. Shelmire	610,499	Sept. 6	678	152	84	1569
Transplanter	W. E. Cheeseman	602,894	Apr. 26	2249	512	83	472
Transplanter	W. D. Grim	610,625	Sept. 13	888	203		
Transplanter	R. T. Reasons	601,984	Apr. 5	694	147	83	1628
Transplanter implement	O. I. Millar	607,519	July 19	1824	380	84	131
Transport or conveyance of materials	F. Honigmann	616,537	Dec. 27	2471	572	85	392
Transportation apparatus	N. B. Lane	612,352	Oct. 11	1351	326	85	1947
Transportation system	W. Grosvenor	606,284	June 28	2328	539	83	1852
Transporting apparatus	W. R. Diehl	611,567	Sept. 27	2625	540		
Transporting apparatus	F. S. Pett	615,043	Nov. 29	3298	605	84	1997
Trap:					606		
See Animal-trap.	Mole-trap.				758	85	1315
Animal jaw-trap.	Moth or insect trap.				759		
Ant-trap.	Mouse-trap.						
Bath-trap.	Pigeon-trap.						
Clean-out trap.	Sanitary trap.						
Drainage-trap.	Seal-trap.						
Fish-trap.	Self-setting trap.						
Fly-trap.	Sewer-trap.						
Game-trap.	Steam-trap.						
Grease-trap.	Testing-trap.						
Hog-trap.	Vermin-trap.						
Insect-trap.	Water-trap.						
Minnow-trap.							
Trap.	E. Carpenter	610,755	Sept. 13	1103	252	84	1671
Trap.	W. T. Ebert	603,479	May 3	430	95	83	683
Trap.	L. D. Hosford	598,992	Feb. 15	1581	375	82	987
Trap.	J. D. James	613,516	Nov. 1	547	124	85	719
Trap.	W. A. Pickard	610,199	Sept. 6	86	17	84	1457
Trap.	J. A. Rude	607,768	July 19	2259	477	84	474
Trap.	L. Stanek	616,209	Dec. 20	1838	425	85	1802
Trap for sinks, &c	L. Mullenhoff	605,202	June 7	270	62	83	1401
Traverse-ring	W. Durst	602,981	Apr. 26	2418	551	83	504
Tray or waiter	S. R. H. McLean	615,734	Dec. 13	947	220	85	1611
Tray-turner	M. L. Rupp	613,020	Oct. 25	2531	602	85	530
Tray. Waiting	J. J. Marshall	614,565	Nov. 22	2389	545		
Tread-sanding machine	G. A. Ensign	610,036	Aug. 30	3448	798	84	1126
Tree-box	W. B. Watson	601,691	Apr. 5	121	24	83	1385
Tree extracting and transporting apparatus	M. Ryder	610,691	Sept. 13	987	229	84	1648
Tree-felling machine	F. F. Dow	610,230	Sept. 6	166	37, 38		
Tree-guard	J. E. Flammer	612,585	Oct. 18	1750	414	85	1474
Tree-moving apparatus	E. and H. Hicks	611,685	Oct. 4	161	39, 40	85	359
Tree or vine puller	E. P. Boden	599,217	Feb. 15	1946	462	82	34
Tree-prop bracket	A. B. Ament and M. H. Evans	601,697	Apr. 5	130	26	83	1005
Tree-prop bracket	G. S. Myers	606,823	July 5	348	74	84	28
Tree-protector	J. R. Braden	605,776	June 14	1304	301	83	70
Tree-protector	J. W. Feathers and F. Harris	614,452	Nov. 22	2194	504	85	1621
Tree-protector	J. A. Harvey	602,941	Apr. 26	2353	537	83	1091
Tree-protector	J. K. Jessup, F. W. and J. W. Wickham.	600,645	Mar. 15	1856	424	82	492
Tree-protector	C. Zimmerman	614,921	Nov. 29	3046	698	85	1612
Trees. Adjustable prop for fruit	L. D. Schäffer	612,142	Oct. 11	974	236	85	1266
Treeing-machine	G. H. Clark	612,482	Oct. 18	1572	376	85	200
Treeing-support	C. H. Pope	608,993	Aug. 9	1518	358	84	326
Trellis	F. D. Clark	605,698	June 14	1175	270	83	967
Trellis. Folding	F. D. Clark	605,778	June 14	1327	304	83	1596
Trestle	H. L. Ericksson	601,438	Mar. 29	3239	730	82	1624
Trestle	H. L. Adams	605,370	June 7	607	135	83	1915
Trestle	D. R. Turpin	603,351	May 3	185	42	83	1467
Triangle	B. W. Trunk	605,763	June 14	1275	295	83	637
Tricycle	F. Kummer	598,322	Feb. 1	445	106	82	1616
Tricycle	H. F. Watson	615,054	Nov. 29	3320	763	85	1319
Tricycle. Convertible	C. D. Monnot	609,237	Aug. 16	2009	477		
Tricycle for invalids	C. A. Way	605,530	June 14	855	200	83	1075
Tricycle for propulsion by hand-power	F. S. Allen	606,952	July 5	547	120	84	1538
Tricycle. Hand and chain operated	F. Arnold	611,764	Oct. 4	294	70	85	109
Tricycle-horse	J. N. Cone	601,555	Mar. 29	3429	779	82	60
Trimmer:							1955
See Cargo-trimmer.	Trace-trimmer.						
Paper-trimmer.	Vine-trimmer.						
Shade-trimmer.							
Trimming	G. H. Taylor	615,323	Dec. 6	172	45	85	1446
Trimming and channeling machine	Z. T. French and W. C. Meyer	599,602	Feb. 22	2693	630	82	1171
Trimming and drilling machine	A. J. Morse	601,379	Mar. 29	3130	631		
Trimming. Appliance for making	J. B. Garrod	613,137	Oct. 25	2718	707	82	1895
Trimming. Machine for making beaded	F. P. Ledreux	609,152	Aug. 16	1839	708		
Trip-coupling	W. Loudon	610,865	Sept. 13	1300	299	84	567
Triphenylmethane derivatives. Obtaining	H. R. Vidal	609,599	Aug. 23	2659	437	84	1041
Tripod	W. F. Folmer	608,850	Aug. 9	1257	438		
Tripod	J. F. Sullivan	600,654	Mar. 15	1871	427	82	1615
Tripod-stand for cameras, &c	R. R. Patchel	606,022	June 21	1826	428		



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Triturator	C. L. Trusler	605,302	June 7	469	105 106	83	1441
Trolley	F. E. Case	608,281	Aug. 2	190	46	84	692
Trolley	J. Clayton	600,633	Mar. 15	1841	421	82	1600
Trolley	G. A. Hall	597,848	Jan. 25	2405	560	82	518
Trolley	C. H. Johnson	598,937	Feb. 15	1477	353	82	916
Trolley	F. A. Le Court	614,208	Nov. 15	1725	396	85	990
Trolley	D. Lippy	609,969	Aug. 30	3327	774	84	1362
Trolley	W. H. Russell	607,194	July 12	1048	226	84	219
Trolley	O. W. Swanson	610,927	Sept. 20	1402	321	84	1747
Trolley	J. E. Wells	602,923	Apr. 26	2315	527	83	484
Trolley-arm	B. R. Shopp, Jr.	612,062	Oct. 11	840	205	85	174
Trolley-base	H. G. Taylor	607,612	July 19	1998	414	84	424
Trolley-carrier	W. J. Sumner	616,813	Dec. 27	2974	693	85	2046
Trolley connection for electric cars	J. G. McLaughlin	605,326	June 7	507	113	83	1449
Trolley-controller	J. Dolan	614,321	Nov. 15	1951	450	85	1031
Trolley device	J. C. Fernald	614,941	Nov. 29	3102	712	85	1279
Trolley device. Electric	A. J. Gairing	612,410	Oct. 18	1449	349	85	303
Trolley device. Electric	C. L. Jeffrey	612,132	Oct. 11	959	232	85	197
Trolley device. Electric	G. Valley	597,516	Jan. 18	1837	425	82	391
Trolley device for electric-railway cars	L. E. Walkins	603,672	May 10	789	173 174	83	771
Trolley-car	H. Geisenhöner	611,752	Oct. 4	279	66	85	57
Trolley. Electric-car	H. W. Libbey	614,875	Nov. 29	2963	680	85	1250
Trolley. Electric-car	W. H. Russell	599,868	Mar. 1	371	83	82	1282
Trolley. Electric-railway	E. K. Landis	599,393	Feb. 22	2296	542	82	1095
Trolley. Electric-railway	S. H. Short	604,196	May 17	1783	402	83	997
Trolley. Electric-railway	H. Van Hoevenbergh	607,387	July 12	1408	301	84	289
Trolley. Electric street-car	J. T. Himmeger	598,661	Feb. 8	1021	246	82	813
Trolley-guard	H. F. Hendricks and J. H. Denton	597,282	Jan. 11	1417	333	82	291
Trolley-guard	H. J. Vogler and A. Flores	596,926	Jan. 4	815	193	82	159
Trolley-head	C. Grover	606,711	July 5	138	29	84	29
Trolley-head	H. W. Smith	598,580	Feb. 8	878	210	82	788
Trolley-operating ropes. Automatic tender for	C. F. Wilson	597,159	Jan. 11	1228	289	82	255
Trolley-pole	V. A. Mason	612,255	Oct. 11	1184	284	85	239
Trolley-pole	A. M. Meredith	611,367	Sept. 27	2246	519	84	1926
Trolley-pole	J. N. Prisk	605,796	June 14	1359	311	83	1630
Trolley-pole	J. Walsh	613,181	Oct. 25	2787	657	85	582
Trolley-pole for overhead electric railways	J. L. Walker	599,274	Feb. 15	2038	483	82	1023
Trolley-pole guide-rope	S. R. Parks	613,713	Nov. 8	872	201 202	85	803
Trolley-replacer. Electric-railway	L. A. Cowles	615,966	Dec. 13	1361	318	85	1690
Trolley-stand	W. T. Shryock	612,875	Oct. 25	2312	550	85	486
Trolley-switch	J. H. Vanasselt	605,211	June 7	284	66	83	1404
Trolley-system crossover	C. E. Davis	607,918	July 26	2583	547	84	553
Trolley. Third-rail	L. M. Maxham	607,065	July 12	801	175	84	174
Trolley-wheel	A. B. Collett	600,857	Mar. 22	2229	508	82	1697
Trolley-wheel	A. F. Humphrey	605,716	June 14	1203	278	83	1602
Trolley-wheel	E. R. Robinson	600,890	Mar. 22	2283	520 521	82	1706
Trolley-wheel	H. B. Sawyer	597,693	Jan. 18	2130	498	82	447
Trolley-wheel replacer	G. E. Mittinger, Jr.	616,061	Dec. 13	1534	358	85	1725
Trolley-wheel support	E. Lane	612,351	Oct. 11	1349	326	85	270
Trolley-wire hanger	G. E. Johnson	605,251	June 7	371	84	83	1421
Trolley-wire hanger	W. A. McCallum	602,463	Apr. 19	1514	345	83	317
Trolley-wire system	W. J. Kauffman, E. W. Conkell, and O. F. Kauffman.	600,202	Mar. 8	1094	249	82	1448
Trolleys to their wires. Mechanism for holding	W. R. Weaver	613,744	Nov. 8	938	215	85	815
Trolling-spoon	P. Junod	613,519	Nov. 1	553	125	85	720
Trough:							
<i>See</i> Drip-trough.	Hog-trough.						
Eaves-trough.	Reversible trough.						
Feed-trough.	Watering-trough.						
Feeding-trough.	Well-curb trough.						
Trousers	W. H. Marsden	598,604	Feb. 8	919	221	82	795
Trousers bagging at the knee. Device for prevent-	S. Kepner	610,060	Aug. 30	3481	807	84	1392
ing							
Trousers-clamp	C. P. Young	598,459	Feb. 1	671	164	82	730
Trousers-creaser	J. E. Holmes	602,078	Apr. 12	847	184	83	172
Trousers-guard	W. H. Davis	610,646	Sept. 13	920	210	84	1634
Trousers-guard	A. Poulsen	616,558	Dec. 27	2509	580	85	1955
Trousers-hanger	G. G. Williams	608,092	July 26	2893	619	84	617
Trousers. Knickerbocker	F. A. Tawa	616,506	Dec. 27	2419	560	85	1938
Trousers-leg stretcher	P. D. Halsey	611,841	Oct. 4	434	103	85	86
Trousers-protector	P. C. Goldie	603,507	May 3	495	108	83	697
Trousers-protector	W. F. McFarland	614,491	Nov. 22	2273	520	85	1105
Trousers-rack	R. Norris	611,929	Oct. 4	581	140	85	114
Trousers-stretcher	P. G. Esson	614,447	Nov. 22	2187	502	85	1089
Trousers-stretcher	M. F. Mahoney	608,295	Aug. 2	219	51	84	698
Trousers-stretcher	S. H. Tolman	596,764	Jan. 4	550	126	82	106
Trousers-waistband	J. Schwarz	597,026	Jan. 11	995	234	82	209
Truck	E. C. Atwood	599,923	Mar. 1	470	106	82	1302
Truck	W. H. Beebe	607,329	July 12	1303	278 279	84	270
Truck	M. Blackburn	601,231	Mar. 29	2856	652 653	82	1842
Truck	J. H. Brown and J. Burns	611,890	Oct. 4	517	125	85	103
Truck	J. W. Daly	614,371	Nov. 15	2040	471	85	1048
Truck	W. M. Denniston	614,796	Nov. 22	2803	643	85	1204
Truck	G. J. Hafner	615,448	Dec. 6	432	102	85	1496
Truck	H. W. Horton	605,058	May 31	3312	760	83	1326
Truck	W. A. Johnson	607,048	July 12	771	169	84	168
Truck	E. G. Nutting	608,898	Aug. 9	1324	309	84	931
Truck	A. Schneider and B. Hecht	599,917	Mar. 1	461	103	82	1301
Truck	F. Toepfer	613,336	Nov. 1	201	45	85	655
Truck	A. G. Wolcott	609,176	Aug. 16	1884	448	84	1048



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Truck	C. Young	615,204	Nov. 29	3619	832	85	1378
Truck. Barrel-	H. S. Parker	615,040	Nov. 29	3295	758	85	1315
Truck. Brick-drying	O. Howl	611,965	Oct. 4	637	155 156	85	124
Truck. Car-	B. F. Allen	610,785	Sept. 13	1163	268 269	84	1684
Truck. Car-	C. E. Bauer	597,667	Jan. 18	2085	488	82	440
Truck. Car-	J. A. Brill	598,074	Feb. 1	8	3	82	604
Truck. Car-	G. J. Capewell	609,781	Aug. 30	2984	698 699	84	1294
Truck. Car-	J. L. Crumrine and S. R. Skov	613,443	Nov. 1	419	96	85	696
Truck. Car-	W. Hansen	608,983	Aug. 9	1499	355	84	964
Truck. Car-	G. L. Harvey	613,415	Nov. 1	371	85, 86	85	686
Truck. Car-	F. G. Koehler	601,022	Mar. 22	2499	568 569	82	1746
Truck. Car-	J. Mendel	602,462	Apr. 19	1512	345	83	317
Truck. Car-	E. Peckham	599,474	Feb. 22	2458	578	82	1125
Truck. Car-	E. Peckham	604,784	May 31	2858	653 654	83	1238
Truck. Car-	E. Peckham	606,938	July 5	528	116	84	105
Truck. Car-	M. B. Schaffer	603,457	May 3	373	84, 85	83	672
Truck. Car-	H. Tesseymann	598,258	Feb. 1	330	76	82	664
Truck. Car-	B. W. Tucker	598,651	Feb. 8	999	241	82	809
Truck. Car-	B. W. Tucker	599,882	Mar. 1	394	88	82	1288
Truck. Casket-	W. H. Reama	614,623	Nov. 22	2500	571	85	1145
Truck. Collapsible	C. Green	605,224	June 7	312	71	83	1411
Truck. Electric-car	E. Cliff	614,161	Nov. 15	1638	376	85	973
Truck. Electric-railway car-	G. J. Capewell	610,894	Sept. 20	1358	311	84	1738
Truck equalizer. Car-	E. A. Curtis	603,055	Apr. 26	2529	575	83	524
Truck equipment. Car-	S. H. Short	616,264	Dec. 20	1955	455	85	1825
Truck. Folding	W. T. Murray	614,176	Nov. 15	1659	381	85	977
Truck for handling railway-rails	T. L. Flanagan	603,947	May 10	1274	290	83	864
Truck for motor-cars, &c.	H. L. Gee	605,952	June 21	1638	386	83	1710
Truck for sleighs	J. J. Forcier	612,029	Oct. 11	781	193	85	163
Truck-frame	T. M. Gallagher	604,608	May 24	2546	581	83	1160
Truck-frame. Metallic	L. J. Cox	597,839	Jan. 25	2391	557	82	515
Truck. Grain-	J. R. Doty and T. E. Dollahan	611,613	Oct. 4	35	8	85	10
Truck. Hand-	L. R. Cather	609,985	Aug. 30	3363	781	84	1369
Truck-lifter	W. J. Donaldson	615,534	Dec. 6	595	136	85	1527
Truck. Locomotive speeding-	W. J. Holman	597,557	Jan. 18	1895	439 440 441	82	403
Truck. Maximum-traction	C. F. Uebelacker	598,403	Feb. 1	561	137	82	709
Truck. Motor-	E. Peckham	606,979	July 5	595	130	84	118
Truck or car. Dumping	P. Kramer	609,816	Aug. 30	3049	713	84	1306
Truck. Piano-	D. W. Martin	612,523	Oct. 18	1630	389	85	338
Truck. Pivotal	G. M. Brill and S. M. Curwen	610,118	Aug. 30	3564	826 827	84	1410
Truck. Pivotal	G. M. Brill and S. M. Curwen	610,119	Aug. 30	3573	827	84	1413
Truck. Railway-car	G. J. Capewell	609,779	Aug. 30	2979	697	84	1293
Truck. Railway-car	G. J. Capewell	609,780	Aug. 30	2982	698	84	1293
Truck. Railway-car	G. J. Capewell	609,782	Aug. 30	2987	699	84	1295
Truck. Railway-car	G. J. Capewell	609,783	Aug. 30	2989	700	84	1295
Truck. Railway-car	G. J. Capewell	609,784	Aug. 30	2991	700	84	1295
Truck. Railway-car	G. J. Capewell	609,785	Aug. 30	2993	700	84	1296
Truck. Railway-car	G. J. Capewell	609,788	Aug. 30	2998	702	84	1296
Truck. Railway-car	J. Taylor	598,449	Feb. 1	650	160	82	727
Truck side frame. Car-	F. H. Kindl	614,269	Nov. 15	1854	429	85	1012
Truck. Slag-	J. H. Morcom	605,566	June 14	922	216	83	1551
Truck. Stock-	G. P. Clark	603,676	May 10	794	175	83	772
Truck. Stove-	D. L. Fogleman	601,642	Apr. 5	30	6	83	8
Truck. Transfer-	H. C. Deane	605,162	June 7	188	48	83	1386
Truck transom. Car-	T. M. Gallagher	604,610	May 24	2549	582	83	1161
Trucks. Wearing-liner for car-	B. Bagshawe	609,178	Aug. 16	1887	449	84	1048
Truing device	G. Wagner	607,718	July 19	2178	459	84	458
Trundle-hoop	C. Haupt	602,258	Apr. 12	1164	256	83	235
Trunk	C. H. Mersereau	606,892	July 5	468	100	84	92
Trunk	G. H. Schoenleber	616,426	Dec. 20	2251	524	85	1885
Trunk	P. H. Smith	604,430	May 24	2220	497	83	1101
Trunk	P. H. Smith	605,143	June 7	162	40	83	1381
Trunk	P. H. Smith	606,431	June 28	2613	602	83	1907
Trunk	B. T. Smith and A. E. Baker	610,500	Sept. 6	679	152	84	1569
Trunk	M. A. White	611,189	Sept. 20	1883	435	84	1839
Trunk corner-buffer	J. W. Hayden, Jr.	601,831	Apr. 5	393	83	83	74
Trunk corner-shield	W. H. Rich	607,132	July 12	935	203	84	199
Trunk. Dress-skirt and wardrobe	S. W. Bonsall	604,346	May 17	2070	463	83	1051
Trunk-fastener	W. S. Soule	596,795	Jan. 4	599	139	82	115
Trunk-fastening	W. J. Henry	603,083	Apr. 26	2594	589	83	536
Trunk-fastening	G. A. Tuckfield	612,286	Oct. 11	1241	298	85	250
Trunk-harness	H. Brunner, Jr.	602,496	Apr. 19	1561	355	83	327
Trunk hat holder or packer	G. M. Tinsley	615,593	Dec. 6	695	160	85	1549
Trunk-lifting device	E. Edwards	606,858	July 5	421	90	84	83
Trunk or box attachment	C. G. Maxwell	603,698	May 10	831	184	83	778
Trunk or hat-box	D. Goldsmith	601,073	Mar. 22	2581	588	82	1763
Trunk-protector	L. F. Snapp	611,848	Oct. 4	448	107	85	90
Trunk, sample-case, &c.	P. R. Camp	607,539	July 19	1861	387	84	400
Trunk-strap	A. T. Jones, T. B. Smith, and C. Nilsson.	611,255	Sept. 27	2020	466	84	1884
Trunk. Traveling-	H. A. Booth and J. P. Plummer	602,027	Apr. 5	761	164	83	144
Trunk-tray	C. E. Johnson	609,349	Aug. 16	2209	522	84	1114
Trunk-tray-operating lever	P. H. Smith	609,563	Aug. 23	2596	606	84	1206
Truss	T. W. Booth	603,004	Apr. 26	2455	559	83	510
Truss	E. H. G. Clark	603,126	Apr. 26	2667	605	83	552
Truss	D. D. Dennis	608,444	Aug. 2	492	111	84	753
Truss	F. Fette	598,177	Feb. 1	185	43	82	637



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Truss.....	J. M. Flower.....	614,612	Nov. 22	2482	567	85	1141
Truss.....	S. A. D. Hardy.....	616,319	Dec. 20	2049	476 477	85	1845
Truss.....	W. F. Le Seur.....	606,465	June 28	2666	614	83	1918
Truss.....	C. B. Medbury.....	616,196	Dec. 20	1820	420	85	1798
Truss.....	H. Nerenz.....	615,491	Dec. 6	508	118	85	1510
Truss.....	N. Person.....	610,202	Sept. 6	92	19	84	1458
Truss. Building.....	W. A. Boring.....	607,335	July 12	1315	281	84	271
Truss-pad.....	S. Tucker.....	603,932	May 10	1253	285	83	860
Trussing-machine.....	R. Collen.....	606,957	July 5	553	122	84	110
Trussing-machine.....	R. Collen.....	613,247	Nov. 1	38	9	85	621
Tub: See Bath-tub. Glazing-tub. Bath and wash tub. Wash and bath tub. Flower-tub.							
Tub.....	C. Wesely.....	611,188	Sept. 20	1882	434 435	84	1839
Tub-seat. Detachable.....	A. G. Ryley.....	615,911	Dec. 13	1243	291	85	1667
Tubs, boxes, &c. Fastening device for.....	F. T. Bradish.....	605,470	June 14	764	175	83	1520
Tube: See Collapsible tube. Mailing-tube. Compressible tube. Metal tube. Drinking-tube. Speaking-tube. Inflation-tube. Syringe-tube.							
Tube and flue cleaner.....	E. M. Holden.....	599,840	Mar. 1	313	70	82	1271
Tube-bending apparatus.....	L. H. Brinkman.....	614,242	Nov. 15	1806	417	85	1003
Tube-cleaner.....	S. J. Gunn.....	603,762	May 10	930	207	83	798
Tube-coupling.....	A. W. F. Bennik.....	604,224	May 17	1830	410	33	1005
Tube-cutter.....	F. J. Burrell.....	609,138	Aug. 16	1817	432	84	1036
Tube-cutter.....	J. Miller.....	605,257	June 7	381	86	83	1423
Tube-drawing machine.....	W. A. McCool.....	600,013	Mar. 1	611	140 141	82	1329
Tube for cycle construction, &c.....	W. Wilkinson.....	616,596	Dec. 27	2562	593	85	1963
Tube-forming apparatus.....	E. F. Holinger.....	603,787	May 10	981	219 220	83	807
Tube grooving and joining tool.....	F. Billing, W. E. Partridge, and W. S. Middleton.	601,230	Mar. 29	2855	652	82	1842
Tube-joint.....	J. J. Ricketts.....	616,808	Dec. 27	2966	691	85	2044
Tube-jointing.....	R. I. Roman.....	608,715	Aug. 9	982	226	84	868
Tube-jointing machine.....	W. A. McCallum.....	603,337	May 3	165	38	83	633
Tube-making machine.....	J. A. Charnock.....	603,811	May 10	1030	229	88	818
Tube-making machine.....	J. R. Morrison.....	603,486	May 3	442	99	83	1951
Tube-making machinery.....	J. F. Donaghy, J. Humphrey, and W. Gregg.	600,144	Mar. 8	1004	224	82	1431
Tubes and cylinders. Construction of.....	B. F. Ellis.....	612,897	Oct. 25	2345	558	85	491
Tubes and ropes. Flexible metallic sheathing for.....	R. Kelso and M. Rosenbaum.....	606,557	June 28	2832	653	83	1951
Tubes. Apparatus for locating obstructions in.....	B. C. Batcheller.....	602,422	Apr. 19	1439	325	83	304
Tubes. Applying celluloid or other like coverings to hollow metal.....	J. E. Robinson.....	607,416	July 12	1461	310	84	298
Tubes. Bending armored conduit.....	W. T. Ruete.....	610,726	Sept. 13	1052	241	84	1662
Tubes. Device for manufacturing compressible.....	H. Goodwin.....	610,398	Sept. 6	192	108	84	1534
Tubes. Drawing.....	A. C. Wright.....	609,718	Aug. 23	2886	501 502	84	1262
Tubes. Machine for forming polygonal.....	C. P. Higgins.....	606,213	June 28	2181	502	83	1820
Tubes. Machine for manufacturing metal.....	T. B. Sharp and F. Billing.....	602,878	Apr. 26	2227	504	83	468
Tubes. Machine for manufacturing seamless drawn.....	E. Ivins.....	609,147	Aug. 16	1833	434	84	1039
Tubes. Making polygonal.....	C. P. Higgins.....	615,701	Dec. 13	889	206	85	1600
Tubes. Manufacture of.....	A. M. Reynolds and J. T. Hewitt.....	616,357	Dec. 20	2128	497	85	1861
Tubes, &c. Manufacture of flexible metallic.....	T. Guillaume.....	610,740	Sept. 13	1071	246	84	1665
Tubes. Manufacture of metallic.....	H. Perrins.....	614,023	Nov. 8	1392	819 320	85	905
Tubes. Manufacture of seamless drawn.....	E. Ivins.....	601,966	Apr. 5	669	141	83	126
Tubes. Means for forming branches upon wrought-metal.....	R. Chillingworth.....	596,770	Jan. 4	560	129	82	107
Tubes. Mechanism for expanding or enlarging metallic.....	R. C. Stiefel.....	605,027	May 31	3259	748 749	83	1316
Tubing. Method of and means for manufacturing metal.....	E. E. Ries.....	611,222	Sept. 20	1954	451 452	84	1851
Tubes or pipes. Apparatus for depositing metal on.....	W. Wright.....	615,940	Dec. 13	1316	306 307	85	1680
Tubing and art of and apparatus for making same. Endless.....	J. B. Forsyth.....	598,919	Feb. 15	1445	346	82	910
Tubing. Machine for making.....	T. J. Price.....	613,394	Nov. 1	322	74	85	678
Tubing. Machine for manufacturing continuous spiral.....	W. T. Wilson and G. E. Grimm.....	616,044	Dec. 13	1503	351 352	85	1719
Tubing. Manufacturing cold-drawn steel.....	W. A. McCool.....	602,350	Apr. 12	1315	293	83	265
Tubing. Manufacturing drawn.....	W. A. McCool.....	602,416	Apr. 12	1429	306	83	288
Tubing. Method of and apparatus for manufacturing.....	T. Coates.....	603,812	May 10	1032	230	83	818
Tubing. Tool for repairing elastic.....	C. E. Kelly and A. J. Haworth.....	616,109	Dec. 20	1636	383	85	1763
Tubular articles. Device for cleaning.....	I. M. Weills.....	614,191	Nov. 15	1689	388	85	982
Tubular bar.....	C. S. Dikeman.....	610,262	Sept. 6	219	49	84	1485
Tubular body.....	J. E. Sheriff.....	607,594	July 19	1969	408	84	419
Tubular boiler.....	J. J. Cain.....	615,661	Dec. 6	821	190	85	1574
Tubular boiler.....	J. Jardine.....	615,711	Dec. 13	902	210	85	1603
Tubular joints. Apparatus for making.....	C. T. Crowden.....	609,734	Aug. 23	2906	680	84	1266
Tubular woven fabric.....	B. L. Stowe.....	610,462	Sept. 6	603	135	84	1554
Tubular woven fabric.....	B. L. Stowe.....	610,463	Sept. 6	605	135	84	1554
Tuck-creaser.....	W. E. Rink.....	601,857	Apr. 5	466	94	83	87
Tufted fabric. Machine for making.....	C. S. E. Spoerl and J. Haubrich.....	615,761	Dec. 13	993	232	85	1620
Tufting-machine.....	H. J. Sonder.....	611,849	Oct. 4	451	107 108	85	90
Tug fastener. Hame.....	S. B. Davis.....	611,427	Sept. 27	2372	545	84	1948
Tug-holder. Self-clenching.....	B. Scott and W. S. Benton.....	610,693	Sept. 13	994	230	84	1650
Tug. Shaft.....	H. A. Bierley.....	602,050	Apr. 12	800	173	83	163



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tug. Thill-----	C. R. MacCall-----	606,870	July 5	439	94	84	86
Tumbler cutting and smoothing machine-----	A. Stenger-----	601,685	Apr. 5	112	22	83	24
Tumbler, jug, &c-----	L. Christiansen-----	608,649	Aug. 9	866	199	84	845
Tumbler-washer-----	J. J. Evans-----	602,190	Apr. 12	1054	230	83	212
Tuning-hammer-----	N. M. Powell-----	610,973	Sept. 20	1489	339	84	1763
Tuning-pin-----	H. Müller-----	602,514	Apr. 19	1595	365	83	333
Tuning stringed instruments. Attachment-peg and appliance for-----	G. F. Lyon-----	614,735	Nov. 22	2706	616	85	1185
Tunneling. Wall or lining for shield-----	G. H. Dunlop. (Reissue)-----	11,703	Nov. 29	3678	843	85	1390
Tunnels. Apparatus for driving subterranean-----	W. Lauter-----	612,353	Oct. 11	1352	327	85	271
Turbine. Low-speed high-pressure water-----	C. Steiner-----	616,641	Dec. 27	2659	616	85	1982
Turbine. Marine steam-----	C. A. Parsons-----	608,969	Aug. 9	1471	348	84	958
Turbine motor-----	G. Langer-----	600,007	Mar. 1	596	137 138	82	1326
Turbine. Steam-----	O. Trossin-----	604,507	May 24	2370	538 539	83	1126
Turbine. Vapor or gas-----	R. Lundell-----	613,694	Nov. 8	825	189	85	794
Turbine wheel. Steam or gas-----	J. Schmidt-----	596,792	Jan. 4	595	138	82	114
Turbines. Combined regulating valve and nozzle for-----	C. W. Larson-----	598,998	Feb. 15	1588	377	82	938
Turbines. Power-transmitting arrangement for compound steam-----	E. Seger-----	607,962	July 26	2656	567	84	567
Turnstile-----	R. M. Beatty-----	614,077	Nov. 15	1485	341	85	944
Turn-table-----	C. A. Greenleaf-----	599,934	Mar. 1	489	110	82	1306
Turn-table-----	W. R. Miles-----	615,295	Dec. 6	133	35	85	1439
Turn-table. Automatic pneumatic-----	J. H. Harting-----	615,984	Dec. 13	1389	326 327	85	1696
Turn-table pinion-bracket-----	J. E. Roemheld-----	605,914	June 21	1612	371	83	1697
Turning machine. Pin-----	W. M. Wallace-----	609,060	Aug. 16	1666	396 397	84	1010
Turret-driving mechanism-----	N. P. Towne-----	606,039	June 21	1856	428	83	1739
Turret for war vessels-----	W. D. Stivers-----	604,435	May 24	2231	500 501	83	1102
Turret. Gun-----	N. P. Towne-----	606,038	June 21	1853	427 428	83	1739
Turret mechanism-----	L. H. Blood-----	612,154	Oct. 11	997	242	85	205
Turret mechanism-----	L. H. Blood-----	612,155	Oct. 11	1004	242	85	206
Twine ball or cop-----	G. H. Ellis and J. F. Steward-----	601,771	Apr. 5	286	57	83	55
Twine-cutter. Finger-ring-----	J. Crandall-----	611,313	Sept. 27	2143	495	84	1907
Twine-holder-----	F. Bossong-----	604,961	May 31	3148	724	83	1295
Twine-holder-----	A. Heusch-----	609,934	Aug. 30	3252	759	84	1347
Twine-holder-----	E. B. Weston-----	604,449	May 24	1055	507	83	1107
Twine holder and take-up-----	F. W. Copcutt-----	603,129	Apr. 26	2672	606	83	553
Twist-drill and socket-----	G. F. Leonard-----	611,494	Sept. 7	2492	575	84	1971
Twister stop-motion-----	J. P. O'Connell-----	616,850	Dec. 27	3040	706	85	2059
Twyer-----	D. Summe-----	598,448	Feb. 1	649	160	82	726
Twyer-cooler-----	M. Killeen-----	613,042	Oct. 25	2566	609	85	537
Twyer. Furnace-----	S. S. Hartranft-----	606,545	June 28	2815	648	83	1947
Twyer-iron-----	J. Clark-----	615,230	Nov. 29	3675	842	85	1389
Type-----	W. Litchfield-----	598,524	Feb. 8	787	188	82	768
					139 140 141		
Type-bar-making machine-----	B. F. Bellows-----	598,408	Feb. 1	571	142 143 144 145 146	82	712
Type-bars and apparatus for constructing same. Swaged-----	M. Gally-----	606,657	July 5	35	8,9	84	9
Type-bars and product produced by such machine. Machine for making swage-locked-----	M. Gally-----	606,656	July 5	34	8	84	9
Type-case-----	H. Byxbe-----	602,631	Apr. 19	1802	411	83	371
Type-case-----	J. R. Rankin-----	613,308	Nov. 1	148	34	85	646
Type-cases. Machine for cleaning dust or dirt out of-----	F. A. Pulhemus and L. C. Walter-----	612,137	Oct. 11	966	234	85	199
Type casting and setting machine-----	G. A. Goodson-----	605,955	June 21	1695	388 389 412 413 414	83	1712
Type casting and setting machine-----	G. A. Goodson-----	609,098	Aug. 16	1732	415 416 417 418	84	1022
Type casting and setting machines. Composing-machine for-----	G. A. Goodson-----	605,954	June 21	1692	387 388 411	83	1712
Type casting and setting machines. Composing-machine for-----	G. A. Goodson-----	606,007	June 21	1791	412 413 414	83	1729
Type casting and setting machines. Controller for-----	G. A. Goodson-----	605,956	June 21	1701	389 390	83	1713
Type-casting apparatus-----	J. G. Pavyer-----	604,635	May 24	2591	591 592	83	1168
Type-channel follower-----	E. F. Linke-----	614,661	Nov. 22	2569	584	85	1158
Type-comb-----	W. Berri-----	615,340	Dec. 6	206	51	85	1453
Type-distributing machine-----	R. J. Moxley-----	609,453	Aug. 23	2401	563	84	1170
Type-distributing machines. Device for lifting feeler-hooks of-----	R. J. Moxley-----	597,544	Jan. 18	1876	435	82	399
Type-distributing machines. Lead-extracting device for-----	E. F. Linke-----	614,660	Nov. 22	2566	584	85	1157
Type-faces, &c. Apparatus for facilitating delineation of outlines of-----	F. H. Pierpont-----	600,292	Mar. 8	1245	283 284	82	1477
Type-finishing machinery-----	G. S. Eaton-----	596,489	Jan. 4	40	9	82	10
Type holder. Date-----	G. R. Williams-----	613,832	Nov. 8	1088	248	85	843



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Type-justifying machine .....	J. D. Chalfant .....	614,319	Nov. 15	1935	446 447 448 449 450	85	1028
Type-justifying machine .....	F. A. Johnson .....	607,046	July 12	751	163 164	84	166
Type-justifying machine .....	F. McClintock .....	608,002	July 26	2728	583 584	84	580
Type. Machine for casting justifying-spaces and justifying lines of	W. Berri .....	612,010	Oct. 11	728	175 176 177 178 179 180 181 182 183 184 185	85	156
Type-making machine.....	M. Gally .....	610,231	Sept. 6	170	38, 39	84	1475
Type-separating machine.....	E. F. Linke and G. L. Willey.....	614,662	Nov. 22	2571	585 586	85	1158
Type setting and justifying machine.....	F. B. Converse, Jr. *	601,706	Apr. 5	140	28 29 30 31 159 160	83	30
Type setting and justifying machine.....	F. A. Johnson .....	607,045	July 12	737	161 162 163 164 165	84	164
Type setting and justifying machine.....	F. A. Johnson .....	607,047	July 12	755	166 167 168 362 363 364	84	166
Type setting and justifying machine.....	P. H. McGrath.....	608,997	Aug. 9	1525	365 366 367 368	84	969
Type-setting apparatus.....	L. K. Johnson and A. A. Low .....	596,598	Jan. 4	251	55, 56	82	49
Type-setting apparatus.....	L. K. Johnson and A. A. Low .....	599,390	Feb. 22	2290	540 541	82	1094
Type-setting machine.....	P. F. Cox .....	601,498	Mar. 29	3341	756 757	82	1936
Type-setting machine.....	S. H. and P. E. Hodgkin.....	602,327	Apr. 12	1279	283 284	83	258
Type-setting machine.....	R. J. Moxley.....	606,678	July 5	80	17	84	18
Type-setting or other machines. Justifying device for	E. Wentscher.....	605,618	June 14	1024	235 236 237	83	1568
Type-setting or other machines. Mechanism for operating	T. B. Caswell .....	596,739	Jan. 4	505	116	82	98
Type-wheels. Manufacture of rubber-faced.....	J. S. Ogden .....	606,765	July 5	252	52, 53	84	51
Type-writer .....	C. W. Brown.....	616,451	Dec. 27	2291	534	85	1913
Type-writer .....	J. D. Daugherty.....	610,801	Sept. 13	1194	275	84	1690
Type-writer .....	M. Higuchi .....	611,379	Sept. 27	2278	526 527	84	1932
Type-writer .....	W. P. Quentell.....	607,193	July 12	1045	225 226	84	218
Type-writer .....	W. T. Robertson.....	605,516	June 14	833	194	83	1533
Type-writer .....	H. H. Unz .....	613,178	Oct. 25	2782	656	85	581
Type-writer attachment .....	F. G. Barber.....	605,373	June 7	611	136	83	1468
Type-writer attachment .....	H. C. Krause .....	613,421	Nov. 1	382	89	85	688
Type-writer cabinet.....	E. E. Baker .....	610,752	Sept. 13	1091	250	84	1669
Type-writer cabinet.....	E. E. Baker .....	613,484	Nov. 1	501	112 113	85	711
Type-writer cabinet.....	J. V. Hemstreet .....	613,270	Nov. 1	80	19	85	631
Type-writer cabinet.....	P. E. Whiting.....	613,182	Oct. 25	2788	657	85	582
Type-writer desk.....	A. Cary .....	612,987	Oct. 25	2481	591	85	520
Type-writer desk.....	M. J. Hafgar.....	600,580	Mar. 15	1763	402 403	82	1593
Type-writer indicating mechanism.....	E. J. Manning .....	609,036	Aug. 16	1617	385	84	1000
Type-writer keyboard .....	B. Torrey .....	606,903	July 5	482	104	84	95
Type-writer platen.....	J. G. Lawrence .....	599,183	Feb. 15	1891	448	82	994
Type-writer reverse-feed.....	T. A. Maulsby .....	616,549	Dec. 27	2492	577	85	1951
Type-writer ribbon.....	J. T. Underwood .....	614,187	Nov. 15	1685	387	85	982
Type-writer-ribbon holder.....	R. G. Hopkins .....	599,504	Feb. 22	2516	592	82	1137
Type-writer scale.....	C. H. Shepard .....	614,901	Nov. 29	3007	689	85	1259
Type-writer scale-bar.....	J. F. Deacon.....	614,795	Nov. 22	2802	643	85	1204
Type-writer tabulating mechanism .....	E. J. Manning .....	609,517	Aug. 23	2514	588 589	84	1191
Type-writers or like machines. Counting appa- ratus for	W. Fish.....	601,641	Apr. 5	29	6	83	8
Type-writers or the like. Support for .....	J. F. Gregory .....	606,889	July 5	462	99	84	91
Type-writing machine .....	F. F. Anderson and T. Krauss.....	597,664	Jan. 18	2075	486 487	82	438
Type-writing machine .....	S. M. Balzer .....	608,634	Aug. 9	835	193 194	84	838
Type-writing machine .....	E. A. Brigham.....	607,405	July 12	1442	307	84	294
Type-writing machine .....	B. A. Brooks.....	598,653	Feb. 8	1004	242 243	82	810



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Type-writing machine .....	B. A. Brooks .....	608,831	Aug. 9	1214	284	84	909
Type-writing machine .....	A. T. Brown .....	615,843	Dec. 6	210	52 53 54	85	1454
Type-writing machine .....	T. Cahill .....	600,119	Mar. 1	903	207 208 209	82	1391
Type-writing machine .....	T. Cahill .....	600,120	Mar. 1	916	210 211 312	82	1394
Type-writing machine, &c .....	T. Cahill .....	604,001	May 10	1371	313 314 315	83	884
Type-writing machine .....	A. B. Dick .....	598,882	Feb. 8	1376	331 332	82	882
Type-writing machine .....	L. P. Diss .....	599,417	Feb. 22	2334	551 552	82	1103
Type-writing machine .....	L. P. Diss .....	607,226	July 12	1107	238 239	84	230
Type-writing machine .....	L. P. Diss .....	614,244	Nov. 15	1810	418	85	1004
Type-writing machine .....	C. Elliott .....	615,017	Nov. 29	3240	744 745	85	1305
Type-writing machine .....	J. M. Fairfield .....	605,864	June 21	1514	348	83	1678
Type-writing machine .....	J. Felbel .....	610,390	Sept. 6	482	105	84	1531
Type-writing machine .....	J. Felbel .....	613,365	Nov. 1	262	59 60 61	85	667
Type-writing machine .....	W. R. Fox and G. J. Barrett .....	614,943	Nov. 29	3104	713 714	85	1279
Type-writing machine .....	E. B. Hess and J. M. Stoughton .....	610,400	Sept. 6	495	108 109	84	1534
Type-writing machine .....	F. W. Hillard .....	616,840	Dec. 27	3012	702	85	2053
Type-writing machine .....	W. B. Hopkins .....	613,201	Oct. 25	2820	667 668 669	85	589
Type-writing machine .....	E. E. Horton .....	605,877	June 21	1534	353 354	83	1681
Type-writing machine .....	E. von Hülsen .....	606,416	June 28	2578	596 597	83	1899
Type-writing machine .....	E. G. Latta .....	605,201	June 7	258	60 61 62	83	1399
Type-writing machine .....	E. J. Manning .....	612,858	Oct. 25	2276	543 543	85	478
Type-writing machine .....	N. R. Marshman and L. S. Burridge .....	599,397	Feb. 22	2302	544 545	82	1096
Type-writing machine .....	A. A. Morse .....	599,187	Feb. 15	1897	449 450	82	995
Type-writing machine .....	T. Oliver .....	599,863	Mar. 1	350	80, 81	82	1280
Type-writing machine .....	J. F. J. Otterson .....	614,974	Nov. 29	3165	727	85	1292
Type-writing machine .....	B. F. Palmer .....	597,015	Jan. 11	976	230 231 235	82	206
Type-writing machine .....	E. Pastre and F. Lambert .....	607,270	July 12	1194	256 257	84	247
Type-writing machine .....	J. Pratt .....	613,173	Oct. 25	2772	653 654	85	578
Type-writing machine .....	W. P. Quentell .....	607,274	July 12	1210	258 259	84	250
Type-writing machine .....	W. P. Quentell .....	611,146	Sept. 20	1813	417 418	84	1825
Type-writing machine .....	W. P. Quimby .....	613,603	Nov. 1	688	159	85	747
Type-writing machine .....	E. S. Shimer .....	616,023	Dec. 13	1465	342	85	1711
Type-writing machine .....	W. H. Slocum .....	614,216	Nov. 15	1741	400 401	85	992
Type-writing machine .....	P. W. Southgate .....	605,616	June 14	1018	234 235	83	1567
Type-writing machine .....	F. G. Stallman .....	606,743	July 5	188	42, 43	84	38
Type-writing machine .....	B. C. Stickney .....	609,476	Aug. 23	2442	571 572 573	84	1176
Type-writing machine .....	R. Turner .....	597,038	Jan. 11	1009	238 239	82	212
Type-writing machine .....	C. D. Wallace .....	615,327	Dec. 6	181	46	85	1448
Type-writing machine .....	G. B. Webb .....	599,428	Feb. 22	2364	556 557 558	82	1109
Type-writing machine .....	G. B. Webb .....	599,429	Feb. 22	2377	558 559	82	1112
Type-writing machine .....	G. B. Webb .....	605,264	June 7	397	90	83	1427
Type-writing machine .....	G. B. Webb .....	616,511	Dec. 27	2426	561 562	85	1939
Type-writing machine .....	F. S. Wendelken .....	614,680	Nov. 22	2609	592 593	85	1165
Type-writing machine .....	E. Wentscher .....	605,619	June 14	1035	238	83	1569
Type-writing machine .....	J. N. Williams .....	614,917	Nov. 29	3037	695 696	85	1264
Type-writing-machine carriage-reverser .....	J. Larrabee .....	597,723	Jan. 25	2180	509	82	474
Type-writing-machine erasing attachment .....	J. H. Dickinson .....	613,501	Nov. 1	524	118	85	715
Type-writing-machine erasing-plate .....	A. S. Johnson .....	602,559	Apr. 19	1670	379	83	346
Type-writing-machine interlocking device .....	C. Sears .....	606,944	July 5	539	118	84	107
Type-writing-machine keyboard .....	E. B. Kirby .....	597,775	Jan. 25	2269	530 531	82	491
Type-writing-machine keyboard .....	E. B. Kirby .....	597,776	Jan. 25	2277	532	82	492
Type-writing-machine paper holder and feeder .....	R. W. Shade .....	615,502	Dec. 6	544	124	85	1517
Type-writing-machine ribbon-spool .....	H. H. Unz .....	605,032	May 31	3271	751	83	1318



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Type-writing-machine type-cleaner .....	J. Oppenheim .....	616,422	Dec. 20	2245	523	85	1883
Type-writing-machine word-counter .....	M. S. Moseley .....	608,428	Aug. 2	471	106	84	749
Type-writing-machine word-register .....	F. A. Hassler .....	610,181	Sept. 6	53	12	84	1451
Type-writing-machine word-register .....	E. McHugh .....	614,492	Nov. 22	2274	520	85	1105
Type-writing machines. Automatic device for returning carriages for	W. E. Jackson, Jr .....	606,669	July 5	60	13	84	14
Type-writing machines. Ball-bearing for type-bars for	F. J. Dyett .....	615,823	Dec. 13	1100	258	85	1641
Type-writing machines. Carriage-feed mechanism for	J. B. Price .....	606,940	July 5	534	117	84	106
Type-writing or printing machine .....	O. E. Converse .....	608,440	Aug. 2	487	110	84	752
Ullster .....	J. Hirsh .....	600,284	Mar. 8	1235	280	82	1475
Umbrella .....	J. H. Fleisch .....	616,307	Dec. 20	2029	472	85	1842
Umbrella .....	C. E. O. Hager .....	601,096	Mar. 22	2612	596	82	1769
Umbrella .....	R. V. Hill .....	596,752	Jan. 4	529	121	82	102
Umbrella .....	N. Illoay .....	597,717	Jan. 25	2172	507	82	472
Umbrella .....	E. E. Mallory .....	612,045	Oct. 11	811	200	85	169
Umbrella .....	E. E. Mallory .....	612,253	Oct. 11	1181	283	85	239
Umbrella .....	W. E. Moulton .....	599,623	Feb. 22	2729	638	82	1178
Umbrella .....	T. A. and A. C. Wilkinson .....	612,291	Oct. 11	1246	299	85	251
Umbrella .....	T. A. and F. A. Wilkinson .....	612,292	Oct. 11	1247	300	85	251
Umbrella and cane. Combined .....	E. Hugendubel .....	609,435	Aug. 23	2356	556	84	1162
Umbrella and holder .....	W. S. Lines .....	602,760	Apr. 19	2017	457	83	412
Umbrella attachment .....	F. Searle .....	616,736	Dec. 27	2851	661	85	2021
Umbrella fan attachment .....	K. E. Landau .....	610,358	Sept. 6	418	90	84	1519
Umbrella. Folding .....	F. G. Grove and F. E. Stover .....	608,453	Aug. 2	508	114	84	756
Umbrella. Folding .....	F. G. Grove and F. E. Stover .....	612,333	Oct. 11	1312	317	85	263
Umbrella. Folding .....	F. E. Stover and F. G. Grove .....	606,099	June 21	1969	452	83	1762
Umbrella. Folding .....	M. R. Studams .....	608,925	Aug. 9	1397	330	84	944
Umbrella. Folding or telescoping .....	C. H. Ely, J. W. Danser, and F. B. Rue .....	600,219	Mar. 8	1118	255	82	1453
Umbrella-frame .....	F. E. Mitchell .....	600,289	Mar. 8	1240	282	82	1476
Umbrella-handle .....	M. K. Woods .....	615,055	Nov. 29	3323	764	85	1320
Umbrella-holder .....	W. H. Holcombe .....	600,421	Mar. 8	1449	331	82	1516
Umbrella-holder .....	H. Paddock and H. L. Freeborn .....	616,555	Dec. 27	2504	579	85	1953
Umbrella-holder .....	L. A. D. Northrop .....	603,964	May 10	1297	296	83	869
Umbrella-holder .....	H. T. Stuckey .....	606,398	June 28	2545	590	83	1892
Umbrella or parasol. Folding .....	E. E. Mallory .....	608,694	Aug. 9	943	217	84	862
Umbrella or parasol stick or rod .....	W. S. Seymour .....	611,289	Sept. 27	2102	484	84	1900
Umbrella, parasol, &c .....	J. Simpson .....	607,711	July 19	2170	457	84	456
Umbrella-rack. Safety .....	H. W. Hoeft .....	600,533	Mar. 15	1685	384	82	1580
Umbrella-rib .....	J. Doughty .....	597,105	Jan. 11	1144	270	82	239
Umbrella-rib .....	J. G. Missimer .....	605,113	June 7	78	22	83	1367
Umbrella rib and stretcher .....	J. L. Conaway .....	599,416	Feb. 22	2333	551	82	1102
Umbrella-rib-tip cup .....	J. Allesina .....	615,516	Dec. 6	563	129	85	1521
Umbrella. Self-closing .....	W. N. Stevenson .....	607,141	July 12	952	207	84	202
Umbrella. Self-closing .....	F. E. Stover .....	604,275	May 17	1923	430	83	1024
Umbrella. Self-closing .....	W. W. Trimpi .....	598,828	Feb. 8	1283	310	82	863
Umbrella. Self opening or closing .....	E. Kleber .....	604,495	May 24	2351	533	83	1123
Umbrella-support .....	R. Miller .....	602,662	Apr. 19	1865	424	83	383
Umbrella-tip combination-lock .....	C. McCurdy .....	606,426	June 28	2606	601	83	1906
Umbrellas, &c. Carrier for .....	C. H. McCormack .....	608,472	Aug. 2	543	121	84	763
Umbrellas or parasols. Detachable handle for .....	S. S. Fretz .....	605,708	June 14	1192	275	83	1600
Underfeed furnace .....	I. D. Smead .....	599,021	Feb. 15	1634	386	82	947
Undergarment .....	E. A. Clements .....	599,118	Feb. 15	1786	426	82	976
Undergarment .....	I. Goldberger .....	602,320	Apr. 12	1268	280	83	256
Undergarment .....	I. Goldberger .....	606,202	June 28	2156	495	83	1817
Undergarment .....	I. Goldberger .....	606,203	June 28	2158	496	83	1817
Undergarment .....	A. G. Velasko .....	604,163	May 17	1715	386	83	983
Undergarment-trunk .....	L. Sittig .....	602,188	Apr. 12	1052	230	83	212
Underskirt .....	S. Cain .....	604,964	May 31	3152	725	83	1296
Unicycle .....	W. M. Carey .....	607,829	July 26	2405	511	84	520
Unicycle .....	E. J. Christie .....	596,480	Jan. 4	23	6	82	7
Unicycle .....	V. D. Venable .....	611,534	Sept. 27	2552	589	84	1983
Universal or ball joint .....	F. Richter .....	610,920	Sept. 20	1393	319	84	1745
Universal indicator .....	C. E. Hauer .....	598,927	Feb. 15	1461	349	82	913
Universal joint .....	J. M. Nash .....	599,189	Feb. 15	1903	450	82	996
Universal joint .....	F. H. Richards .....	608,625	Aug. 9	815	189	84	835
Upholsterer's tufting apparatus .....	W. J., T. F., P. H., and J. A. Kelly .....	612,734	Oct. 18	2024	480	85	411
Upholstering .....	T. H. Parry .....	612,174	Oct. 11	1032	248	85	212
Upholstering apparatus .....	W. J., T. F., P. H., and J. A. Kelly .....	599,239	Feb. 15	1984	471	82	1012
Upholstering apparatus .....	W. J., T. F., P. H., and J. A. Kelly .....	599,240	Feb. 15	1986	472	82	1012
Upholstery. Apparatus for forming tufted .....	E. H. Hebenstreit .....	612,497	Oct. 18	1592	380	85	330
Upholstery. Device for forming tufted .....	E. Hahn .....	610,741	Sept. 13	1072	246	84	1665
Upholstery. Apparatus for making .....	A. Freschl .....	616,097	Dec. 20	1618	378	85	1759
Urinal-pan .....	T. H. Hutchinson .....	602,080	Apr. 12	849	185	83	172
Urn for buffet-cars. Heating- .....	R. M. Dixon .....	604,736	May 31	2784	637	83	1224
Vaccine-carrier and case .....	R. Walsh .....	616,042	Dec. 13	1500	351	85	1719
Vacuum-pan .....	H. G. Boswell .....	604,598	May 24	2529	576	83	1156
Vacuum-pans. Vapor-condenser for .....	W. and A. W. Dunn .....	604,607	May 24	2545	581	83	1160
Vacuum-producing apparatus .....	W. E. May .....	611,455	Sept. 27	2417	554	84	1957
Vacuums. Apparatus for producing high .....	A. Barr and W. Stroud .....	604,486	May 24	2338	530	83	1121
Vacuums. Producing high .....	E. F. Dwyer .....	596,654	Jan. 4	348	76	82	69
Valise-seat and lunch vessel .....	P. Nicolle .....	609,696	Aug. 23	2854	667	84	1256
Valve .....	M. Abt .....	604,595	May 24	2526	575	83	1155
Valve .....	L. Aldrich .....	615,778	Dec. 13	1028	241	85	1627
Valve .....	P. D. Ball .....	609,726	Aug. 23	2895	676	84	1264
Valve .....	I. Bean .....	605,989	June 21	1760	404	83	1723



*Alphabetical list of inventions—Continued*

Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Valve.	F. M. Bell.	610,253	Sept. 6	204	45	84	1481
Valve.	J. L. Black.	605,693	June 14	1168	269	83	1595
Valve.	R. C. Bromley.	605,384	June 7	626	140	83	1472
Valve.	R. H. Buckingham.	603,592	May 3	633	141	83	724
Valve.	W. Burnett.	606,404	June 28	2553	592	83	1894
Valve.	J. Collis.	610,873	Sept. 13	1320	303	84	1717
Valve.	J. L. Cook.	611,994	Oct. 4	702	169	85	138
Valve.	C. R. Dallas.	604,732	May 31	2777	635	83	1223
Valve.	E. J. Dolan.	613,623	Nov. 1	720	167	85	754
					168		
Valve.	M. Groignard.	605,711	June 14	1196	275	83	1600
					276		
Valve.	C. Gulland.	608,454	Aug. 2	511	115	84	757
Valve.	S. Haigh.	599,059	Feb. 15	1691	401	82	959
Valve.	J. E. Heindl.	598,248	Feb. 1	312	72	82	661
Valve.	W. Heston.	607,238	July 12	1141	243	84	236
Valve.	B. W. Hill. (Reissue).	11,652	Mar. 1	975	217	82	1408
Valve.	R. Holmes.	597,415	Jan. 18	1654	384	82	354
Valve.	W. I. Hoover.	606,867	July 5	434	93	84	86
Valve.	H. Hörbiger.	604,326	May 17	2023	453	83	1042
Valve.	J. and W. H. Jamer.	616,575	Dec. 27	2532	586	85	1958
Valve.	G. Johansson.	605,549	June 14	885	207	83	1544
Valve.	D. Lamond.	616,543	Dec. 27	2483	575	85	1949
Valve.	A. F. Little.	608,882	Aug. 9	1303	303	84	926
Valve.	E. H. Lunken.	607,252	July 12	1166	249	84	240
Valve.	S. H. McCarroll.	604,835	May 31	2938	672	83	1254
Valve.	J. F. McElroy.	608,342	Aug. 2	321	71	84	720
Valve.	C. B. Mitchell.	616,796	Dec. 27	2949	687	85	2040
Valve.	J. L. Mohun and C. S. Clark.	616,682	Dec. 27	2748	638	85	1999
Valve.	W. C. Parsells.	600,249	Mar. 8	1172	266	82	1463
Valve.	H. J. Schmitt and R. Bonnell.	604,592	May 24	2520	573	83	1154
Valve.	W. H. Shay.	604,846	May 31	2958	677	83	1257
Valve.	W. G. Urmson.	604,809	May 31	2898	663	83	1246
Valve.	C. K. Welch.	598,125	Feb. 1	90	21	82	620
Valve.	F. W. Wood.	612,890	Oct. 25	2334	555	85	490
					556		
Valve.	E. Zertuche.	606,906	July 5	485	105	84	96
Valve. Air-	S. C. Arnold.	597,666	Jan. 18	2083	488	82	439
Valve. Air-	W. J. Bullock.	611,211	Sept. 20	1919	444	84	1845
Valve. Air-	W. De Lany, Jr.	598,217	Feb. 1	261	58	82	652
Valve. Air-	C. F. Paige and S. C. Arnold.	601,213	Mar. 22	2815	644	82	1807
Valve. Air-	E. A. Rix.	602,170	Apr. 12	1016	223	83	204
Valve. Air-brake.	J. F. Carpenter.	606,513	June 28	2734	631	83	1932
Valve. Air-brake.	W. O. Gunckel.	601,252	Mar. 29	2898	660	82	1850
Valve. Air-brake.	W. O. Gunckel.	604,612	May 24	2551	582	83	1161
Valve and fluid-dispenser.	H. Comer.	607,019	July 12	690	150	84	156
Valve. Antifreezing.	M. Farrell.	602,737	Apr. 19	1986	450	83	406
Valve attachment for radiators, &c. Air-	W. A. Russell.	614,276	Nov. 15	1865	431	85	1014
Valve. Automatic.	C. B. Shaw.	613,891	Nov. 8	1191	272	85	864
Valve. Automatic relief-	M. Swenson.	607,491	July 19	1781	371	84	385
Valve. Back-pressure.	W. F. Harrison.	616,100	Dec. 20	1622	380	85	1760
Valve. Balanced.	J. T. Wilson.	605,943	June 21	1669	382	83	1707
Valve. Balanced.	G. S. Wolf.	599,922	Mar. 1	469	106	82	1302
Valve. Balanced slide-	J. Campbell.	606,119	June 21	2005	460	83	1769
Valve. Ball-cock.	J. H. McPartland.	608,897	Aug. 9	1323	308	84	930
Valve. Blow-off.	D. McLean.	607,265	July 12	1187	254	84	245
Valve-check.	J. Ewart.	610,479	Sept. 6	631	141	84	1559
					142		
Valve. Check-	J. Stromvall.	599,650	Feb. 22	2793	650	82	1192
Valve. Check and back-pressure.	E. P. Sands.	615,751	Dec. 13	970	225	85	1616
Valve closers. Governing device for throttle.	J. R. Reynolds.	599,013	Feb. 15	1614	383	82	943
Valve closers. Governing mechanism for throttle.	J. R. Reynolds.	604,840	May 31	2948	674	83	1256
Valve. Combined check and stop.	L. Buehler.	610,470	Sept. 6	616	138	84	1557
Valve. Composition disk.	R. T. Crane.	600,360	Mar. 8	1354	310	82	1497
Valve-controller.	A. E. Colgate.	602,429	Apr. 19	1451	329	83	306
Valve. Controlling-	G. W. Dodge.	614,798	Nov. 22	2806	644	85	1205
Valve. Controlling-	A. D. Donaldson.	600,829	Mar. 15	2171	495	82	1671
Valve-controlling apparatus.	F. T. Mueller.	598,571	Feb. 8	865	207	82	785
					208		
Valve-controlling device.	W. S. Alexander.	604,358	May 24	2091	469	83	1075
Valve-controlling device. Electrical.	A. E. Colgate.	605,197	June 7	251	59	83	1398
Valve-controlling means. Tank-	C. G. Miller.	611,435	Sept. 27	2386	547	84	1950
Valve-coupling.	N. H. Medbery.	609,207	Aug. 16	1933	459	84	1058
					460		
Valve. Cut-off.	E. C. Wiley.	607,975	July 26	2677	572	84	571
Valve. Cylindrical balanced gate-	T. A. Noble.	616,724	Dec. 27	2835	656	85	2017
					657		
Valve device.	F. A. Bates.	599,466	Feb. 22	2445	575	82	1123
Valve device. Compound-engine.	E. F. C. Davis.	603,441	May 3	344	77	83	666
Valve device. Regulating-	J. H. Champ.	610,938	Sept. 20	1424	327	84	1751
Valve. Differential piston-	N. Power.	603,922	May 10	1237	280	83	856
Valve. Dip-pipe.	G. R. Hislop.	610,538	Sept. 13	740	169	84	1597
Valve. Engine-	W. J. Allen.	613,954	Nov. 8	1284	292	85	882
Valve. Engine-	A. G. Hay.	603,380	May 3	231	52	83	645
Valve. Engine-	J. Molas.	608,064	July 26	2848	607	84	607
Valve. Engine-	M. B. Sellers.	608,483	Aug. 2	560	125	84	767
Valve. Faucet-	F. F. Field.	611,781	Oct. 4	327	78	85	66
Valve. Float-	J. H. Fogarty.	606,655	July 5	32	7	84	8
Valve. Float-operated.	R. W. Hyers.	596,880	Jan. 4	738	173	82	144
Valve. Fluid-actuated.	C. N. Dutton.	609,089	Aug. 16	1712	407	84	1019
					408		
Valves. Fluid-pressure-regulating.	W. P. and R. P. Thompson.	613,737	Nov. 8	925	211	85	813
					212		
Valve. Flushing-	J. W. Bragger.	597,946	Jan. 25	2574	601	82	549
Valve for air and gases. Liquid-sealed.	J. R. Hannan.	607,035	July 12	721	154	84	161
					155		



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				Spec.	Dr'g.	Vol.	Page.
Valve for air-brake mechanism. Triple	A. G. Kinyon	601,304	Mar. 29	3014	680	82	1874
Valve for air-brakes. Triple	A. G. Kinyon	610,237	Sept. 6	179	40	84	1476
Valve for automatic sprinkler systems	G. E. Higgins and W. C. Hibbard	614,718	Nov. 22	2674	609	85	1178
Valve for automatic sprinklers. Duplex induction	C. W. Kersteter	606,787	July 5	292	60	84	58
Valve for brake mechanism. Lock	M. O'Sullivan	606,680	July 5	84	18	84	19
Valve for compensating for leakage in train-pipes. Feed	C. P. and D. B. Tipton	601,602	Mar. 29	3497	797	82	1968
Valve for compound engines. Intercepting	J. F. Murphy	607,569	July 19	1919	397 398	84	409
Valve for controlling locomotive-blowers. Throttle	A. Palla	609,830	Aug. 30	3080	718	84	1313
Valve for flush-tanks. Inlet	B. Dale	605,084	June 7	27	8	83	1358
Valve for gas-pipes. Check	A. H. Hall	612,414	Oct. 18	1458	352	85	305
Valve for hose-couplings. Automatic stop	G. W. Edgington	610,035	Aug. 30	3446	798	84	1385
Valve for hydraulic presses. Electrically-controlled	W. B. Cleveland	610,524	Sept. 13	715	162	84	1593
Valve for inflation	J. H. Goss	610,985	Sept. 20	1520	349	84	1769
Valve for locomotives or other engines. Steam	S. A. Hinton	605,282	June 7	428	96	83	1433
Valve for siphon-heads, spigots, &c	F. C. Schrader	598,578	Feb. 8	875	209	82	787
Valve for water pipe-lines. Air	T. A. Noble	598,386	Feb. 1	538	131 132	82	704
Valve for water-tanks. Inlet	J. N. Poage	610,242	Sept. 6	186	42	84	1478
Valve. Gate	A. N. Heine and W. K. H. Woerner	600,363	Mar. 8	1357	311	82	1498
Valve. Gate	A. L. Hyde	608,681	Aug. 9	924	213	84	657
Valve. Gate	A. J. Moxham	605,968	June 21	1720	294	83	1716
Valve. Gate	C. Smith	600,181	Mar. 8	1060	239	82	1441
Valve-gear	A. Bever	609,772	Aug. 30	2967	694	84	1291
Valve-gear	L. A. Lang	607,058	July 12	789	171 172	84	172
Valve-gear	W. Lowe	602,343	Apr. 12	1302	289	83	262
Valve-gear. Engine	J. B. Allfree	613,184	Oct. 25	2791	658 659	85	583
Valve-gear. Engine	W. H. Cutler and S. V. Godden	612,196	Oct. 11	1064	255 256	85	218
Valve-gear. Engine	J. P. Dorau	607,837	July 26	2431	516	84	524
Valve-gear. Engine	R. S. Hill	611,430	Sept. 27	2378	546	84	1949
Valve-gear for steering apparatus	G. H. Waters	600,698	Mar. 15	1962	447	82	1632
Valve-gear. Link	J. A. Rost	616,017	Dec. 13	1455	340	85	1709
Valve-gears. Dash-pot for	C. E. Shadall	611,337	Sept. 27	2184	505	84	1915
Valve. Globe	C. M. Callanan	605,389	June 7	635	142	83	1474
Valve. Globe	G. G. Welsh	613,830	Nov. 8	1085	247	85	843
Valve-grinding machine	L. D. Castle	616,053	Dec. 13	1520	355 356	85	1722
Valve-handle	H. R. Frisbie	604,696	May 24	2707	618	83	1190
Valve. Hydraulic-elevator	J. P. Davis	604,230	May 17	1837	412	83	1007
Valve-indicator	E. L. Rowe	606,584	June 28	2877	663	83	1959
Valve. Inflation	J. H. Goss	616,836	Dec. 27	3007	701	85	2052
Valve lock. Flushing	C. H. Shepherd	608,485	Aug. 2	562	126	84	767
Valve lubricating device. Slide	J. P. Serve	610,000	Aug. 30	3386	785	84	1373
Valve mechanism	A. Ball	614,073	Nov. 15	1478	339	85	943
Valve mechanism	H. E. Ludwig	612,950	Oct. 25	2424	577	85	508
Valve mechanism	H. E. Ludwig	612,951	Oct. 25	2426	578	85	509
Valve mechanism. Engine	C. W. Thompson	605,030	May 31	3265	750 751	83	1317
Valve mechanism for tanks. Automatic	J. T. Thatcher	600,972	Mar. 22	2407	550	82	1730
Valve mechanism. Mining-machine	A. Ball and T. Officer	615,234	Dec. 6	3	1	85	1411
Valve mechanism. Mining-machine	A. Ball and T. Officer	615,235	Dec. 6	6	1, 2	85	1412
Valve-motion	S. M. Vauclain	615,202	Nov. 29	3617	831 832	85	1378
Valve-movement. Steam-engine	C. C. Worthington	609,953	Aug. 30	3286	766 767	84	1354
Valve. Multiple gate	J. Knickerbacker	601,472	Mar. 29	3293	745	82	1926
Valve-operating device	W. A. Drewett	603,399	May 3	268	60	83	651
Valve-operating mechanism	F. A. Burdett	600,944	Mar. 22	2369	539	82	1723
Valve or faucet	G. B. Kamerer	613,041	Oct. 25	2564	609	85	536
Valve. Pilot	T. E. Brown, Jr.	597,388	Jan. 18	1610	375	82	347
Valve. Piston	W. F. Niebling	616,250	Dec. 20	1929	447	85	1820
Valve. Plug	H. A. Freeman	611,899	Oct. 4	532	129 130	85	106
Valve. Pressure	T. A. King	615,623	Dec. 6	751	174	85	1560
Valve. Reciprocating	L. Swenson	616,275	Dec. 20	1975	460	85	1830
Valve. Reducing	C. E. Rettew and W. R. Johnson	608,345	Aug. 2	324	71	84	720
Valve-regulating mechanism. Cut-off	M. Hanner	610,047	Aug. 30	3461	802	84	1388
Valve. Regulator	E. J. Toof	597,445	Jan. 18	1719	397	82	367
Valve. Relief	L. O. Dehnel	606,053	June 21	1883	433	83	1745
Valve. Relief	J. C. Parker	608,217	Aug. 2	89	23	84	673
Valve-remodeling device	C. E. Huxley	598,662	Feb. 8	1022	246 247	82	814
Valve. Reverse	S. Forter	603,103	Apr. 26	2623	596	83	542
Valve-reversing gear	F. Quinn	606,358	June 28	2473	574	83	1879
Valve. Rotating cut-off	E. Seymour	607,089	July 12	861	187	84	186
Valve. Rotary	B. W. Smith	614,139	Nov. 15	1603	368	85	967
Valve. Rotary cut-off	J. A. Kollmyer	598,153	Feb. 1	132	30, 31	82	628
Valve. Safety	E. Lizé	611,496	Sept. 27	2494	575 576	84	1972
Valve safety attachment	J. A. Griffiths	596,497	Jan. 4	56	13	82	14
Valve-seat	W. B. Henion	610,744	Sept. 13	1075	247	84	1666
Valve-seats. Implement for remodeling	C. E. Huxley	614,226	Nov. 15	1760	404	85	996
Valve. Self-regulating	L. Hawkins	615,550	Dec. 6	627	143	85	1534
Valve. Sewer	Z. Latshaw	604,117	May 17	1637	367	83	967
Valve. Slide	O. Morris	607,944	July 26	2627	557	84	561
Valve. Steam	P. Schoen	614,311	Nov. 15	1916	442	85	1024
Valve. Steam-actuated	J. Appleton	601,227	Mar. 29	2851	651	82	1841
Valve. Steam-actuated	E. H. De Lany	604,489	May 24	2343	531	83	1121
Valve. Steam-actuated	J. B. Rhodes	612,437	Oct. 18	1491	360	85	311
Valve. Steam-engine	C. R. Hammell	596,702	Jan. 4	441	100	82	86
Valve. Steam-engine	H. Müller	608,525	Aug. 2	632	142	84	780
Valve. Steam-engine	E. L. Sauer	597,436	Jan. 18	1693	392	82	862



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Valve. Steam-engine	T. W. Scott	596,624	Jan. 4	294	65	82	59
Valve. Stop	W. Craig	597,141	Jan. 11	1199	281	82	249
Valve. Stop	J. Hopkinson	611,484	Sept. 27	2475	571	84	1968
Valve. Stop	H. H. Riggins	610,723	Sept. 13	1048	241	84	1661
Valve-stopper and pouring-nozzle	A. B. Powers	610,949	Sept. 20	1447	332	84	1756
Valve. Straightway	W. C. Jennings	596,885	Jan. 4	743	175	82	145
Valve. Straightway	J. Powell	610,412	Sept. 6	517	113	84	1538
Valve. Straightway or gate	S. G. Reed	606,812	July 5	332	7	84	67
Valve. Swab	F. Jackson	611,486	Sept. 27	2478	571	84	1968
Valve. Tank	C. L. Scott	602,525	Apr. 19	1614	369	83	336
Valve. Tank supply	H. Lecher and C. Kirchhahn	602,512	Apr. 19	1592	364	83	333
Valve. Testing	G. E. Loebble and F. Katzenberger	610,452	Sept. 6	579	128	84	1549
Valve. Thermostatic	M. Leitch	604,403	May 24	2162	486	83	1089
Valve. Thermostatic	J. A. Serrell and M. Leitch	600,653	Mar. 15	1869	427	82	1614
Valve. Throttle	B. W. Grist	596,871	Jan. 4	728	170	82	142
Valve. Throttle	W. F. Harrison	608,197	Aug. 2	56	13	84	666
Valve. Throttle	A. K. Mansfield	604,771	May 31	2838	649	83	1234
Valve. Time-operating	T. Kitson	613,155	Oct. 25	2744	647	85	573
Valve. Triple	J. V. Wells	609,312	Aug. 16	2151	509	84	1104
Valve. Trough	C. E. Tomlinson	616,164	Dec. 20	1765	409	85	1788
Valve. Water-heater	H. F. Gabel	606,132	June 21	2033	465	83	1773
Valve wheel. Steam	B. G. Wieder	608,740	Aug. 9	1022	234	84	875
Valves, boring cylinders, &c. Apparatus for re-seating	P. J. Purdy	608,577	May 3	605	134	83	718
Valves, boring cylinders, &c. Apparatus for re-seating	P. J. Purdy	605,810	June 14	1882	317	83	1634
Valves. Electric controlling apparatus for switch	E. G. Harris	607,036	July 12	723	155	84	161
Valves. Means for securing washers on plug	I. N. Glauber	615,616	Dec. 6	736	169	85	1557
Valved union	J. Plant	613,600	Nov. 1	685	158	85	746
Vapor-burner	H. C. Hornish	601,752	Apr. 5	250	49	83	48
Vapor-burner	G. Johnson	606,721	July 5	156	35	84	32
Vapor-burner	H. F. Smith	610,334	Sept. 6	375	79	84	1512
Vapor-burner. Incandescent	C. V. Best	615,010	Nov. 29	3224	741	85	1302
Vapor-burning apparatus	A. Kitson	598,491	Feb. 1	717	174	82	738
Vapor-burning apparatus	A. Kitson	600,792	Mar. 15	2113	483	82	1661
Vapor-burning apparatus	A. Kitson	601,199	Mar. 22	2791	639	82	1803
Vapor-burning apparatus	A. Kitson	607,995	July 26	2716	579	84	578
Vapor-burning apparatus	A. Kitson	607,996	July 26	2717	579	84	579
Vapor-burning apparatus	A. Kitson	608,051	July 26	2832	603	84	604
Vapor-burning apparatus	A. Kitson	613,685	Nov. 8	806	185	85	791
Vapor engine. Combustible	G. H. Gere	598,986	Feb. 15	1571	373	82	935
Vapor-engine. Multiple-cylinder	R. B. Hain	599,653	Feb. 22	2798	651	82	1193
Vapor-generating and heating apparatus	E. S. Griffith	611,198	Sept. 20	1894	437	84	1841
Vapor generator and burner	J. G. W. Entwistle, F. Starr, O. P. Talley, and H. E. Lorance	603,680	May 10	800	176	83	773
Vaporizer	J. H. Kastle, M. L. Ravitch, and A. S. Lowenhart	608,967	Aug. 9	1463	346	84	957
Vaporizer for hydrocarbon oils	W. H. Phelps	609,557	Aug. 23	2579	604	84	1203
Vaporizing apparatus. Oil	L. E. Fraipont	605,865	June 21	1516	348	83	1678
Vaporizing mineral oils, &c. Apparatus for	R. A. Poltramol	607,951	July 26	2640	560	84	563
Variopolar motor or dynamo	H. H. Wait	599,815	Mar. 1	264	59	82	1262
Varnish	C. Day	607,348	July 12	1334	---	84	275
Varnish. Baking	J. Peterson	604,785	May 31	2861	---	83	1239
Vault. Burial	B. F. Van Camp	597,625	Jan. 18	2010	469	82	426
Vault-cover. Ventilating	J. Jacobs	606,554	June 28	2826	651	83	1949
Vault. Grave	B. F. Douglas	606,652	July 5	29	6	84	8
Vault. Grave	G. G. Owen	606,230	June 28	2228	512	83	1830
Vault. Portable grave	B. F. Lockwood	609,358	Aug. 16	2218	524	84	1117
Vault. Safety-deposit	E. C. Shankland	597,694	Jan. 18	2131	498	82	447
Vaults. Apparatus for ascertaining temperature of	E. Pehl and E. J. Markel	611,866	Oct. 4	478	116	85	96
Vaulting gate	I. E. Marshall	598,227	Feb. 1	276	62	82	655
Vegetable-washing machine	C. Sipple of C	599,535	Feb. 22	2561	601	82	1145
Vegetables, fruit, &c. Apparatus for cutting and slicing	T. Mabbett	597,009	Jan. 11	968	229	82	204
Vegetation. Compound for destroying	W. M. Fletcher	602,739	Apr. 19	1990	---	83	407
Vehicle	G. J. Altham	614,781	Nov. 22	2776	634	85	1199
Vehicle	T. J. Cox	615,531	Dec. 6	586	134	85	1526
Vehicle	G. Ludwig	605,887	June 21	1558	358	83	1687
Vehicle	J. A. Mehling	612,117	Oct. 11	988	227	85	194
Vehicle	N. Weston	606,611	June 28	2923	678	83	1967
Vehicle and rocker. Convertible	C. W. Weddell and J. K. Waters	606,494	June 28	2709	624	83	1927
Vehicle attachment	M. J. F. Scanlan	616,636	Dec. 27	2652	614	85	1981
Vehicle. Automobile	W. A. Crowds	598,314	Feb. 1	430	102	82	683
Vehicle-body	M. Woodhull	602,550	Apr. 19	1657	377	83	344
Vehicle-body corner-iron	J. W. Dipman and A. Exline	603,814	May 10	1035	231	83	819
Vehicle-body corner-iron	A. W. Springer	607,490	July 19	1780	370	84	385
Vehicle-body-loop	H. C. Swan	597,304	Jan. 11	1453	340	82	299
Vehicle-body spring-hanger	J. McCrudden	605,296	June 7	458	102	83	1439
Vehicle-bow trimming	F. Buob	596,803	Jan. 4	613	141	82	118
Vehicle-brake	R. M. Artus	604,286	May 17	1942	435	83	1027
Vehicle-brake	F. W. Chadwick	610,523	Sept. 13	714	162	84	1592
Vehicle-brake	F. O. Godman	612,770	Oct. 18	2092	496	85	424
Vehicle-brake	W. C. Griesbach	614,546	Nov. 22	2349	538	85	1119
Vehicle-brake	C. B. Jones	608,865	Aug. 9	1277	298	84	921
Vehicle-brake	F. H. Mayer	605,735	June 14	1230	284	83	1607
Vehicle-brake	M. C. Morrison	608,891	Aug. 9	1313	306	84	928
Vehicle-brake	J. Ramage	610,974	Sept. 20	1490	340	84	1764
Vehicle-brake	H. H. Rogers	596,911	Jan. 4	788	185	82	154
Vehicle-brake	H. E. Rolph	603,015	Apr. 26	2470	561	83	513
Vehicle-brake	C. Sample	604,668	May 24	2648	607	83	1180
Vehicle brake and safety-guard. Automatic	A. W. Funk	607,030	July 12	713	152	84	159



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Vehicle-brake. Automatic .....	H. L. Bailey .....	603,245	May 3	3	1, 2	83	601
Vehicle-brake. Automatic .....	A. G. Dahl and V. Lauer .....	601,127	Mar. 22	2663	608	82	1779
Vehicle-brake. Automatic .....	J. S. Elliott .....	603,946	May 10	1273	289	83	864
Vehicle-brake. Automatic .....	W. Pearl .....	610,827	Sept. 13	1237	285	84	1699
Vehicle. Chain-propelled .....	T. E. J. Schaibly .....	616,021	Dec. 13	1459	341	85	1710
Vehicle. Convertible .....	H. B. Burch .....	601,551	Mar. 29	3423	777	82	1955
Vehicle. Convertible .....	A. A. Johnsson .....	598,936	Feb. 15	1476	353	82	916
Vehicle-coupling .....	J. Crowley .....	601,635	Apr. 5	21	5	83	6
Vehicle-curtain .....	C. J. Rosbrook and S. Burnham .....	603,512	May 3	502	110	83	698
Vehicle-curtain-box .....	H. P. Wells and O. Morrill .....	601,744	Apr. 5	240	47	83	46
Vehicle-curtains. Device for raising or lowering .....	E. E. Atkinson .....	608,314	Aug. 2	257	59	84	706
Vehicle-door-operating mechanism .....	M. S. Shipley .....	613,650	Nov. 1	756	174	85	761
Vehicle draft attachment .....	M. J. Stroud .....	608,728	Aug. 9	1000	229	84	871
Vehicle draft-gear .....	H. Brunn and F. Longtin .....	599,033	Feb. 15	1655	391	82	952
Vehicle driving-gear .....	J. S. Lester .....	616,122	Dec. 20	1666	389	85	1767
Vehicle driving-gear. Motor- .....	J. and B. Millot .....	615,360	Dec. 6	258	60	85	1464
Vehicle driving mechanism .....	C. T. G. Schneidewind .....	608,008	July 26	2758	586	84	590
Vehicle. Dumping- .....	W. A. Cowley .....	609,182	Aug. 16	1891	450	84	1049
Vehicle. Dumping- .....	J. M. Goodwin .....	603,528	May 3	537	118	83	704
Vehicle. Electric .....	K. Knudsen .....	613,420	Nov. 1	380	88	85	688
Vehicle. Electrically-propelled .....	H. G. Morris and P. G. Salom .....	603,198	Apr. 26	2779	633	83	573
Vehicle. Electrically-propelled .....	P. R. Salberg .....	599,947	Mar. 1	508	115	82	1309
Vehicle. Electrically-self-propelling .....	L. Krieger .....	607,997	July 26	2719	580	84	579
Vehicle-fender .....	W. Clayton .....	598,769	Feb. 8	1197	288	82	847
Vehicle. Folding road- .....	W. Legge .....	604,331	May 17	2031	455	83	1044
Vehicle folding top .....	M. Kassmayer .....	600,724	Mar. 15	2005	456	82	1640
Vehicle. Foot-propelled .....	T. H. Brosnihan .....	615,796	Dec. 13	1057	248	85	1632
Vehicle. Foot-propelled .....	G. Streckner .....	605,028	May 31	3263	749	83	1317
Vehicle for collecting household refuse, &c .....	S. L. Kinsbruner .....	614,009	Nov. 8	1376	315	85	901
Vehicle-iron. Adjustable .....	H. C. Swan .....	604,198	May 17	1786	402	83	997
Vehicle-jack .....	J. F. Killian .....	597,167	Jan. 11	1242	292	82	258
Vehicle king-post .....	M. A. Flautt .....	614,711	Nov. 22	2664	607	85	1176
Vehicle. Motor- .....	L. S. Clarke, W. Morgan, and W. S. Gordon. }	602,283	Apr. 12	1206	265	83	242
Vehicle. Motor- .....	J. W. Eisenhuth .....	612,026	Oct. 11	774	191	85	162
Vehicle. Motor- .....	W. W. Grant .....	602,621	Apr. 19	1778	406	83	366
Vehicle. Motor- .....	E. Haynes and E. Apperson .....	607,116	July 12	902	196	84	193
Vehicle. Motor- .....	G. H. Hill .....	601,205	Mar. 22	2802	640	82	1805
Vehicle. Motor- .....	B. Holmes .....	601,440	Mar. 29	3242	731	82	1916
Vehicle. Motor- .....	C. M. Johnson .....	609,811	Aug. 30	3042	711	84	1305
Vehicle. Motor- .....	G. W. Lewis .....	604,237	May 17	1849	414	83	1008
Vehicle. Motor- .....	T. J. Lindsay .....	612,360	Oct. 11	1360	329	85	272
Vehicle. Motor- .....	C. E. Lufbery .....	601,731	Apr. 5	209	41	83	41
Vehicle. Motor- .....	W. H. Pickering .....	603,047	Apr. 26	2517	571	83	522
Vehicle. Motor- .....	J. C. Reuter .....	612,506	Oct. 18	1605	383	85	333
Vehicle. Motor- .....	H. Smith .....	616,267	Dec. 20	1958	456	85	1826
Vehicle. Motor- .....	E. A. Sperry .....	616,153	Dec. 20	1732	401	85	1779
Vehicle. Motor- .....	A. Winton .....	610,466	Sept. 6	609	136	84	1555
Vehicle. Motor- .....	W. O. Worth .....	607,318	July 12	1279	273	84	264
Vehicle-motor .....	G. W. Lewis .....	604,332	May 17	2033	455	83	1044
Vehicle-motor .....	G. W. Lewis .....	609,443	Aug. 23	2371	559	84	1164
Vehicle. Motor-driven .....	C. T. Hildebrandt and F. R. McMullin. }	613,272	Nov. 1	86	20	85	632
Vehicle-propeller .....	J. F. Venner .....	614,907	Nov. 29	3022	691	85	1261
Vehicle-propelling mechanism .....	J. A. Little .....	605,731	June 14	1220	282	83	1605
Vehicle-propelling mechanism .....	H. Symes .....	603,518	May 3	512	111	83	699
Vehicle reach-coupling .....	F. Sisson .....	609,056	Aug. 16	1661	395	84	1009
Vehicle-rims. Device for contracting and expanding }	W. H. Clawson .....	604,654	May 24	2621	599	83	1175
Vehicle. Road- .....	G. B. Schoepf .....	616,497	Dec. 27	2405	557	85	1935
Vehicle-runner .....	M. Palmtag .....	613,297	Nov. 1	131	31	85	642
Vehicle-runner .....	M. Palmtag .....	613,298	Nov. 1	133	31	85	643
Vehicle-runner .....	T. Thunborg .....	608,433	Aug. 2	478	107	84	750
Vehicle running-gear .....	J. J. Casey .....	602,655	Apr. 19	1838	419	83	377
Vehicle running-gear .....	C. G. and A. C. Habegger .....	613,141	Oct. 25	2725	643	85	569
Vehicle running-gear .....	J. F. Hennessy .....	609,276	Aug. 16	2087	495	84	1090
Vehicle running-gear .....	A. A. Holt .....	606,414	June 28	2575	596	83	1898
Vehicle running gear .....	A. A. Holt .....	608,859	Aug. 9	1269	296	84	920
Vehicle running-gear .....	F. C. Lang .....	602,511	Apr. 19	1591	363	83	333
Vehicle running-gear .....	H. A. Moyer .....	615,874	Dec. 13	1174	274	85	1655
Vehicle running-gear .....	H. A. Moyer .....	616,004	Dec. 13	1434	335	85	1705
Vehicle running-gear .....	H. A. Muckler .....	615,733	Dec. 13	943	219	85	1610
Vehicle running-gear .....	R. H. Wallace .....	604,811	May 31	2900	663	83	1247
Vehicle running-gear. Motor- .....	E. B. W. Reichel .....	613,018	Oct. 25	2529	601	85	530



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Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
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Vehicle running-gear. Pole-support for	A. V. Spang	613,088	Oct. 25	2649	626	85	553
Vehicle-seat	J. S. Austin	614,281	Nov. 15	1872	432	85	1015
Vehicle-seat	H. M. Clark	598,695	Feb. 8	1083	261	82	825
Vehicle-seat	C. B. Moore	596,525	Jan. 4	112	25	82	23
Vehicle-seat attachment	J. W. Uncapher	601,186	Mar. 22	2767	634	82	1798
Vehicle-seat back-rest	E. C. Alford	604,284	May 17	1940	435	83	1027
Vehicle. Self-propelling	L. Bollée	601,545	Mar. 29	3414	775	82	1953
Vehicle. Shifting-seat	C. H. Stratton	600,625	Mar. 15	1827	419	82	1606
Vehicle sleigh attachment	A. C. Nygaard	610,824	Sept. 13	1233	284	84	1697
Vehicle-spindle	R. D. Critchfield	609,501	Aug. 23	2495	584	84	1187
Vehicle-spring	E. L. Brillhart	597,161	Jan. 11	1231	290	82	256
Vehicle-spring	P. Lwoff	609,446	Aug. 23	2382	561	84	1167
Vehicle-spring	J. C. Shepherd	598,445	Feb. 1	645	159	82	725
Vehicle-spring	O. A. Timberlake	602,591	Apr. 19	1723	392	83	356
Vehicle-spring	M. Woodhull	598,465	Feb. 1	677	166	82	731
Vehicle. Spring-	H. A. Moyer	615,873	Dec. 13	1173	274	85	1655
Vehicle. Spring-	F. Selle	596,631	Jan. 4	309	67	82	61
Vehicle-spring. Adjustable	J. S. Hulings	603,955	May 10	1287	294	83	867
Vehicle spring-gear	A. B. Histand	613,370	Nov. 1	276	63	85	670
Vehicle spring-gear	H. L. Martin	600,495	Mar. 8	1611	368	82	1546
Vehicle spring-gear	J. M. O'Brien	616,135	Dec. 20	1702	396	85	1773
Vehicle spring-seat	A. H. Holland	606,413	June 28	2574	596	83	1898
Vehicle spring-wheel	A. B. Waggoner	607,201	July 12	1057	229	84	221
Vehicle-standard	J. F. Cook	616,771	Dec. 27	2901	674	85	2030
Vehicle steering device	C. N. Fisher	606,409	June 28	2565	593 594	83	1896
Vehicle steering mechanism. Motor-	A. W. Brightmore	609,955	Aug. 30	3299	768 769	84	1357
Vehicle steering-wheel. Motor-	A. W. Southey	613,399	Nov. 1	343	79	85	681
Vehicle-step	H. C. Swan	613,534	Nov. 1	574	130	85	725
Vehicle-stopper	R. H. and I. B. Wolfe	610,697	Sept. 13	998	231	84	1651
Vehicle storm-apron	J. Otto	612,434	Oct. 16	1486	359	85	310
Vehicle toe-rail	A. F. Brandenburg	616,566	Dec. 27	2518	583	85	1956
Vehicle-top	H. C. Swan	597,568	Jan. 18	1918	446	82	408
Vehicle-truss-frame. Electric	J. L. Merritt and D. A. Lenox	612,136	Oct. 11	966	233	85	199
Vehicle turn-plate	K. Knudsen	611,258	Sept. 27	2026	467 468	84	1885
Vehicle. Two-wheeled	W. H. Emond	601,559	Mar. 29	3434	780	82	1956
Vehicle-wheel	L. M. Hicks and J. Titus	613,146	Oct. 25	2731	645	85	570
Vehicle-wheel	W. H. Barker	612,795	Oct. 18	2142	509	85	435
Vehicle-wheel	J. E. M. Becker	605,070	June 7	8	2	83	1354
Vehicle-wheel	R. T. and C. Bellemey	597,938	Jan. 25	2547	595	82	543
Vehicle-wheel	J. Blais	610,468	Sept. 6	614	137 138	84	1556
Vehicle-wheel	J. K. Bowman	596,735	Jan. 4	498	114	82	97
Vehicle-wheel	T. R. Bridge	612,376	Oct. 11	1388	336	85	278
Vehicle-wheel	B. Burr	597,707	Jan. 25	2159	505	82	470
Vehicle-wheel	S. Carbury	615,426	Dec. 6	394	94	85	1489
Vehicle-wheel	L. R. Chambliss	604,726	May 31	2769	633	83	1221
Vehicle-wheel	H. R. Collins	612,018	Oct. 11	761	188 189	85	159
Vehicle-wheel	H. R. Collins	612,019	Oct. 11	763	189	85	160
Vehicle-wheel	W. G. and E. A. Crossley	604,372	May 24	2118	476	83	1081
Vehicle-wheel	C. M. Currey	598,771	Feb. 8	1200	290	82	847
Vehicle-wheel	U. S. Drayer	598,913	Feb. 15	1435	345	82	909
Vehicle-wheel	J. A. Foster	606,531	June 28	2791	644	83	1942
Vehicle-wheel	J. L. Fowler	609,424	Aug. 23	2345	552	84	1159
Vehicle-wheel	J. E. Hatch	601,141	Mar. 22	2686	615 616	82	1783
Vehicle-wheel	E. C. Hayde	605,875	June 21	1531	353	83	1681
Vehicle-wheel	G. Hayes	607,039	July 12	727	156	84	162
Vehicle-wheel	J. A. Heany	612,101	Oct. 11	911	221	85	189
Vehicle-wheel	J. A. Heany	612,102	Oct. 11	912	222	85	189
Vehicle-wheel	J. A. Heany	612,103	Oct. 11	912	222	85	189
Vehicle-wheel	J. A. Heany	616,463	Dec. 27	2324	541	85	1920
Vehicle-wheel	J. N. Johnson	607,378	July 12	1396	298	84	287
Vehicle-wheel	H. F. Julian	604,154	May 17	1699	383	83	980
Vehicle-wheel	H. F. Julian	604,155	May 17	1701	383	83	981
Vehicle-wheel	J. A. Labatt and G. H. Lewis	607,057	July 12	788	171	84	172
Vehicle-wheel	J. Lloyd	608,691	Aug. 9	940	216	84	861
Vehicle-wheel	C. N. McCoy	608,210	Aug. 2	75	20	84	670
Vehicle-wheel	J. J. McCully	613,463	Nov. 1	447	102	85	701
Vehicle-wheel	R. G. McDowell	605,003	May 31	3219	741	83	1308
Vehicle-wheel	A. Meyer	607,518	July 19	1823	379	84	392
Vehicle-wheel	H. G. Morris	614,665	Nov. 22	2582	587	85	1160
Vehicle-wheel	H. P. Osborn	601,324	Mar. 29	3050	687	82	1879
Vehicle-wheel	J. M. Rankin	613,307	Nov. 1	147	34	85	646
Vehicle-wheel	M. M. Renn	608,912	Aug. 9	1347	314	84	936
Vehicle-wheel	G. L. Scott	607,961	July 26	2655	566	84	567
Vehicle-wheel	T. M. Shrout	610,096	Aug. 30	3536	820	84	1404
Vehicle-wheel	W. Tilsner	612,368	Oct. 11	1375	333	85	276
Vehicle-wheel	J. C. H. Vaught	612,468	Oct. 18	1552	372	85	322
Vehicle-wheel	J. Watson	616,376	Dec. 20	2162	503	85	1867
Vehicle-wheel	C. G. Whitaker	603,865	May 10	1139	256	83	838
Vehicle wheel and axle	R. Schroeder	602,475	Apr. 19	1535	349	83	322
Vehicle-wheels. Coin-operated lock for	E. Schmidt and A. F. Schneider	605,749	June 14	1249	289	83	1611
Vehicle-wheels off car-tracks. Device for assisting	G. B. Fritzius and W. N. Marks	616,702	Dec. 27	2790	647	85	2007
Vehicle. Wheeled	I. Z. Merriam	609,894	Aug. 30	3185	746	84	1334
Vehicle. Wheeled	H. B. Osgood	596,683	Jan. 4	400	90	82	79
Vehicle-wrench	G. and J. M. Davis	603,838	May 10	1086	242	83	827
Vehicles. Contact device for electrically-propelled	H. P. Davis	606,819	July 5	343	73	84	68
Vehicles. Controller for electrically-propelled	R. T. D. Brougham and W. C. Bersey.	600,509	Mar. 15	1633	373 374	82	1571
Vehicles. Convertible running-gear for	A. V. Spang	605,759	June 14	1267	293	83	1614
Vehicles. Detachable runner for wheeled	R. F. Downey	615,687	Dec. 13	866	199	85	1595
Vehicles. Means for connecting draft-animals to	T. H. Brigg	596,569	Jan. 4	190	43	82	38



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Vehicles. Means for preventing vibration in	C. R. Binney	608,505	Aug. 2	594	133	84	773
Vehicles. Means for suspending motors on	S. H. Short	603,927	May 10	1241	282 283	83	858
Vehicles. Steering-wheel for motor	E. J. Clubbe and A. W. Southey	612,017	Oct. 11	760	188	85	159
Vehicles. Variable speed and power mechanism for motor	J. Clough and J. Bush	615,430	Dec. 6	400	95, 96	85	1491
Veil-holder	E. Detwiler	602,433	Apr. 19	1457	331	83	307
Velocipede	C. B. Adriance	603,418	May 3	302	68	83	658
Velocipede	S. Allen	612,389	Oct. 18	1408	340	85	295
Velocipede	G. W. Bell	598,280	Feb. 1	376	87	82	672
Velocipede	H. F. Cuntz	613,621	Nov. 1	714	166	85	752
Velocipede	W. De Morgan	616,226	Dec. 20	1880	434	85	1811
Velocipede	W. J. Grotenhuis and H. T. Sidway	606,541	June 28	2806	647	83	1945
Velocipede	H. G. Harris and W. Blackmore	601,254	Mar. 29	2902	661	82	1851
Velocipede	W. James	616,619	Dec. 27	2608	605	85	1972
Velocipede	F. A. Kershaw	613,282	Nov. 1	106	25	85	636
Velocipede	Z. H. Kingdon	614,174	Nov. 15	1657	381	85	976
Velocipede	H. G. Meumann	598,228	Feb. 1	278	62, 63	82	655
Velocipede	R. Miehle	609,828	Aug. 30	3078	718	84	1313
Velocipede	R. Miehle	616,481	Dec. 27	2365	549	85	1928
Velocipede	G. A. Nisbet	611,138	Sept. 20	1798	414	84	1823
Velocipede	R. M. Norton	614,232	Nov. 15	1789	413	85	1000
Velocipede	E. R. Royston	606,302	June 28	2359	545 546	83	1858
Velocipede	F. and M. Schneiderlöchner	606,943	July 5	538	118	84	107
Velocipede	G. J. Scott	598,819	Feb. 8	1269	308	82	861
Velocipede	A. Simpler	601,107	Mar. 22	2632	601	82	1773
Velocipede	W. D. Smith	597,073	Jan. 11	1083	256	82	227
Velocipede	F. X. Wagner	610,111	Aug. 30	3554	824	84	1408
Velocipede	J. I. Warman	605,155	June 7	178	44, 45	83	1385
Velocipede	N. F. Willatt	616,383	Dec. 20	2174	506 507	85	1869
Velocipede	S. Zügel	615,946	Dec. 13	1326	309 310	85	1682
Velocipede and driving mechanism. Railway	G. E. Heaton	601,439	Mar. 29	3240	730 731	82	1916
Velocipede chain adjustment	L. Melanowski	614,568	Nov. 22	2393	546	85	1127
Velocipede chain-wheel	F. G. Adams	607,322	July 12	1288	275	84	265
Velocipede chainless gear	A. J. Madden	607,757	July 19	2239	473	84	470
Velocipede-crank	W. R. Morris	597,911	Jan. 25	2505	586	82	536
Velocipede crank-shaft	W. S. Brown	596,846	Jan. 4	681	157	82	132
Velocipede driving-gear	G. Barker	601,824	Apr. 5	382	80	83	72
Velocipede driving-gear	T. Hann, W. Bromley, J. Price, A. H. Smith, and D. E. Radclyffe.	616,674	Dec. 27	2737	635	85	1997
Velocipede driving-gear	A. Johnsen	610,236	Sept. 6	179	40	84	1476
Velocipede driving-gear	C. W. Vosper	613,097	Oct. 25	2662	629	85	556
Velocipede driving mechanism	W. W. Tucker and C. L. Goodrich	597,209	Jan. 11	1309	305	82	270
Velocipede driving mechanism	K. S. Murray	608,341	Aug. 2	319	70	84	719
Velocipede-frame	H. G. Burford	612,231	Oct. 11	1125	270	85	230
Velocipede-frame	T. Norton	613,935	Nov. 8	1253	285	85	876
Velocipede-frames. Manufacture of	W. Hillman	608,678	Aug. 9	921	211 212	84	857
Velocipede gear-case	J. T. Tilby and J. H. Blackmore	611,824	Oct. 4	408	98	85	81
Velocipede-gearing	J. W. Sunderland	605,933	June 21	1644	377	83	1703
Velocipede-guard	W. Liggins	615,865	Dec. 13	1164	271	85	1653
Velocipede-handle	P. Raczek	604,216	May 17	1815	408	83	1002
Velocipede holder or stand	F. H. W. Breininger	613,963	Nov. 8	1298	295	85	885
Velocipede. Ice-	E. Beaudin	598,760	Feb. 8	1183	284	82	844
Velocipede. Ice-	H. Grimshaw	616,099	Dec. 20	1621	379 380	85	1760
Velocipede. Ice-	C. Lockwood	597,468	Jan. 18	1760	407 408	82	376
Velocipede. Ice-	J. C. Pease	608,622	Aug. 9	809	187	84	834
Velocipede. Ice-	W. L. Williams	606,479	June 28	2686	619	83	1922
Velocipede, &c. Manu-pedal and hand-steering	R. Edgar, Jr.	608,190	Aug. 2	41	9, 10	84	663
Velocipede. Marine	J. F. Grady and M. Hart	602,072	Apr. 12	838	181	83	170
Velocipede. Marine	H. C. Johnson	599,237	Feb. 15	1980	470 471	82	1011
Velocipede or polycycle	C. Yingst	600,471	Mar. 8	1547	356	82	1533
Velocipede-pedal	E. G. Latta	599,909	Mar. 1	445	99	82	1298
Velocipede-pedal	A. Seaver and G. A. Chamberlin	614,900	Nov. 29	3006	689	85	1259
Velocipede pedal-crank	J. Flindall	610,175	Sept. 6	40	10	84	1449
Velocipede. Railway-	J. Donovan	611,808	Oct. 4	371	89, 90	85	75
Velocipede. Railway-	C. N. Teetor	598,450	Feb. 1	652	161	82	727
Velocipede-saddle	H. Blossom	607,651	July 19	2072	433	84	438
Velocipede-saddle	R. Crossman and J. Powell	598,858	Feb. 8	1335	323	82	873
Velocipede-saddle	M. M. Deem	608,443	Aug. 2	491	111	84	753
Velocipede-saddle	P. Pansard	609,459	Aug. 23	2412	565 566	84	1172
Velocipede-saddle	J. W. Richardson	602,523	Apr. 19	1610	368	83	336
Velocipede-saddle	G. S. Webb	597,342	Jan. 11	1527	356	82	313
Velocipede-saddle support	L. Bonet	609,076	Aug. 16	1693	403	84	1015
Velocipede saddle-support	A. J. Parker	602,018	Apr. 5	743	160	83	141
Velocipede suspension-wheel	G. J. Stevens and J. Hix	614,670	Nov. 22	2590	588	85	1161
Velocipede toe-clip	W. Herrick	597,830	Jan. 25	2370	553 554	82	510
Velocipede toe-clip	T. W. Morris	597,780	Jan. 25	2286	534	82	494
Velocipedes, autocars, &c. Driving-gear for	C. Larue	607,443	July 19	1514	323	84	326
Velocipedes, &c. Driving-gear for	W. J. and E. Freeman	599,445	Feb. 22	2405	565	82	1117
Velocipedes. Means for adjusting sprocket-chains for	W. S. Brown	613,237	Nov. 1	21	5	85	621
Velocipedes. Means for attaching air-pumps or inflators to frames of	J. W. Wilkinson and R. Chaplin	612,449	Oct. 18	1513	364	85	315
Velocipedes, &c. Propelling and guiding mechanism for	T. C. Dennison	614,320	Nov. 15	1949	450	85	1030
Vending aerated liquids. Coin-controlled apparatus for	H. Rauch	599,355	Feb. 22	2214	525	82	1077



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Vending apparatus. Coin-controlled	L. Rouillion	616,495	Dec. 27	2399	556 557	85	1934
Vending apparatus. Coin-controlled liquid-	C. E. Westlake	614,257	Nov. 15	1835	424	85	1008
Vending apparatus. Coin-operated	J. R. Bowling and G. W. Gilliland	603,810	May 10	1027	229	83	817
Vending device. Automatic	D. Brown	597,486	Jan. 18	1792	415	82	382
Vending device. Coin-controlled	S. Green	616,416	Dec. 20	2229	520 521	85	1880
Vending-machine	M. Benedict	602,185	Apr. 12	1046	228 229	83	210
Vending-machine	P. H. Conner and F. M. Podhaski	611,354	Sept. 27	2216	512	84	1920
Vending-machine	W. Dyer	610,673	Sept. 13	959	222	84	1642
Vending-machine	G. E. Emerson and L. G. Merritt	596,862	Jan. 4	711	164 165 166	82	139
Vending-machine	F. P. Keesee	610,542	Sept. 13	747	170	84	1598
Vending-machine	J. H. Schmidt	600,697	Mar. 15	1959	447	82	1631
Vending-machine	H. G. Sweeney	611,226	Sept. 20	1964	453	84	1853
Vending-machine	J. H. Volkman	598,545	Feb. 8	816	195	82	775
Vending-machine. Automatic	G. A. Cline	606,802	July 5	312	65, 66	84	62
Vending-machine. Automatic	E. Gleason	598,288	Feb. 1	393	92, 93	82	676
Vending-machine. Automatic	A. and O. Jaeger	614,553	Nov. 22	2359	540 541	85	1121
Vending-machine. Automatic	N. Mereness	615,359	Dec. 6	255	59, 60	85	1463
Vending-machine. Coin-controlled	P. E. Berger	612,656	Oct. 18	1894	448	85	387
Vending-machine. Coin-controlled	C. E. Snapp	606,249	June 28	2272	525	83	1840
Vending machine. Coin-controlled liquid-	H. G. and A. H. Rudolph	613,530	Nov. 1	565	128 129	85	723
Vending-machine. Coin-operated	L. M. Maxham	602,543	Apr. 19	1644	374	83	341
Vending-machine. Coin-operated	M. B. Mills	614,618	Nov. 22	2490	568 569	85	1143
Vending machine. Liquid-	H. G. Sweeney	611,225	Sept. 20	1963	452	84	1853
Vending machine. Newspaper-	G. A. Welch	601,189	Mar. 22	2771	635 636	82	1799
Vending-machines. Bogus-coin detector for coin-operated	M. B. Mills	613,844	Nov. 8	1103	251 252	85	847
Veneer-cutting machine	G. E. M. Lewis	609,513	Aug. 23	2510	587	84	1190
Veneer-machine	D. W. Williamson	615,773	Dec. 13	1020	238 239 240	85	1625
Veneer-press	A. K. Hatteberg	616,322	Dec. 20	2056	478 479	85	1847
Vent for preserving fermented liquors	O. J. Nugent	599,454	Feb. 22	2417	568	82	1119
Vent-plug	W. P. Keenan	604,899	May 24	2157	484	83	1088
Venting device for closed vessels	J. D. Mather	611,040	Sept. 20	1608	368	84	1786
Ventilating and air-moistening apparatus	J. A. Hart	613,510	Nov. 1	537	121 122 567	85	717
Ventilating apparatus	J. A. Hart	611,480	Sept. 27	2466	568 569	84	1966
Ventilating apparatus. Building-	R. Steinecke	613,431	Nov. 1	403	92	85	693
Ventilating halls or churches	S. H. Woodbridge	597,826	Jan. 25	2366	552	82	509
Ventilating system	J. McCreery	605,806	June 14	1376	315 316	83	1634
Ventilating system. House-	T. Hyde	606,417	June 28	2588	597	83	1902
Ventilating wheel or fan	W. H. A. Davidson	598,216	Feb. 1	259	57	82	651
Ventilator:							
See Car-ventilator.	Window-ventilator.						
Ventilator	G. F. Cramer	614,368	Nov. 15	2032	469	85	1047
Ventilator	J. M. Hauff	598,371	Feb. 1	518	125	82	700
Ventilator	A. B. Praetsch	614,497	Nov. 22	2283	523	85	1107
Ventilator	J. B. Slade	597,171	Jan. 11	1247	293	82	259
Ventilator and ventilator-brace	R. M. Pancoast	605,508	June 14	821	191	83	1531
Verandas, porches, &c. Support for	W. G. Runyon	608,797	Aug. 9	1123	260	84	893
Vermin-trap	F. W. Roe	609,168	Aug. 16	1871	445	84	1046
Vessel and sail and rigging therefor	C. Twining	606,104	June 21	1977	454 455	83	1764
Vessel bow-guard	C. G. Theleen	607,298	July 12	1245	265	84	257
Vessel-brake	J. S. C. Nichols	607,267	July 12	1191	255	84	246
Vessel-cleaner	E. Lundgren	609,285	Aug. 16	2102	497 498	84	1093
Vessel-closure	W. P. Beam	604,359	May 24	2094	469	83	1076
Vessel-closure	F. A. Walsh	605,528	June 14	852	199	83	1537
Vessel. Collapsible	P. Lochmann	598,676	Feb. 8	1047	252	82	818
Vessel. Electrically-propelled	D. O'Flaherty	599,862	Mar. 1	348	79	82	1279
Vessel-handle	A. R. Pritchard	605,828	June 14	1418	323	83	1641
Vessel-handle	R. B. Williamson	597,754	Jan. 25	2235	519	82	485
Vessel. Lightering	J. E. Walsh	602,888	Apr. 26	2244	510	83	471
Vessel. Marine	G. Fraser	616,780	Dec. 27	2918	678	85	2034
Vessel or kettle tilter	R. Wittmann	615,121	Nov. 29	3440	790	85	1342
Vessel or package. Containing	A. and M. Gerstendorfer	611,008	Sept. 20	1556	358	84	1776
Vessel. Sailing	R. Taylor	597,191	Jan. 11	1278	299	82	265
Vessels. Apparatus for floating stranded	S. Lake	611,636	Oct. 4	76	19	85	17
Vessels. Apparatus for manufacturing closed-ended	L. Stampacchia	601,738	Apr. 5	224	44	83	43
Vessels. Cargo-trimming carriage for	J. R. Oldham	600,594	Mar. 15	1783	408	82	1598
Vessels. Device for preventing refilling	B. H. Raymond	604,700	Ma / 24	2713	620	83	1192
Vessels. Energy-storing apparatus for	H. Brinkhaus	596,957	Jan. 4	876	205 206	82	170
Vessels from sand-bars. Means for releasing	H. F. Deferding	612,710	Oct. 18	1987	470 471	85	404
Vessels. Means for raising sunken	L. Matignon	605,231	June 7	324	75	83	1412
Vessels or vehicles. Method of and apparatus for controlling mechanism of moving	N. Tesla	613,809	Nov. 8	1052	239 240	85	837
Vessels. Turret-joint for naval	W. D. Stivers	602,374	Apr. 12	1353	302	83	273
Vest	L. Wetzler	614,068	Nov. 8	1468	337	85	920
Vest and bosom. Combination	H. L. Rubin and H. Simon	616,360	Dec. 20	2133	496	85	1862



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Veterinary obstetrical support .....	J. H. Boston .....	600,608	Mar. 15	1802	413	82	1602
Veterinary operating-table .....	N. W. Kyle .....	612,948	Oct. 25	2419	576	85	507
Veterinary tool .....	J. F. McAnulty and P. Van den Berghé .....	609,587	Aug. 23	2641	618	84	1214
Veterinary tooth-cutter .....	W. H. Beede and A. G. C. Cannon .....	599,586	Feb. 22	2660	623	82	1165
Veterinary tooth-cutter .....	J. H. Frye .....	613,506	Nov. 1	532	120	85	717
Vials, &c. Machine for making .....	J. B. Conde .....	614,840	Nov. 29	2881	662	85	1234
Vials, &c. Machine for necking and lipping .....	J. B. Conde .....	614,935	Nov. 29	3080	707	85	1274
Vials, syringes, &c. Machine for making .....	J. B. Conde .....	614,841	Nov. 29	2885	664	85	1235
Vine-supporter .....	T. I. Elliott .....	610,803	Sept. 13	1198	275	84	1691
Vine-trimmer .....	G. N. Jeune .....	610,449	Sept. 6	575	127	84	1549
Violets. Essence of .....	J. Ziegler .....	601,193	Mar. 22	2782	---	82	1801
Violin .....	J. Wachsmann .....	599,814	Mar. 1	263	59	82	1262
Violin .....	M. W. White .....	605,942	June 21	1667	382	83	1707
Violin-bow .....	S. E. Bowser .....	613,897	Nov. 8	1198	274	85	865
Violin chin-rest .....	G. E. Hoffmann .....	613,513	Nov. 1	542	123	85	718
Violin music-holder .....	S. V. Lundquist .....	603,568	May 3	594	132	83	716
Vise .....	H. B. Abernathy .....	611,091	Sept. 20	1711	393	84	1806
Vise .....	W. H. Ames .....	613,351	Nov. 1	241	54	85	664
Vise .....	O. Colborne .....	605,855	June 21	1500	344	83	1675
Vise .....	G. F. Condit .....	601,313	Mar. 29	3034	683	82	1877
Vise .....	A. Howard .....	616,331	Dec. 20	2073	483	85	1849
Vise .....	W. Jennings .....	614,724	Nov. 22	2690	613	85	1181
Vise .....	M. G. Lewis .....	597,681	Jan. 18	2107	493	82	443
Vise .....	J. B. Moore and J. M. Young .....	608,697	Aug. 9	950	218	84	863
Vise. Bench .....	H. M. Knudsen .....	599,613	Feb. 22	2716	635	82	1176
Vise. Bench .....	M. G. Lewis .....	596,661	Jan. 4	359	79, 80	82	71
Vise. Bench .....	M. G. Lewis .....	605,106	June 7	67	19	83	1365
Vise. Bench .....	M. G. Lewis .....	605,107	June 7	68	19	83	1365
Vise. Bench .....	W. C. Toles .....	613,535	Nov. 1	575	130	85	725
Vise bench. Adjustable portable pipe .....	G. F. Tong .....	600,100	Mar. 1	868	200	82	1384
Vise. Hand- .....	C. Blomstrom .....	598,898	Feb. 15	1404	338	82	903
Vise. Parallel .....	B. Fröhlich .....	614,298	Nov. 15	1899	438	85	1020
Vise. Pipe .....	R. B. Hough .....	600,830	Mar. 15	2173	495	82	1671
Vise. Pipe .....	E. Wright .....	598,130	Feb. 1	97	23	82	621
Vise. Sliding .....	A. Sonander .....	597,334	Jan. 11	1510	353	82	311
Vise-support. Adjustable .....	C. C. Wright and W. Hunt .....	599,087	Feb. 15	1728	410	82	966
Voltaic battery .....	H. E. de Rufz de Lavison .....	596,791	Jan. 4	593	137	82	114
Voltaic battery. Secondary .....	L. Epstein .....	606,526	June 28	2757	637	83	1937
Voltmeter .....	J. F. Stevens .....	607,715	July 19	2174	458	84	457
Voltmeter. Alternating-current .....	H. P. Davis and F. Conrad .....	611,592	Sept. 27	2681	619	84	2007
Voting apparatus .....	J. B. Corey .....	607,503	July 19	1797	374	84	388
Voting-machine .....	H. C. H. Cooper .....	614,419	Nov. 15	2133	491	85	1066
Voting-machine .....	S. Ducas .....	609,576	Aug. 23	2616	612	84	1210
Voting-machine .....	A. H. Hart .....	605,423	June 7	700	156	83	1487
Voting-machine .....	R. A. and E. R. Hart .....	598,247	Feb. 1	307	70, 71	82	660
Voting-machine .....	G. W. MacKenzie .....	613,164	Oct. 25	2758	649	85	575
Voting-machine .....	P. A. Macdonald .....	609,825	Aug. 30	3074	717	84	1312
Voting-machine .....	J. A. Markoe .....	596,894	Jan. 4	753	178	82	147
Voting-machine .....	E. J. Mead .....	607,445	July 19	1519	323	84	326
Voting-machine .....	N. B. Ross .....	612,573	Oct. 18	1731	410	85	356
Voting-machine .....	A. Snoeck .....	608,922	Aug. 9	1373	325	84	941
Voting-machine .....	A. Snoeck .....	608,923	Aug. 9	1381	326	84	942
Voting-machine .....	A. Snoeck .....	614,031	Nov. 8	1403	327	85	906
Voting-machine .....	P. H. Stedman .....	613,049	Oct. 25	2574	611	85	539
Voting-machine .....	F. A. Suck .....	600,388	Mar. 8	1395	319	82	1505
Voting-machine .....	A. Turner .....	613,338	Nov. 1	205	46, 47	85	656
Voting-machine .....	A. P. Weitz .....	613,000	Oct. 25	2501	595	85	524
Voting-machine .....	L. R. Winslow .....	611,403	Sept. 27	2320	596	84	1939
Voting-machine. Electric .....	F. S. Wood .....	616,174	Dec. 20	1783	536	85	1791
Voting-machine. Registering .....	G. C. Woodman .....	600,820	Mar. 15	2153	492	82	1669
Vulcanizer .....	E. D. Gilbert .....	614,246	Nov. 15	1813	418	85	1004
Vulcanizer .....	B. Rein .....	604,788	May 31	2866	419	85	1540
Vulcanizer-closure .....	A. Geiger .....	600,067	Mar. 1	807	655	83	1372
Vulcanizing apparatus .....	L. H. Berg .....	607,823	July 26	2395	185	82	1372
Wad-cutter .....	W. L. Morris .....	612,955	Oct. 25	2431	508	84	518
Wadding. Machine for surface-sizing .....	G. V. B. Clark .....	598,608	Feb. 8	924	579	85	510
Waffle-iron .....	E. C. Perry .....	602,101	Apr. 12	887	222	82	797
Wagon .....	R. Hiatt .....	600,200	Mar. 8	1091	192	83	179
Wagon .....	C. Hotz .....	603,818	May 10	1042	246	82	1447
Wagon .....	H. Peters .....	616,233	Dec. 20	1935	232	83	820
Wagon .....	F. K. Ricks .....	610,921	Sept. 20	1395	448	85	1822
Wagon .....	A. N. Russell .....	614,986	Nov. 29	3192	319	84	1746
Wagon .....	W. O. Shadbolt .....	611,082	Sept. 20	1689	734	85	1293
Wagon .....	T. Wright .....	612,691	Oct. 18	1949	388	84	1801
Wagon attachment .....	S. Carlsen .....	613,966	Nov. 8	1302	461	85	398
Wagon-bed .....	J. Gunn .....	613,509	Nov. 1	536	296	85	886



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wagon-bed raiser	S. H. Drysdale	609,796	Aug. 30	3015	706	84	1300
Wagon-body	J. E. De Lamar	616,225	Dec. 20	1879	434	85	1811
Wagon-body	J. H. Joyce	613,448	Nov. 1	426	97, 98	85	698
Wagon-body	L. J. Lishness	613,581	Nov. 1	648	150	85	739
Wagon-body. Folding	G. M. Core	604,730	May 31	2775	634, 635	83	1222
Wagon-body lining	F. H. Murray	601,976	Apr. 5	684	145	83	129
Wagon-box	T. Forstner	616,778	Dec. 27	2914	678	85	2033
Wagon-box clamp	M. A. Leiter	615,563	Dec. 6	648	148	85	1538
Wagon-box step. Folding	M. C. Brown	597,706	Jan. 25	2157	505	82	469
Wagon-box. Transformable	T. J. Fielder	616,528	Dec. 27	2460	569	85	1945
Wagon-brake	R. A. Adams	597,173	Jan. 11	1252	293	82	260
Wagon-brake	J. R. Barron	615,128	Nov. 29	3453	792	85	1345
Wagon-brake	W. L. Boardman	606,403	June 28	2552	591	83	1894
Wagon-brake	A. B. Chitwood	607,341	July 12	1325	283	84	274
Wagon-brake	D. A. Foster	604,380	May 24	2131	478	83	1083
Wagon-brake	W. Fraser	601,872	Apr. 5	488	100	83	91
Wagon-brake	J. A. Gilkey	602,319	Apr. 12	1267	280	83	255
Wagon-brake	J. R. Kinkade	605,551	June 14	888	207	83	1545
Wagon-brake	R. H. Layton. (Reissue)	11,705	Dec. 13	1547	361	85	1727
Wagon-brake	M. L. Sanderling	614,628	Nov. 22	2517	573	85	1148
Wagon-brake	S. L. Sisley	604,704	May 24	2721	622	83	1193
Wagon-brake	I. L. Wagner	602,786	Apr. 19	2062	468	83	421
Wagon-brake. Automatic	H. B. Benton	614,362	Nov. 15	2024	467	85	1045
Wagon-brake. Automatic	O. A. Little	616,058	Dec. 13	1528	357	85	1724
Wagon-brake. Automatic	N. Lowe, Sr.	616,713	Dec. 27	2807	650	85	2011
Wagon-brake. Automatic	E. R. Powell	600,928	Mar. 22	2343	532	82	1717
Wagon-brake. Automatic	J. G. Robinson	605,135	June 7	122	31	83	1374
Wagon-brake. Automatic	E. Sinner	605,235	June 7	329	76	83	1413
Wagon-brake. Eccentric	G. A. Walter	614,637	Nov. 22	2529	576	85	1151
Wagon-brake. Folding	J. Smock	608,802	Aug. 9	1138	263, 264	84	897
Wagon-brake lock	A. F. Jackson	607,749	July 19	2225	471	84	467
Wagon-brake lock-rod	J. H. Hoover	607,687	July 19	2125	445	84	448
Wagon. Chute	C. Bernhardt	605,535	June 14	861	202	83	1539
Wagon-coupling	W. D. Boettler	612,814	Oct. 25	2186	520	85	462
Wagon. Delivery-	G. C. Coover	601,125	Mar. 22	2659	607	82	1778
Wagon. Dump-	G. M. Wallace	615,598	Dec. 6	702	162	85	1550
Wagon. Dumping-	J. and G. Becker	602,151	Apr. 12	982	215	83	197
Wagon. Dumping-	C. M. Haeske	600,071	Mar. 1	811	186, 187	82	1373
Wagon. Dumping-	J. S. Hall	613,198	Oct. 25	2815	665	85	588
Wagon. Dumping-	T. B. Hopper	604,697	May 24	2708	619	83	1191
Wagon. Dumping-	G. Kautz	601,659	Apr. 5	64	12	83	13
Wagon. Dumping-	E. P. Langford	603,791	May 10	990	221	83	809
Wagon. Dumping-	W. Leonhardt	607,249	July 12	1161	248	84	239
Wagon. Dumping-	F. T. Lynch	601,476	Mar. 29	3297	746	82	1927
Wagon. Dumping-	S. T. Neuber	596,663	Jan. 4	362	80	82	71
Wagon. Dumping-	G. L. Norvell	599,727	Mar. 1	86	20	82	1233
Wagon. Dumping-	O. B. Reynolds	604,789	May 31	2868	655	83	1240
Wagon. Dumping-	J. T. Richardson	609,167	Aug. 16	1868	445	84	1045
Wagon. Dumping-	S. Sturgis	604,644	May 24	2607	595, 596	83	1172
Wagon. Dumping-	W. M. West	607,103	July 12	884	190, 191	84	189
Wagon. Dumping-	T. Wright	600,393	Mar. 8	1403	321	82	1507
Wagon. Dumping-	T. Wright	613,547	Nov. 1	589	136	85	728
Wagon. Express-	H. D. Morton	607,120	July 12	914	198	84	195
Wagon. Garbage-	P. Bauer	604,575	May 24	2496	568	83	1150
Wagon-jack	C. T. Jandro	602,259	Apr. 12	1165	256	83	235
Wagon-jack	J. A. Staples	608,011	July 26	2762	587	84	590
Wagon-jack	G. W. Stoddard	614,777	Nov. 22	2772	633	85	1199
Wagon-jack	W. R. Wilcox	599,432	Feb. 22	2383	560	82	1113
Wagon. Lumber-	W. J. Bond	608,644	Aug. 9	859	198	84	844
Wagon or buggy top support	J. H. Sprague	606,773	July 5	266	56	84	54
Wagon or carriage step	E. George	598,506	Feb. 8	750	181	82	762
Wagon. Roll-off lumber-	E. O. McGlaulin	600,646	Mar. 15	1857	425	82	1612
Wagon running-gear	D. H. Turnbull	610,979	Sept. 20	1498	341	84	1765
Wagon-seat	G. M. Bowen	609,607	Aug. 23	2677	625	84	1220
Wagon-seat support	C. Bensene	605,846	June 21	1480	398	83	1671
Wagon shoveling-board. Box-	J. W. Barlow	601,010	Mar. 22	2485	565	82	1744
Wagon, sleigh, and boat. Combined	C. Baltruweit	609,649	Aug. 23	2778	647, 648	84	1240
Wagon. Speed-	F. W. Philips	611,438	Sept. 27	2390	548	84	1951
Wagon-spring	H. K. and H. W. Pell	603,028	Apr. 26	2492	565	83	517
Wagon-spring	W. B. Simpson	598,024	Jan. 25	2702	631	82	574
Wagon-standard attachment	C. A. Roberts	614,134	Nov. 15	1597	366	85	965
Wagon steering and driving mechanism	L. Watkins	607,308	July 12	1262	269	84	260
Wagon-step	C. P. Thornton and W. H. Moody	599,666	Feb. 22	2825	657	82	1198
Wagon-top	W. C. Ashwell	612,225	Oct. 11	1116	267	85	228
Wagon. Undertaker's	J. Zwack	609,530	Aug. 23	2539	595	84	1195
Wagon-wheel	T. T. Jordan	597,647	Jan. 18	2045	478	82	433
Wagon-wheels off car-tracks. Device for throwing	A. F. Humphrey	614,304	Nov. 15	1906	440	85	1022
Wainscoting and parquetry for hard-wood floors, &c.	C. F. Parker	602,769	Apr. 19	2031	460	83	415
Waistband	P. Combier	596,849	Jan. 4	686	158	82	133
Waistbands. Machine for making loop-	H. E. Hawes	596,504	Jan. 4	70	16, 17	82	16
Waist. Child's	G. J. Burns	608,149	July 26	2981	640	84	633
Waist. Lady's	M. E. de Latour	608,688	Aug. 9	936	215	84	860
Wall	J. O. Whitenack	600,392	Mar. 8	1403	321	82	1507
Wall-facing	K. Siebold	600,897	Mar. 22	2292	523	82	1708
Wall, floor, or ceiling plate	W. A. Russell	611,418	Sept. 27	2349	542	84	1945
Wall, floor, or ceiling plate	W. A. Russell	611,419	Sept. 27	2351	542	84	1945
Wall-sizing composition	W. Kahlert	615,714	Dec. 13	907	-----	85	1604
Walls, &c. Construction of supports for building-	R. S. Gillespie	598,418	Feb. 1	610	149	82	718
Walls. Drying damp	C. J. Schulz	597,808	Jan. 25	2339	546	82	504



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Walls, partitions, ceilings, &c. Construction of.....	E. Homan .....	616,329	Dec. 20	2070	482 483	85	1849
Wardrobe .....	S. P. Moulthrop .....	601,855	Apr. 5	464	94	83	86
Warm-air furnace .....	I. D. Smead .....	599,022	Feb. 15	1635	387	82	948
Warp-beam brake .....	H. Wolf .....	610,784	Sept. 13	1161	267	84	1683
Warp-beaming machines. Automatic tension-governor for .....	G. Brown and E. Dick .....	613,004	Oct. 25	2509	597 598	85	526
Warp-drawing-in machine .....	M. F. Field .....	600,670	Mar. 15	1909	435	82	1622
Warp from narrow or short supply-beams. Means for forming wide sheds of .....	I. E. Palmer .....	603,407	May 3	284	63	83	655
Warp-threads. Machine for unwinding .....	Z. H. Mangum .....	605,965	June 21	1716	393 394	83	1716
Warper-comb .....	A. E. Rhoades .....	602,771	Apr. 19	2036	461	83	416
Warping-machine .....	R. Atherton .....	597,871	Jan. 25	2441	568 569	82	524
Warping-reel .....	J. E. Eastwood .....	609,667	Aug. 23	2804	653 654	84	1246
Warping-roller .....	J. Cocker .....	597,956	Jan. 25	2586	604	82	552
Wash and bath tub. Convertible .....	A. Schmid .....	615,499	Dec. 6	541	123	85	1517
Washboard .....	A. A. Bowser .....	596,976	Jan. 11	912	215	82	194
Washboard .....	J. R. Cluxton .....	603,552	May 3	572	126	83	712
Washboard .....	E. F. and L. J. Hedderick .....	610,708	Sept. 13	1022	236	84	1656
Washboard .....	A. S. Ireson .....	608,289	Aug. 2	209	49	84	696
Washboard .....	L. Ritchie .....	603,410	May 3	288	64	83	655
Washboard .....	J. W. Sheppard .....	602,479	Apr. 19	1539	350	83	322
Washboard .....	A. C. Swarth .....	611,529	Sept. 27	2546	588	84	1983
Washboard-fastener .....	H. S. Briggs .....	603,252	May 3	16	4	83	603
Washboiler .....	L. Anderson .....	611,804	Oct. 4	363	87	85	73
Washboiler .....	G. A. Crooker .....	611,060	Sept. 20	1644	376	84	1793
Washboiler .....	A. H. Durand .....	600,491	Mar. 8	1600	366	82	1545
Washboiler .....	C. Louis .....	611,177	Sept. 20	1863	429	84	1835
Washboiler attachment .....	J. N. Emarine .....	604,858	May 31	2987	685	83	1263
Washboiler attachment .....	A. Rantala .....	612,788	Oct. 18	2128	506	85	432
Washer:							
See Barrel-washer. Hinge-washer.							
Bottle-washer. Ore-washer.							
Carriage-washer. Photographic-print washer.							
Clothes-washer. Dish-washer.							
Fire-hose washer. Tumbler-washer.							
Gold-washer. Window-washer.							
Washer-cutting machine .....	M. V. Doyle .....	613,363	Nov. 1	259	58	85	667
Washing device. Clothes- .....	E. B. Jackson .....	613,632	Nov. 1	731	170	85	756
Washing-machine .....	J. Q. Adams .....	611,372	Sept. 27	2266	523 524	84	1930
Washing-machine .....	E. W. Allen .....	605,987	June 21	1758	403	83	1723
Washing-machine .....	H. C. Atkinson .....	598,759	Feb. 8	1182	284	82	844
Washing-machine .....	L. Baird .....	598,839	Feb. 8	1300	315	82	866
Washing-machine .....	J. Bany .....	616,068	Dec. 20	1550	362	85	1745
Washing-machine .....	A. H. Barnhill .....	599,213	Feb. 15	1941	460	82	1004
Washing-machine .....	J. S. Beatty .....	604,292	May 17	1952	437	83	1029
Washing-machine .....	A. M. Belding and C. A. Rice .....	610,117	Aug. 30	3563	826	84	1410
Washing-machine .....	F. S. Blackmarr .....	607,911	July 26	2572	545	84	551
Washing-machine .....	R. N. Brent .....	599,594	Feb. 22	2673	625	82	1167
Washing-machine .....	J. H. Bullock .....	601,121	Mar. 22	2654	606	82	1777
Washing-machine .....	J. R. Carter .....	607,913	July 26	2576	546	84	552
Washing-machine .....	A. A. Casler .....	608,251	Aug. 2	144	36	84	683
Washing-machine .....	A. A. Casler .....	608,400	Aug. 2	419	91	84	739
Washing-machine .....	G. R. Chesnut .....	612,399	Oct. 18	1423	344	85	298
Washing-machine .....	J. W. Craig .....	607,424	July 19	1485	316	84	320
Washing-machine .....	A. W. Davis .....	601,950	Apr. 5	644	135	83	121
Washing-machine .....	W. F. Day .....	613,444	Nov. 1	420	96	85	696
Washing-machine .....	D. I. Eckerson .....	614,710	Nov. 22	2661	606 607	85	1175
Washing-machine .....	S. H. Everitt .....	598,983	Feb. 15	1562	371	82	933
Washing-machine .....	B. A. Fisher .....	604,032	May 17	1472	330	83	937
Washing-machine .....	S. Flowers .....	604,657	May 24	2625	601	83	1175
Washing-machine .....	J. J. and L. C. Francis .....	606,131	June 21	2025	464 465	83	1773
Washing-machine .....	A. S. Fridolph .....	598,597	Feb. 8	905	217	82	793
Washing-machine .....	R. J. Gillham .....	599,175	Feb. 15	1883	445	82	992
Washing-machine .....	W. F. Glidden .....	611,245	Sept. 27	2003	462	84	1881
Washing-machine .....	L. B. Haines .....	612,162	Oct. 11	1015	244	85	208
Washing-machine .....	S. Hartridge .....	598,869	Feb. 8	1355	327	82	877
Washing-machine .....	J. F. Heberger .....	606,782	July 5	283	58	84	56
Washing-machine .....	J. W. Heldreth .....	610,533	Sept. 13	731	166 167	84	1595
Washing-machine .....	A. E. Hodges .....	599,181	Feb. 15	1888	447	82	993
Washing-machine .....	E. H. Isham .....	612,110	Oct. 11	924	224	85	191
Washing-machine .....	F. L. Johnson .....	607,619	July 19	2012	417 418	84	426
Washing-machine .....	H. G. Johnson .....	605,721	June 14	1209	279	83	1603
Washing-machine .....	B. S. Kerr .....	600,585	Mar. 15	1773	405	82	1595
Washing-machine .....	C. C. Kiefer and L. J. Evert .....	616,114	Dec. 20	1648	384	85	1764
Washing-machine .....	W. T. King .....	609,550	Aug. 23	2569	602	84	1201
Washing-machine .....	T. Landon .....	605,962	June 21	1712	392	83	1715
Washing-machine .....	C. A. Latham .....	612,850	Oct. 25	2264	540	85	476
Washing-machine .....	J. W. MacDonald .....	612,907	Oct. 25	2358	562	85	494
Washing-machine .....	J. McAllister .....	608,788	Aug. 9	1100	254 255	84	889
Washing-machine .....	J. Miller .....	610,996	Sept. 20	1535	352	84	1772
Washing-machine .....	J. D. Moser .....	603,511	May 3	500	109	83	698
Washing-machine .....	J. H. Murphy and I. Halferty .....	615,570	Dec. 6	657	151	85	1540
Washing-machine .....	S. M. Musgrave .....	611,701	Oct. 4	197	46	85	41
Washing-machine .....	M. L. Nix .....	612,265	Oct. 11	1197	287	85	243



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Washing-machine	T. V. Norris	608,556	Aug. 2	687	156	84	792
Washing-machine	T. V. Norris	608,557	Aug. 2	689	156	84	792
Washing-machine	P. Petri	603,921	May 10	1236	280	83	856
Washing-machine	J. R. Pring	609,627	Aug. 23	2740	637 638	84	1234
Washing-machine	H. B. Roach	602,567	Apr. 19	1683	383	83	349
Washing-machine	H. F. Seaver	597,206	Jan. 11	1305	304	82	269
Washing-machine	H. L. Selle	599,262	Feb. 15	2018	479	82	1019
Washing-machine	H. E. Smith	600,600	Mar. 15	1794	410	82	1600
Washing-machine	J. K. P. Smith	612,877	Oct. 25	2315	551	85	486
Washing-machine	G. F. Snider	608,722	Aug. 9	990	228	84	870
Washing-machine	O. Spellmeyer	599,023	Feb. 15	1638	387 388	82	948
Washing-machine	J. W. Sprung	601,484	Mar. 29	3312	749	82	1930
Washing-machine	M. Stonebridge	613,401	Nov. 1	346	80	85	681
Washing-machine	J. H. Taylor	599,540	Feb. 22	2571	603	83	1147
Washing-machine	J. B. Turbeville and M. F. Higgs.	601,740	Apr. 5	229	45	83	44
Washing-machine	C. Von Mittendorff	616,509	Dec. 27	2424	561	85	1938
Washing-machine	A. Webber	599,029	Feb. 15	1647	389	82	950
Washing-machine	L. Weil	612,182	Oct. 11	1043	250	85	214
Washing-machine	H. G. Weilage	597,344	Jan. 11	1530	357	82	314
Washing-machine	A. C. F. Wichman	606,699	July 5	114	25	84	25
Washing-machine	A. G. Wilber	614,154	Nov. 15	1627	373 374	85	971
Washing-machine	G. T. Winters	611,306	Sept. 27	2126	491	84	1904
Washing-machine	J. A. Workman	597,571	Jan. 18	1925	448	82	409
Washing-machine. Clothes-	O. Hammarstrom	608,257	Aug. 2	151	38	84	684
Washing or leaching apparatus	R. Moodie	608,554	Aug. 2	685	155	84	791
Washstand	I. C. Williams	613,747	Nov. 8	945	216 217	85	817
Washtub cover. Stationary-	D. W. Trembath	614,217	Nov. 15	1744	401	85	993
Washtub-partition	J. Conway	612,823	Oct. 25	2202	523	85	466
Waste-cleaning apparatus	W. B. Turner	599,070	Feb. 15	1706	404 405	82	962
Watch-box	L. Borgzinner	600,976	Mar. 22	2420	552	82	1731
Watchcase	M. Peirson	601,982	Apr. 5	691	147	83	131
Watchcase-centers. Apparatus for pressing	C. H. Field	615,831	Dec. 13	1113	260 261	85	1644
Watchcase-pendant	W. R. Ramey	609,462	Aug. 23	2415	566	84	1173
Watchcase-spring	W. Arthur	611,748	Oct. 4	273	65	85	56
Watchcase-spring	A. E. Wolkow	613,434	Nov. 1	408	93	85	694
Watch-crystal gage	M. Gordon	609,580	Aug. 23	2627	615	84	1212
Watch-dial fastener	J. W. Brown	613,556	Nov. 1	608	140	85	732
Watch-dial fastener	J. F. Lindvall	598,523	Feb. 8	785	188	82	768
Watch-dial fastener	M. E. Shutterly	599,640	Feb. 22	2777	646	82	1189
Watch-guard link	J. C. Dueber	597,269	Jan. 11	1399	328	82	287
Watch-hand	D. H. Church	605,269	June 7	408	92	83	1429
Watchmaker's gage	W. E. Clow	600,945	Mar. 22	2370	539	82	1723
Watch or clock. Talking	C. Sivan	605,192	June 7	240	57	83	1396
Watch-protector	B. Greenberg	600,000	Mar. 1	588	135	82	1324
Watch. Repeating	C. Prahl	602,036	Apr. 5	776	168	83	147
Watch. Stem winding and setting	L. E. Donnelly and J. H. Looney	613,411	Nov. 1	363	83	85	685
Watch. Stem winding and setting	S. Lesnick	598,522	Feb. 8	783	188	82	768
Watch. Stem winding and setting	F. C. Ries	612,913	Oct. 25	2366	564	85	496
Watch. Stem winding and setting	F. Terstegen	599,459	Feb. 22	2425	571	82	1120
Watch winding-indicator	A. G. Jacobs	609,235	Aug. 16	2006	476	84	1075
Watches, &c. Dial-train for	E. Krahenbuhl	615,719	Dec. 13	916	213 214	85	1605
Water. Apparatus for using compressed air to elevate	S. W. Titus. (Reissue)	11,675	June 28	2978	691	83	1978
Water. Art of and apparatus for drawing clear water from bodies of	J. Noble	614,059	Nov. 8	1445	332	85	915
Water bag or bottle	J. Hardman, Jr	596,502	Jan. 4	64	14	82	15
Water bag or bottle	J. Hardman, Jr	607,235	July 12	1136	243	84	235
Water bag or bottle	J. Hardman, Jr	607,236	July 12	1138	243	84	236
Water-battery. Portable	H. H. Gorter	605,446	June 7	733	166	83	1493
Water-battery. Portable	H. H. Gorter	613,368	Nov. 1	272	61 62 63	85	669
Water by steam. Device for heating	R. Stretch	606,310	June 28	2378	550	83	1851
Water-closet	F. Adeo	613,616	Nov. 1	707	164	85	751
Water-closet	A. W. Cram	605,780	June 14	1330	304	83	1625
Water-closet	D. Hurst	616,843	Dec. 27	3027	703 704	85	2056
Water-closet	D. T. Kenney	613,802	Nov. 8	1039	236 237	85	885
Water-closet	J. J. Phelan	613,846	Nov. 8	1109	253	85	848
Water-closet	D. S. Schureman	604,548	May 24	2447	556	83	1139
Water-closet	J. W. Sharp, Jr., and J. W. Grantland.	605,823	June 14	1404	322	83	1638
Water-closet	R. S. Watson	612,448	Oct. 18	1511	363	85	315
Water-closet attachment	J. A. Frey	601,375	Mar. 29	3125	706	82	1894
Water-closet bowl	W. H. Lloyd	609,992	Aug. 30	3374	784	84	1371
Water-closet bowls. Repair connection for	W. E. Byrnes	608,174	Aug. 2	10	3	84	657
Water-closet cistern	J. D'Esté and G. T. Wilson	614,648	Nov. 22	2545	581	85	1154
Water-closet. Double-vent double-flushing	P. Nicolls	596,823	Jan. 4	649	149	82	125
Water-closet flushing-tank	C. P. Carroll and J. I. Gorman	602,824	Apr. 26	2150	488	83	453
Water-closet flushing-tanks. Seat trip mechanism for	E. E. Townsend	605,150	June 7	170	42	83	1383
Water-closet for railway-carriages, &c. Automatic	W. McLaren	611,458	Sept. 27	2424	556 557	84	1959
Water-closet seat	H. P. Cope	604,558	May 24	2460	560	83	1142
Water-closet, seat, &c. Combination	P. Nicolle	603,732	May 10	882	195 196 197	83	789
Water-closet tank	C. Pfau	602,195	Apr. 12	1060	232	83	213



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Water-closet tanks. Water supplying and controlling apparatus for	A. Burgin.....	607,652	July 19	2075	433	84	438
Water-closet valve	J. M. Cameron.....	611,053	Sept. 20	1634	373	84	1791
Water-closet valve	D. T. Kenney.....	615,622	Dec. 6	746	173	85	1559
Water-closets. Disinfecting or perfuming air of	J. A. Lippincott.....	612,167	Oct. 11	1022	246	85	210
Water-closets, &c. Sanitary fixture for	H. D. Dickinson.....	607,835	July 26	2422	514	84	522
Water. Collecting and conveying	J. Manning.....	599,719	Mar. 1	72	17	82	1230
Water-column	E. D. Cain. (Reissue).....	11,662	May 3	691	154	83	735
Water-column. Electric-alarm	M. L. Bush.....	599,220	Feb. 15	1950	462	82	1006
Water-cooler	F. Guttenberg.....	604,748	May 31	2806	641	83	1228
Water-cooling apparatus	A. Taylor.....	612,635	Oct. 18	1856	439	85	379
Water-cooling device	W. F. Niebling.....	610,946	Sept. 20	1437	330	84	1754
Water-deaerating apparatus	F. K. Sowers, G. L. Vail, and L. M. Pettiddier.....	598,470	Feb. 1	685	167	82	732
Water-elevator	J. B. Overton.....	601,980	Apr. 5	690	146	83	130
Water-elevator	J. H. Renner.....	596,619	Jan. 4	284	62	82	57
Water-elevator	W. H. Strickler.....	607,966	July 26	2660	568	84	568
Water-elevator. Compressed-air	W. A. Mitchell.....	613,168	Oct. 25	2766	652	85	577
Water-gage safety device	H. Froehlich.....	599,603	Feb. 22	2701	631	82	1172
Water-gate	J. Groom.....	602,803	Apr. 19	2105	475	83	429
Water-heater	A. W. Achard.....	603,867	May 10	1142	257	83	838
Water-heater	J. E. Baker.....	609,866	Aug. 30	3130	731	84	1324
Water-heater	J. C. Beckfield.....	608,972	Aug. 9	1477	349	84	959
Water-heater	M. Edelmuth.....	610,939	Sept. 20	1425	328	84	1752
Water-heater	H. F. Gabel.....	600,123	Mar. 1	965	213	82	1407
Water-heater	E. C. Horn and F. Clafin.....	613,372	Nov. 1	278	64	85	671
Water-heater	C. M. Kemp.....	608,291	Aug. 2	213	50	84	697
Water-heater	J. C. Lafrenière.....	612,350	Oct. 11	1348	326	85	270
Water-heater	P. Lindemeyr.....	609,357	Aug. 16	2217	524	84	1116
Water-heater	J. A. Rathbone.....	603,409	May 3	287	64	83	655
Water-heater	J. A. Stevenson.....	604,131	May 17	1661	373	83	972
Water-heater	J. W. Taylor.....	609,596	Aug. 23	2656	621	84	1217
Water-heater	C. R. Tyler and C. F. Pries.....	602,040	Apr. 5	782	169	83	148
Water-heater	L. H. Williams.....	597,927	Jan. 25	2529	591	82	540
Water heater and separator	D. M. Nesbit and W. Clowes.....	614,743	Nov. 22	2718	619	85	1188
Water-heater and smoke-consumer	W. H. Bradley.....	598,973	Feb. 15	1549	368	82	930
Water-heater and steam-generator	J. McCartney.....	610,554	Sept. 13	772	175	84	1603
Water-heater. Automatic	W. L. Miller.....	606,068	June 21	1908	439	83	1750
Water-heater. Automatic	W. L. Miller.....	608,339	Aug. 2	314	69, 70	84	718
Water-heater. Automatic	E. Ruud.....	610,281	Sept. 6	271	59	84	1494
Water-heater for bath-tubs	J. Kern.....	599,339	Feb. 22	2184	519	82	1072
Water-heater. Gas	M. G. Cunningham.....	606,126	June 21	2018	462	83	1771
Water-heater. Gas	D. N. Hurlbut.....	613,999	Nov. 8	1359	309	85	898
Water-heater. Instantaneous	A. G. Ward.....	597,130	Jan. 11	1183	278	82	246
Water-heater. Multiple-tube	A. P. Broomell.....	603,169	Apr. 26	2729	621	83	564
Water-heater or boiler	M. O. Roberts.....	596,717	Jan. 4	466	106	82	91
Water heater or condenser	W. F. Ray.....	602,521	Apr. 19	1607	368	83	335
Water-heater or steam-boiler	M. O. Roberts.....	596,718	Jan. 4	468	107	82	91
Water-heater. Portable	C. R. Tyler.....	601,452	Mar. 29	3263	738	82	1920
Water-level indicator	W. C. Flöring.....	607,563	July 19	1908	394	84	407
Water-lifting machine	A. J. Vance.....	604,242	May 17	1863	418	83	1011
Water. Means for using compressed air for raising	W. D. Andrews.....	600,703	Mar. 15	1971	449	82	1633
Water-meter	G. B. Bassett.....	608,168	Aug. 2	3	1	84	655
Water-meter	J. K. Hill.....	608,602	Aug. 9	777	178	84	829
Water-meter	J. Thomson.....	602,378	Apr. 12	1361	304	83	274
Water-meters. Apparatus for preventing damage to	J. Thomson.....	602,377	Apr. 12	1360	304	83	274
Water-motor	W. W. Moyer.....	609,692	Aug. 23	2848	666	84	1254
Water-motor	B. Pickering.....	616,138	Dec. 20	1711	397	85	1775
Water-motor	A. Rosenberg.....	606,361	June 28	2477	575	83	1880
Water-motor	E. A. Rudasill.....	601,906	Apr. 5	547	113	83	104
Water-motor	I. H. Spencer.....	612,596	Oct. 18	1766	417	85	362
Water-motor	W. Turner.....	611,874	Oct. 4	490	118	85	98
Water-motor	J. A. Walker.....	616,278	Dec. 20	1979	461	85	1831
Water-motor apparatus	R. J. Gilmore.....	597,901	Jan. 25	2486	580	82	532
Water or other liquid to be obtained. Coin-freed apparatus for enabling supplies of	R. J. Streatfeild.....	600,810	Mar. 15	2140	489	82	1666
Water. Process of and apparatus for purifying	M. and G. Glaesener and E. D'Huaut.....	607,361	July 12	1354	289	84	279
Waterproof fabric	J. H. Stevens.....	612,066	Oct. 11	848	-----	85	176
Waterproof fabric	J. H. Stevens.....	612,067	Oct. 11	849	-----	85	176
Waterproof fabric	J. H. Stevens.....	612,553	Oct. 18	1689	-----	85	349
Waterproof fabric	J. H. Stevens.....	615,319	Dec. 6	167	-----	85	1445
Waterproof fabric	W. H. Wood and J. H. Stevens.....	603,001	Apr. 26	2450	-----	83	510
Waterproof material	F. L. Borwell.....	596,842	Jan. 4	676	156	82	131
Waterproof trousers	F. A. Isaacson.....	608,126	July 26	2944	631	84	627
Waterproofing compound	W. A. Hall.....	609,200	Aug. 16	1922	-----	84	1056
Waterproofing material	C. R. Smith.....	607,773	July 19	2267	-----	84	475
Water-purifier	C. Applegate.....	603,548	May 3	565	124	83	710
Water-purifier	E. Lind.....	598,635	Feb. 8	977	236	82	805
Water purifying and aerating apparatus	C. P. Allen.....	603,990	May 10	1343	307	83	877
Water-purifying apparatus	A. A. Ellis.....	604,491	May 24	2346	532	83	1122
Water-purifying apparatus	J. F. Hand.....	615,846	Dec. 13	1137	266	85	1648
Water-purifying apparatus	W. Lawrence.....	607,059	July 12	791	172	84	172
Water-purifying apparatus	R. S. Mayer.....	600,206	Mar. 8	1099	250	82	1449
Water-purifying apparatus	R. S. Mayer.....	616,243	Dec. 20	1919	444	85	1818
Water-purifying apparatus	S. McElroy.....	610,849	Sept. 13	1270	293	84	1706
Water-purifying apparatus. Sewage	J. S. Miller.....	603,221	Apr. 26	2813	642	83	579
Water raising and emptying device for wells	J. B. Price.....	613,017	Oct. 25	2527	601	85	529
Water-raising device	W. S. Lempert.....	599,658	Feb. 22	2812	653	82	1196



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Water-regulator .....	R. Knaack .....	601,265	Mar. 29	2918	664	82	1854
Water seal and valve-trap .....	Z. Latshaw .....	602,685	Apr. 19	1903	433	83	391
Water-service. Domestic .....	A. J. Tyler .....	607,778	July 19	2279	481	84	477
Water-spraying apparatus .....	H. Guntow .....	602,074	Apr. 12	840	182	83	171
Water sterilizing and purifying apparatus .....	N. van der Sleen and A. Schneller .....	596,917	Jan. 4	800	189	82	156
Water-sterilizing apparatus .....	L. Maiche .....	597,994	Jan. 25	2654	620	82	564
Water-supply developing and regulating apparatus .....	H. V. Hinckley .....	614,653	Nov. 22	2553	582	85	1155
Water-tank .....	W. M. Stevenson and W. K. Bailey .....	602,373	Apr. 12	1352	302	83	272
Water-tank and faucet. Antiseptic .....	P. J. McNerney and G. L. Haymond .....	597,912	Jan. 25	2506	586	82	536
Water-tank machine. Grout .....	F. E. Gregory .....	604,387	May 24	2138	480	83	1085
Water-tower .....	H. C. Schmidt .....	602,244	Apr. 12	1133	249	83	228
Water-trap .....	J. Patton .....	609,747	Aug. 23	2927	684	84	1270
Water-tube boiler .....	A. A. M. E. d'Aboville .....	616,565	Dec. 27	2517	582	85	1956
Water-tube boiler .....	J. G. Briegel .....	601,335	Mar. 29	3067	691	82	1883
Water-tube boiler .....	G. N. Clemson .....	600,683	Mar. 15	1935	440	82	1626
Water-tube boiler .....	E. F. Edgar .....	602,501	Apr. 19	1570	358	83	328
Water-tube boiler .....	W. Hammond .....	599,234	Feb. 15	1970	467	82	1009
Water-tube boiler .....	J. H. Hopwood .....	603,565	May 3	590	131	83	715
Water-tube boiler .....	A. E. Howland .....	613,839	Nov. 8	1096	249	85	845
Water-tube boiler .....	C. C. S. Knap .....	606,153	June 21	2065	474	83	1780
Water-tube boiler .....	W. A. Lloyd .....	604,993	May 31	3200	736	83	1305
Water-tube boiler .....	L. M. Moyes .....	604,777	May 31	2848	651	83	1236
Water-tube boiler .....	H. S. Pell .....	597,151	Jan. 11	1212	284	82	252
Water-tube boiler .....	H. S. Pell .....	597,152	Jan. 11	1214	285	82	252
Water-tube boiler .....	J. G. Schmidt .....	607,284	July 12	1225	262	84	253
Water-tube boiler. Upright .....	W. J. Wickes and L. Baker .....	604,509	May 24	2375	540	83	1127
Water-tube boiler. Vertical .....	F. G. Gasche .....	616,531	Dec. 27	2463	569	85	1945
Water-tube boiler. Vertical .....	J. Pierpoint .....	600,374	Mar. 8	1372	313	82	1501
Water-tube safety-boiler .....	J. J. Blackmore .....	615,242	Dec. 6	17	4	85	1414
Water walls on outside of buildings. Arrangement for producing .....	I. Zawiejski .....	609,316	Aug. 16	2159	510	84	1105
Water-wheel .....	J. D. Campbell .....	611,769	Oct. 4	304	73	85	62
Water-wheel .....	F. Jacob .....	607,042	July 12	732	158	84	163
Water-wheel .....	A. Kenney .....	603,770	May 10	952	212	83	802
Water-wheel .....	C. T. Monroe .....	600,737	Mar. 15	2032	463	82	1646
Water-wheel .....	D. Morgan .....	598,802	Feb. 8	1244	301	82	855
Water-wheel .....	L. Strauss .....	612,554	Oct. 18	1690	401	85	349
Water-wheel bucket .....	E. P. Jones .....	599,845	Mar. 1	320	72	82	1273
Water-wheel bucket. Momentum .....	G. H. Johnson .....	607,246	July 13	1156	247	84	238
Water-wheel governor .....	E. E. Woodward .....	608,245	Aug. 2	135	33, 34	84	681
Water-wheel. Turbine .....	S. and A. C. Martin .....	600,735	Mar. 15	2023	461	82	1643
Waterer. Stock .....	W. J. Scott .....	614,238	Nov. 15	1800	415	85	1002
Waterer. Stock .....	B. W. Tuttle .....	607,301	July 12	1248	266	84	258
Watering device. Live-stock .....	L. Pray .....	600,929	Mar. 22	2346	533	82	1718
Watering-pot .....	E. H. and H. E. Whitney .....	598,126	Feb. 1	93	22	82	620
Watering-trough .....	H. Dey .....	603,321	May 3	137	32	83	628
Watering-trough. Automatic .....	C. C. Denny .....	599,318	Feb. 22	2141	508	82	1064
Watering-trough. Automatic .....	B. F. Heckaman .....	610,707	Sept. 13	1021	236	84	1656
Wattmeter. Motor .....	C. D. Raab .....	604,501	May 24	2361	535	83	1125
Wave and stream motor .....	J. T. Breneman .....	596,801	Jan. 4	610	141	82	117
Wave-motor .....	H. R. Alden .....	602,796	Apr. 19	2089	472	83	425
Wave-motor .....	M. Barthel .....	610,378	Sept. 6	459	100	84	1526
Wave-motor .....	J. H. Bunnell .....	601,238	Mar. 29	2872	655	82	1845
Wave-motor .....	F. J. Hagen .....	616,615	Dec. 27	2601	603	85	1970
Wave-motor .....	S. H. Jones .....	616,468	Dec. 27	2337	544	85	1923
Wave-motor .....	J. W. Pitts .....	613,075	Oct. 25	2626	621	85	549
Wave-motor .....	R. J. Robinson and W. A. Nelden .....	606,632	June 28	2962	687	83	1975
Wave-motor .....	P. Wright .....	599,756	Mar. 1	143	33	82	1243
Wave-motor. Air-compressing .....	J. H. Leonard .....	606,561	June 28	2838	654	83	1952
Wave or current motor .....	G. Lofgren .....	604,211	May 17	1807	406	83	1001
Wave-power .....	J. M. Dyer .....	597,552	Jan. 18	1888	438	82	402
Wave-power .....	J. M. Dyer .....	597,553	Jan. 18	1889	438	82	402
Wave-power .....	H. Lotzgesell .....	597,118	Jan. 11	1163	273	82	242
Wave-power .....	J. M. Palmer .....	597,832	Jan. 25	2374	554	82	510
Wave-power .....	J. M. Palmer .....	597,833	Jan. 25	2380	555	82	512
Wave-power. Direct-acting .....	J. M. Palmer .....	607,072	July 12	816	178	84	177
Wave-power-utilizing device .....	H. E. Rider .....	612,549	Oct. 18	1677	399	85	346
Wax, &c. Apparatus for melting and applying sealing .....	D. M. Meeker .....	600,619	Mar. 15	1819	417	82	1604
Wax. Device for applying sealing .....	H. E. Rider .....	600,992	Mar. 22	2448	558	82	1737
Wax. Floor .....	W. H. Bowdlear .....	613,750	Nov. 8	950		85	818
Weaner. Calf .....	B. P. Merry .....	610,944	Sept. 20	1435	330	84	1754
Weapon of defense .....	F. Garrett .....	608,666	Aug. 9	898	205	84	852
Weather-signal indicator .....	J. G. Wall .....	598,124	Feb. 1	88	21	82	619
Weather-strip .....	D. W. Bosley .....	616,695	Dec. 27	2777	646	85	2005
Weather-strip .....	L. Ender .....	615,542	Dec. 6	317	140	85	1532
Weather-strip .....	C. M. Eveleth .....	609,798	Aug. 30	6017	706	84	1301
Weather-strip .....	J. Follansbee .....	604,676	May 24	2661	610	83	1183
Weather-strip .....	J. H. Foote .....	612,492	Oct. 18	1586	379	85	329
Weather-strip .....	W. A. Ford and J. C. Mormann .....	600,640	Mar. 15	1850	423	82	1611
Weather-strip .....	H. H. Franzen .....	606,382	June 28	2514	584	83	1887



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Weather-strip.....	G. W. Golden.....	611,247	Sept. 27	2007	463	84	1882
Weather-strip.....	J. M. March.....	598,981	Feb. 1	531	129	82	702
Weather-strip.....	E. E. Steiner.....	608,275	Aug. 2	180	43	84	690
Weather-strip.....	J. T. Watts.....	605,590	June 14	967	224	83	1558
Weather-strip.....	T. E. West.....	613,342	Nov. 1	214	48	85	652
Weather-strip and door-check. Combined.....	N. F. Cave.....	611,676	Oct. 4	147	36	85	37
Weather-strip. Automatically-operated.....	G. Kroencke.....	615,189	Nov. 29	3559	819	85	1366
Weather-strip for doors.....	T. A. Watson.....	610,113	Aug. 30	3556	825	84	1408
Weather-strip for doors.....	W. F. Wilmot.....	610,219	Sept. 6	146	33	84	1471
Weather-strip for doors. Automatic.....	F. Fowler and A. M. Ulmer.....	614,713	Nov. 22	2665	108	85	1176
Weaver. Perpendicular hand-.....	J. Copeland.....	614,793	Nov. 22	2800	642	85	1203
Weaving double-plush fabrics. Double-acting jac- quard-machine for.....	E. Claviez.....	616,769	Dec. 27	2896	671 672 673	85	2029
Weaving-machine shifting mechanism.....	E. F. Shellabarger.....	613,398	Nov. 1	338	77 78 79	85	680
Weaving-needle.....	E. Morris.....	609,450	Aug. 23	2393	562	84	1169
Weaving-thread.....	E. Morris.....	609,451	Aug. 23	2395	562	84	1169
Web-cutting mechanism.....	G. F. Read.....	608,624	Aug. 9	812	188 189	84	834
Web-drier. Vacuum.....	H. Parker and H. Fairbanks.....	612,931	Oct. 25	2396	570 571	85	503
Web-feeding mechanism.....	H. Casler.....	611,590	Sept. 27	2673	617 618	84	2006
Web finishing and pressing machine.....	J. Edmunds.....	614,448	Nov. 22	2188	502	85	1090
Web tension device.....	I. Stone.....	612,958	Oct. 25	2436	581	85	511
Wedge for securing handles in tools.....	J. O'Keefe.....	600,741	Mar. 15	2036	465	82	1647
Wedges for splitting stone, &c. Means for making.....	E. B. Roth.....	603,513	May 3	505	110	83	698
Weed-cutter.....	J. Branagan.....	610,164	Sept. 6	7	2, 3	84	1444
Weed-cutting implement.....	G. H. Brune.....	607,392	July 12	1415	302	84	290
Weed-cutting machine.....	D. O. Hite.....	615,553	Dec. 6	631	144	85	1535
Weed-exterminating apparatus.....	R. W. Campbell.....	603,939	May 10	1263	287	83	862
Weeds. Composition for killing.....	A. P. F. Gammack.....	615,444	Dec. 6	427	85	1495	
Weeds. Machine for burning seeds of noxious.....	J. J. Setter.....	610,612	Sept. 13	865	199	84	1623
Weeder.....	G. B. Davison.....	601,504	Mar. 29	3351	759	82	1938
Weeder.....	D. Y. and D. E. Hallock.....	600,782	Mar. 15	2094	479	82	1658
Weeder.....	L. Krub.....	598,251	Feb. 1	317	73	82	662
Weeder.....	J. E. Sperry.....	610,003	Aug. 30	3390	786	84	1374
Weigher and measure. Grain.....	J. W. Dutton and A. Crawford.....	602,060	Apr. 12	813	176	83	165
Weigher and sacker. Rotating.....	J. H. Hoolihan.....	614,719	Nov. 22	2679	610	85	1179
Weigher. Automatic.....	J. B. Schuman.....	609,908	Aug. 30	3204	751	84	1338
Weighing and delivering apparatus.....	F. H. Richards.....	600,039	Mar. 1	724	166	82	1354
Weighing and delivering apparatus.....	F. H. Richards.....	600,040	Mar. 1	730	166 167	82	1355
Weighing and filling apparatus.....	J. E. J. Goodlett.....	608,117	July 26	2930	627 628	84	624
Weighing and measuring apparatus. Combined.....	H. F. Eaton.....	601,224	Mar. 22	2841	649	82	1812
Weighing and measuring device.....	S. A. Bhise.....	603,122	Apr. 26	2656	603 604	83	549
Weighing and recording apparatus. Coal.....	C. Ingrey.....	607,855	July 26	2468	523 524	84	531
Weighing apparatus.....	F. W. Olin.....	601,674	Apr. 5	86	17	83	17
Weighing apparatus.....	F. W. Olin.....	605,127	June 7	101	27	83	1371
Weighing apparatus.....	F. H. Richards.....	615,198	Nov. 29	3589	826 827	85	1371
Weighing apparatus. Automatic.....	G. Anderson.....	603,371	May 3	218	49	83	643
Weighing apparatus or plant.....	F. H. Richards.....	600,031	Mar. 1	681	155 156	82	1345
Weighing-machine.....	J. P. Armstrong.....	606,831	July 5	369	77, 78	84	73
Weighing-machine.....	J. Christiansen.....	616,852	Dec. 27	3045	708	85	2060
Weighing-machine.....	F. H. Richards.....	600,022	Mar. 1	636	144 145	82	1335
Weighing-machine.....	F. H. Richards.....	600,023	Mar. 1	645	146	82	1337
Weighing-machine.....	F. H. Richards.....	600,024	Mar. 1	650	146 147	82	1338
Weighing-machine.....	F. H. Richards.....	600,025	Mar. 1	654	148 149	82	1339
Weighing-machine.....	F. H. Richards.....	600,026	Mar. 1	657	149 150	82	1339
Weighing-machine.....	F. H. Richards.....	600,027	Mar. 1	661	151	82	1340
Weighing-machine.....	F. H. Richards.....	600,028	Mar. 1	666	152 153	82	1341
Weighing-machine.....	F. H. Richards.....	600,029	Mar. 1	671	153 154	82	1342
Weighing-machine.....	F. H. Richards.....	600,030	Mar. 1	675	154 155	82	1343
Weighing-machine.....	F. H. Richards.....	600,032	Mar. 1	686	156 157	82	1346
Weighing-machine.....	F. H. Richards.....	600,034	Mar. 1	692	157 158	82	1347
Weighing-machine.....	F. H. Richards.....	600,036	Mar. 1	705	161 162	82	1350
Weighing-machine.....	F. H. Richards.....	600,037	Mar. 1	711	162 163	82	1351
Weighing-machine.....	F. H. Richards.....	600,038	Mar. 1	716	164 165	82	1352
Weighing-machine.....	F. H. Richards.....	600,042	Mar. 1	745	169 170	82	1359
Weighing-machine.....	F. H. Richards.....	600,043	Mar. 1	749	171 172	82	1360
Weighing-machine.....	F. H. Richards.....	600,044	Mar. 1	753	172 173	82	1361
Weighing-machine.....	F. H. Richards.....	606,243	June 28	2252	521 522	83	1835
Weighing-machine.....	F. H. Richards.....	607,455	July 19	1541	328 329	84	330



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Weighing-machine.....	F. H. Richards .....	607,460	July 19	1577	332 333 340	84	341
Weighing-machine.....	F. H. Richards .....	607,465	July 19	1623	341 342 342	84	353
Weighing-machine.....	F. H. Richards .....	607,466	July 19	1630	343 354 355	84	354
Weighing-machine.....	F. H. Richards .....	607,474	July 19	1701	356 357 358	84	367
Weighing-machine.....	F. H. Richards .....	607,475	July 19	1712	358 359 360	84	370
Weighing-machine.....	F. H. Richards .....	607,476	July 19	1720	361 362 362	84	371
Weighing-machine.....	F. H. Richards .....	607,478	July 19	1731	363 366 367	84	374
Weighing-machine.....	F. H. Richards .....	607,479	July 19	1742	821 822 823	84	377
Weighing-machine.....	F. H. Richards .....	607,482	July 19	1754	824 825 826	84	380
Weighing-machine.....	F. H. Richards .....	615,195	Nov. 29	3570	827 828 829	85	1368
Weighing-machine.....	F. H. Richards .....	615,197	Nov. 29	3581	119 120 121	85	1370
Weighing-machine.....	F. H. Richards .....	615,199	Nov. 29	3598	122 123 611	85	1374
Weighing-machine.....	F. H. Richards .....	615,494	Dec. 6	514	612 613 614	85	1511
Weighing-machine.....	F. H. Richards .....	615,495	Dec. 6	524	710 711 712	85	1513
Weighing-machine.....	F. H. Richards .....	615,496	Dec. 6	530	713 714 715	85	1514
Weighing-machine.....	F. H. Richards .....	616,634	Dec. 27	2640	716 717 720	85	1978
Weighing-machine.....	F. H. Richards .....	616,635	Dec. 27	2647	721 707 367	85	1979
Weighing-machine.....	F. H. Richards .....	616,854	Dec. 27	3057	368 709 710	85	2063
Weighing-machine.....	F. H. Richards .....	616,855	Dec. 27	3062	262 263 159	85	2064
Weighing-machine.....	F. H. Richards .....	616,857	Dec. 27	3071	160 167 168	85	2065
Weighing-machine.....	F. H. Richards .....	616,858	Dec. 27	3078	333 334 335	85	2066
Weighing-machine.....	F. H. Richards .....	616,859	Dec. 27	3083	336 337 338	85	2068
Weighing-machine.....	F. H. Richards .....	616,862	Dec. 27	3102	339 340 343	85	2072
Weighing-machine.....	F. H. Richards .....	616,863	Dec. 27	3106	344 345 345	85	2072
Weighing-machine.....	F. E. Thompson .....	616,851	Dec. 27	3041	346 347 359	85	2060
Weighing-machine. Automatic.....	J. Christiansen .....	607,483	July 19	1764	360 363 364	84	381
Weighing-machine. Automatic.....	J. Christiansen .....	616,853	Dec. 27	3050	365 366 366	85	2061
Weighing-machine. Automatic.....	W. H. Pierce.....	613,866	Nov. 8	1146	367 368 368	85	855
Weighing-machine. Automatic.....	F. H. Richards .....	600,035	Mar. 1	699	369 370 370	82	1349
Weighing-machine. Automatic.....	F. H. Richards .....	600,041	Mar. 1	738	371 372 372	82	1357
Weighing-machine. Automatic.....	F. H. Richards .....	607,461	July 19	1590	373 374 374	84	345
Weighing-machine. Automatic.....	F. H. Richards .....	607,462	July 19	1597	375 376 376	84	346
Weighing-machine. Automatic.....	F. H. Richards .....	607,463	July 19	1602	377 378 378	84	348
Weighing-machine. Automatic.....	F. H. Richards .....	607,464	July 19	1612	379 380 380	84	350
Weighing-machine. Automatic.....	F. H. Richards .....	607,467	July 19	1636	381 382 382	84	355
Weighing-machine. Automatic.....	F. H. Richards .....	607,468	July 19	1643	383 384 384	84	356
Weighing-machine. Automatic.....	F. H. Richards .....	607,477	July 19	1726	385 386 386	84	373
Weighing-machine. Automatic.....	F. H. Richards .....	607,480	July 19	1745	387 388 388	84	377
Weighing-machine. Automatic.....	F. H. Richards .....	607,481	July 19	1749	389 390 390	84	378
Weighing-machine. Automatic.....	F. H. Richards .....	615,196	Nov. 29	3575	391 392 392	85	1369
Weighing-machine. Automatic.....	F. H. Richards .....	615,200	Nov. 29	3603	393 394 394	85	1375



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Weighing-machine. Automatic.....	F. H. Richards .....	615,201	Nov. 29	3610	830	85	1376
Weighing-machine. Automatic.....	F. H. Richards .....	615,493	Dec. 6	509	831	85	1510
Weighing-machine. Automatic.....	F. H. Richards .....	616,633	Dec. 27	2633	610	85	1976
Weighing-machine. Automatic.....	F. H. Richards .....	616,856	Dec. 27	3067	712	85	2065
					713		
Weighing-machine. Automatic.....	F. H. Richards .....	616,860	Dec. 27	3088	717	85	2069
					718		
					719		
Weighing-machine. Automatic.....	F. H. Richards .....	616,861	Dec. 27	3093	719	85	2070
Weighing-machine. Automatic.....	F. H. Richards .....	616,864	Dec. 27	3113	722	85	2074
Weighing-machine bearing.....	F. H. Richards .....	600,021	Mar. 1	632	144	82	1334
Weighing machine. Milk.....	R. C. Mealey.....	605,889	June 21	1561	359	83	1688
Weighing-machine printing-register.....	H. and R. N. Fairbanks.....	613,982	Nov. 8	1334	303	85	892
Weighing-machine recording apparatus.....	F. H. Richards .....	607,473	July 19	1685	352	84	365
					353		
					354		
Weighing-receptacle.....	G. A. Baumann.....	607,010	July 12	677	147	84	154
Weighing-scoop.....	G. H. Watkins.....	607,578	July 19	1935	401	84	412
Weighing-scoop.....	A. A. West.....	609,644	Aug. 23	2770	646	84	1239
Weighing-scoop.....	J. M. Withrow.....	598,406	Feb. 1	568	138	82	711
Weighing-truck.....	O. W. Parsell.....	606,735	July 5	175	39	84	36
Weighing-truck.....	O. W. Parsell.....	609,902	Aug. 30	3196	749	84	1336
Welded joint. Electrically.....	R. Eyre and W. Dishong.....	616,435	Dec. 20	2265	529	85	1888
Welding apparatus.....	C. L. Rowland.....	598,960	Feb. 15	1520	362	82	925
					363		
Welding, brazing, and soldering by electricity. Ap- paratus for.....	A. Hirsch.....	606,342	June 28	2441	566	83	1874
Welding carbon. Electric.....	G. W. de Tunzelmann.....	616,165	Dec. 20	1766	409	85	1788
Welding compound.....	H. Eberding.....	601,436	Mar. 29	3236	82	1915	
Welding. Electric.....	H. F. A. Kleinschmidt.....	616,436	Dec. 20	2267	529	85	1889
Welding. Electric.....	H. F. A. Kleinschmidt.....	616,437	Dec. 20	2268	529	85	1889
Welding-machine. Electric.....	C. Nielson.....	601,979	Apr. 5	689	146	83	130
Welding. Track.....	R. Eyre.....	602,284	Apr. 12	1210	266	83	243
					267		
Well-boring machine. Hydraulic.....	G. W. Durbrow.....	597,316	Jan. 11	1467	344	82	302
Well-casing head. Oil.....	W. F. Ottney.....	608,899	Aug. 9	1326	309	84	931
Well cleaner. Gas.....	I. K. Hall.....	600,529	Mar. 15	1675	382	82	1578
Well-cleaning device. Oil.....	W. C. Edwards.....	598,700	Feb. 8	1091	262	82	826
Well-curb.....	A. A. James.....	606,150	June 21	2062	473	83	1779
Well-curb trough.....	J. R. G. Reeves.....	603,344	May 3	175	44	83	635
Well-drill.....	E. Lawton.....	602,339	Apr. 12	1296	287	83	261
Well-drilling cable.....	S. Adams.....	602,419	Apr. 19	1436	324	83	303
Well-drilling machine.....	J. Mauger.....	599,911	Mar. 1	449	99	82	1298
					100		
					273		
Well-drilling machine.....	I. A. Weaver.....	608,810	Aug. 9	1169	274	84	901
Well-drilling-machine attachment.....	C. S. Wright.....	600,189	Mar. 8	1076	243	82	1444
Well-drilling machine. Oil.....	J. H. Moore.....	600,437	Mar. 8	1479	337	82	1321
					338		
Well drilling tools. Temper-screw for oil or Artesian.....	P. H. Mack.....	610,239	Sept. 6	183	41	84	1477
Well fishing-tool. Oil.....	R. D. Green.....	615,162	Nov. 29	3513	807	85	1357
Well fishing-tool. Oil.....	B. D. Thompson.....	615,589	Dec. 6	689	158	85	1547
Well indicator. Oil.....	O. H. Burdett.....	597,572	Jan. 18	1925	448	82	409
Well packer. Tubular.....	A. D. Cook.....	597,493	Jan. 18	1802	417	82	384
Well. Tube.....	S. W. Titus.....	602,547	Apr. 19	1652	376	83	343
Well tubes or casings. Cutting and joint-indicat- ing device for.....	S. W. Munn.....	598,805	Feb. 8	1249	302	82	856
Well-tubing attachment. Oil.....	A. C. Smith.....	605,756	June 14	1264	292	83	1613
Well-tubing-lifting device.....	O. S. Michael.....	598,527	Feb. 8	790	189	82	769
Wells. Device for removing drilling-tools from.....	F. M. Kiser.....	614,814	Nov. 22	2839	654	85	1211
Wells. Mechanism for lifting pipes or rods from.....	G. Allsup and G. D. Barry.....	609,398	Aug. 23	2299	543	84	1150
Wells, &c. Shot-anchor for oil.....	C. A. and H. F. Straub.....	615,321	Dec. 6	169	44	85	1446
Welsbach or other incandescent light.....	R. F. Rankin.....	600,090	Mar. 1	850	195	82	1380
Welt.....	J. B. Hadaway and T. H. Anderson.....	600,867	Mar. 22	2241	511	82	1699
Welt-beating machine.....	Z. T. French and W. C. Meyer.....	598,727	Feb. 8	1135	273	82	835
Welt-guide.....	W. J. Drey.....	610,323	Sept. 6	350	75	84	1508
Whalebone. Artificial.....	W. A. C. Hunkemöller.....	616,465	Dec. 27	2326	85	1920	
Wheat cleaner and heater.....	L. D. Bruemmer.....	615,382	Dec. 6	307	72	85	1472
Wheat separator and washer.....	A. Johnson.....	615,713	Dec. 13	905	210	85	1608
					211		
Wheel:							
See Abrading-wheel. Metallic wheel.							
Barrow-wheel. Paddle-wheel.							
Bearing-wheel. Plow gage-wheel.							
Bible-wheel. Pneumatic-tired wheel.							
Bicycle-wheel. Polishing-wheel.							
Buffing-wheel. Power-wheel.							
Car-wheel. Prospecting-wheel.							
Car fifth-wheel. Rotary wheel.							
Car or locomotive wheel. Rubber-tired wheel.							
Cog-wheel. Self-oiling wheel.							
Cycle-wheel. Sprocket-wheel.							
Cycle chain-wheel. Traction-wheel.							
Cycle drive-wheel. Trolley-wheel.							
Cycle or like wheel. Turbine wheel.							
Elastic-tired wheel. Valve-wheel.							
Fifth-wheel. Vehicle-wheel.							
Fly-wheel. Vehicle spring-wheel.							
Gear-wheel. Vehicle steering-wheel.							
Gearing-wheel. Velocipede chain-wheel.							
Liquid-elevating wheel. Ventilating-wheel.							
Metal wheel. Wagon-wheel.							
	Water-wheel.						
	Wind-wheel.						
Wheel.....	J. E. Compton.....	603,259	May 3	28	7	83	605



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Wheel	C. E. Ervin and O. E. Fryatt	598,366	Feb. 1	512	123	82	698
Wheel	R. M. Keating	607,175	July 12	1012	220	84	213
Wheel	G. Kitzelman	608,292	Aug. 2	215	50	84	697
Wheel	J. Lloyd	606,868	July 5	436	93	84	86
Wheel	J. Macphail	609,203	Aug. 16	1929	458	84	1057
Wheel	G. Millen	605,112	June 7	76	22	83	1367
Wheel	M. H. Smith	606,365	June 28	2482	576 577	83	1881
Wheel	C. D. Stevens	601,802	Apr. 5	338	68	83	63
Wheel	A. J. Vandegrift	602,999	Apr. 26	2445	558	83	508
Wheel	J. W. Wheeldon	597,346	Jan. 11	1533	357	82	315
Wheel-adjusting device. Rear-	A. Benson	609,403	Aug. 23	2309	545	84	1152
Wheel and tiring same	H. M. Du Bois	613,257	Nov. 1	52	13	85	627
Wheel-assembling machine. Bicycle-	C. T. Austen	615,780	Dec. 13	1032	242 243 244	85	1627
Wheel-assembling machine. Bicycle-	A. Craig and C. T. Austen	616,081	Dec. 20	1576	367 368	85	1750
Wheel-carrying implement	J. M. Rhodes	608,479	Aug. 2	554	123	84	765
Wheel-chair and baby-carriage. Combined	J. A. Crandall	601,500	Mar. 29	3345	757	82	1937
Wheel cleaner. Vehicle-	M. Ash	601,623	Apr. 5	1	1	83	3
Wheel decorative attachment	J. P. Peters	607,703	July 19	2160	454	84	454
Wheel for motor-cars, &c.	F. R. Simms	605,022	May 31	3251	747	83	1314
Wheel guard. Vehicle-	H. F. Ganon	599,294	Feb. 15	2079	493	82	1030
Wheel-guard. Vehicle	F. J. Singleton and R. R. de la Gil- tonniere.	602,480	Apr. 19	1540	350	83	323
Wheel-holder	M. E. and G. A. Zurbrigg	612,692	Oct. 18	1950	461	85	398
Wheel lacing and truing chuck	H. T. Kingsbury	597,613	Jan. 18	1992	464	82	423
Wheel lock or guard. Vehicle-	A. Koch	599,848	Mar. 1	327	73	82	1274
Wheel-repairing device	W. P. Bonham	597,455	Jan. 18	1738	402	82	371
Wheel-rim	L. D. Junkins	602,020	Apr. 5	745	160	83	141
Wheel-rim	F. W. Starr	598,329	Feb. 1	453	108	82	688
Wheel-rim and resilient tire	H. Constable	613,972	Nov. 8	1311	299	85	887
Wheel rim and tire	S. C. Davidson	612,583	Oct. 18	1746	414	85	358
Wheel-rim. Cycle or other road	J. C. Grant	613,674	Nov. 8	791	181	85	788
Wheel rim-joint. Vehicle-	F. L. Brandon and A. Roop	602,123	Apr. 12	922	201	83	186
Wheel rim-joint. Vehicle-	G. L. Wiser	601,925	Apr. 5	575	119	83	109
Wheel-rims. Means for making	J. Zühlke	602,926	Apr. 26	2325	529	83	487
Wheel-scraper	S. S. Holbrook	613,994	Nov. 8	1351	308	85	896
Wheel scraper. Vehicle-	E. Brusseau	612,819	Oct. 25	2194	521	85	464
Wheel-wrench	C. W. Spengler	603,156	Apr. 26	2712	616 617	83	561
Wheels. Apparatus for manufacturing worm-	J. G. Reinecker	611,277	Sept. 27	2077	478	84	1895
Wheels. Attachment for traveling	S. Hodgson	611,451	Sept. 27	2412	453	84	1956
Wheels. Automatic indicator for truing	G. Brown	603,782	May 10	971	217	83	805
Wheels. Machine for assembling cycle or similar	E. Hurst and A. J. E. Jones	610,652	Sept. 13	927	214	84	1636
Wheels. Machine for truing or facing band-	A. J. West	599,374	Feb. 22	2248	533 534	82	1085
Wheels. Manufacture of	A. A. Stevenson	600,809	Mar. 15	2139	488	82	1666
Wheels to axles. Means for securing	B. J. Maloney	607,064	July 12	800	175	84	174
Wheelbarrow	H. A. Burt	600,476	Mar. 8	1554	357	82	1534
Wheelbarrow	M. V. Garver	602,504	Apr. 19	1574	360	83	330
Wheelbarrow	R. A. Kneeland	605,316	June 7	493	110	83	1446
Wheelbarrow	H. C. Stouffer	597,337	Jan. 11	1514	354	82	312
Wheelbarrow-axles. Detachable bush for	H. Houldsworth	596,708	Jan. 4	451	102	82	88
Wheelwright-machine	L. W. Greenleaf	608,452	Aug. 2	504	113 114	84	756
Whiffletree	W. E. Carver	614,220	Nov. 15	1747	402	85	993
Whiffletree	J. W. Hyde	608,987	Aug. 9	1507	356	84	965
Whiffletree	W. Krug	616,117	Dec. 20	1659	388	85	1766
Whiffletree attachment	P. Burgland	603,315	May 3	118	28	83	625
Whiffletree attachment	J. H. Dederick	615,060	Nov. 29	3335	765	85	1322
Whiffletree attachment	T. Scrivener	616,204	Dec. 20	1832	423	85	1801
Whiffletree attachment	C. W. Snyder	610,951	Sept. 20	1450	532	84	1757
Whiffletree attachment	H. H. Stone	597,302	Jan. 11	1447	339	82	297
Whiffletree-center	J. Edgar	601,462	Mar. 29	3279	741	82	1923
Whiffletree-clip	J. Reed	616,804	Dec. 27	2961	690	85	2043
Whiffletree-clip	J. Reed	616,805	Dec. 27	2963	691	85	2044
Whiffletree connection	G. Heon	611,735	Oct. 4	257	62	85	53
Whiffletree-coupling	F. W. Chickering	603,257	May 3	24	6	83	605
Whiffletree-hook	C. O. Bolton	605,381	June 7	623	139	83	1471
Whiffletree-hook	F. E. Lack	602,136	Apr. 12	941	206	83	190
Whiffletree-hook	A. D. Lodge	597,008	Jan. 11	966	229	82	204
Whiffletree-hook	H. Olson	606,357	June 28	2472	574	83	1879
Whiffletree-hook	C. C. Wallace	615,004	Nov. 29	3217	740	85	1301
Whim	A. L. Gooden	600,070	Mar. 1	810	186	82	1373
Whip-lock. Permutation	A. F. Weimer	611,538	Sept. 27	2563	591	84	1985
Whip-socket	O. E. Seymour	608,431	Aug. 2	476	107	84	750
Whip-socket	C. C. Wallace	613,402	Nov. 1	347	80	85	681
Whip-socket and rein-holder	M. T. Howland	598,871	Feb. 8	1357	327	82	878
Whip-stocks. Machine for unwinding binding-ropes from	C. A. Levie	597,614	Jan. 18	1994	464	82	423
Whip-trimming	C. C. Pratt	600,171	Mar. 8	1048	236	82	1439
Whips. Treating rawhide for use in manufactur- ing	C. G. Becker and M. Osborn	608,315	Aug. 2	259	59	84	706
Whist apparatus. Duplicate	G. A. Bisler	616,433	Dec. 20	2263	528	85	1888
Whist apparatus. Duplicate	F. B. Chase and E. P. Redfield	614,837	Nov. 29	2877	661	85	1233
Whist apparatus. Duplicate	J. Omwake	597,122	Jan. 11	1168	274	82	243
Whist board. Duplicate	C. N. Daman	604,188	May 17	1769	398	83	994
Whist. Card-holder for duplicate	W. P. Ordway	610,559	Sept. 13	780	177	84	1604
Whist-table	W. P. Morrissey	598,803	Feb. 8	1245	301	82	856
Whist-table	H. M. Weaver	609,377	Aug. 16	2248	531 532	84	1122
Whist tray. Duplicate	W. S. Coles	609,876	Aug. 30	3149	736	84	1328
Whistle	A. B. Davis	603,555	May 3	575	127	83	712



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Whistle.....	J. L. Hanson.....	604,918	May 31	3090	710	83	1283
Whistle. Fog.....	S. H. Hunter.....	606,668	July 5	59	12	84	14
Whistle-pipe.....	J. Brysch.....	611,028	Sept. 20	1590	364	84	1782
Whistle. Steam.....	F. A. Davey.....	608,955	Aug. 9	1445	342	84	953
Whistle valve. Steam.....	W. Möller.....	616,197	Dec. 20	1821	421	85	1799
Whistles. Means for operating steam.....	W. R. Lyons.....	615,398	Dec. 6	347	83	85	1480
Wick-adjusting device.....	J. C. Miller.....	596,783	Jan. 4	583	135	82	112
Wick-adjusting device. Lamp.....	J. C. Miller.....	613,458	Nov. 1	441	101	85	700
Wick. Candle.....	M. Blatt.....	613,440	Nov. 1	416	85	695	
Wick-lifting device.....	W. A. Penfield.....	605,186	June 7	230	56	83	1394
Wick-raiser.....	W. C. Homan.....	614,471	Nov. 22	2239	513	85	1100
Wick-raiser.....	W. H. Wilder.....	612,886	Oct. 25	2328	554	85	488
Wick-trimming clamp. Lamp.....	W. C. Erion.....	613,130	Oct. 25	2708	640	85	566
Wicker structure.....	J. A. Griffin.....	598,305	Feb. 1	417	98	82	681
Winch.....	R. H. Postlethwaite.....	612,807	Oct. 18	2167	515	85	439
Winch. Power.....	J. W. Pope and W. C. Meyrick.....	614,309	Nov. 15	1914	441	85	1024
Wind-instrument valve.....	J. J. Neumann.....	609,556	Aug. 23	2578	604	84	1203
Wind instruments. Mouthpiece for.....	R. Driscoll.....	612,714	Oct. 18	1992	472	85	405
Wind-motor.....	D. W. Hoover.....	598,479	Feb. 1	697	170	82	735
Wind-motor.....	E. D. Schmucker.....	600,893	Mar. 22	2287	521	82	1707
Wind-motor for self-playing instruments.....	F. W. Hedgeland.....	612,163	Oct. 11	1016	244	85	209
Wind-motors, pumps, &c. Pneumatic governor for.....	C. Edgerton and L. H. Roberts.....	616,456	Dec. 27	2312	539	85	1917
Wind-wheel.....	E. H. Thompson.....	603,119	Apr. 26	2650	602	83	548
Wind-wheel apparatus.....	C. S. Graves.....	612,720	Oct. 18	2000	474	85	407
Winding and hauling engine.....	W. Morgans.....	607,446	July 19	1521	324	84	327
Winding and quilling machine. Weft-thread.....	R. Atherton.....	610,340	Sept. 6	382	82	84	1513
Winding cops or bobbins of yarn. Apparatus for.....	W. J. McCausland.....	613,384	Nov. 1	303	70	85	675
Winding device. Instrument.....	H. H. Wait.....	605,154	June 7	177	44	83	1384
Winding-machine.....	C. A. Cornell and E. S. Robison.....	601,495	Mar. 29	3332	754	82	1934
Winding-machine.....	E. J. Satterwhite.....	609,300	Aug. 16	2128	504	84	1098
Winding machine. Bobbin.....	W. D. Huse.....	602,583	Apr. 19	1711	389	83	353
Winding machine. Cop.....	D. G. Baker.....	599,488	Feb. 22	2488	585	82	1132
Winding machine. Field-spool.....	W. Leist.....	600,620	Aug. 23	2718	634	84	1229
Winding machine. Thread.....	T. Hansen.....	611,627	Oct. 4	57	15	85	14
Winding machine. Yarn.....	J. D. Whyte.....	605,984	June 21	1750	401	83	1722
Winding machinery for thread, yarn, &c.....	B. M. Knox.....	607,692	July 19	2135	449	84	449
Winding mechanism.....	G. L. Brownell.....	614,830	Nov. 29	2866	659	85	1232
Winding mechanism. Thread.....	S. W. Wardwell, Jr.....	598,587	Feb. 8	890	213	82	789
Winding purposes. Self-detaching hook for.....	S. Humble.....	608,123	July 26	2940	630	84	626
Winding, warping, and beaming machine indicator.....	R. Atherton.....	602,251	Apr. 12	1150	252	83	231
Windlass.....	G. Brunelle.....	609,871	Aug. 30	3142	734	84	1326
Windlass.....	C. A. Morrison and J. Moran.....	603,237	Apr. 26	2849	649	83	586
Windlass and connection.....	H. J. Tracy.....	598,166	Feb. 1	155	36.37	82	632
Windlass-clamp device for raising wagon-beds.....	A. W. Jackson.....	598,886	Feb. 8	1382	333	82	883
Windmill.....	L. Bartholomew.....	615,782	Dec. 13	1037	244	85	1628
Windmill.....	A. M. Carlson.....	608,027	July 26	2800	595	84	597
Windmill.....	J. Coates.....	605,079	June 7	18	6	83	1256
Windmill.....	A. J. Corcoran.....	610,735	Sept. 13	1062	244	84	1663
Windmill.....	W. S. Douglass.....	610,322	Sept. 6	349	75	84	1505
Windmill.....	R. M. Dyer and L. W. Noyes.....	608,657	Aug. 9	881	202	84	848
Windmill.....	H. A. French.....	607,430	July 19	1495	318	84	322
Windmill.....	N. Hein.....	603,188	Apr. 26	2764	630	83	570
Windmill.....	S. K. Humphrey.....	603,905	May 10	1208	273	83	851
Windmill.....	R. Leonhart, Jr.....	601,972	Apr. 5	677	143	83	128
Windmill.....	L. W. Noyes.....	609,457	Aug. 23	2409	565	84	1171
Windmill.....	L. W. Noyes.....	614,233	Nov. 15	1791	414	85	1000
Windmill.....	W. S. O'Bryan.....	600,796	Mar. 15	2118	484	82	1662
Windmill.....	H. Soellner.....	607,774	July 19	2268	479	84	475
Windmill.....	R. W. Stewart.....	612,464	Oct. 18	1541	370	85	320
Windmill.....	J. B. Tinsley.....	607,668	July 19	2102	438	84	443
Windmill.....	H. Wichmann.....	607,151	July 12	971	210	84	204
Windmill.....	A. Zwiebel.....	603,806	May 10	1021	227	83	816
Windmill driving mechanism.....	L. W. Noyes.....	616,134	Dec. 20	1700	395	85	1773
Windmill-governor.....	H. S. Gaskill.....	609,340	Aug. 16	2196	519	84	1112
Windmill-governor.....	J. C. F. Schafer.....	601,284	Mar. 29	2975	672	82	1866
Windmill. Horizontal.....	J. A. Weitzel.....	609,378	Aug. 16	2250	532	84	1122
Windmill motion-converting device.....	E. F. Hershaw.....	615,019	Nov. 29	3248	746	85	1306
Windmill-regulator.....	W. P. H. Campbell.....	602,153	Apr. 12	984	216	83	198
Windmill-regulator. Automatic.....	G. S. Long.....	601,152	Mar. 22	2701	621	82	1786
Windmill-sail.....	J. C. P. Sörensen.....	596,553	Jan. 4	161	37	82	33
Windmill shaft-support.....	L. W. Noyes.....	604,780	May 31	2854	652	83	1238
Windmill. Tower.....	M. Keeney.....	614,812	Nov. 22	2835	653	85	1211
Window.....	D. M. Allen.....	598,214	Feb. 1	256	56.57	82	650
Window.....	J. Appell.....	602,712	Apr. 19	1946	442	83	399
Window.....	W. H. Breedlove.....	613,114	Oct. 25	2682	634	85	560
Window.....	S. W. Crane.....	616,223	Dec. 20	1876	433	85	1810
Window.....	R. Flint.....	615,692	Dec. 13	875	202	85	1597
Window.....	O. Frotscher.....	599,230	Feb. 15	1964	466	82	1008
Window.....	O. Frotscher.....	611,031	Sept. 20	1594	366	84	1784
Window.....	L. Guli.....	614,266	Nov. 15	1850	428	85	1011
Window.....	E. Myers.....	616,484	Dec. 27	2371	550	85	1929



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Window	B. F. Richards	602,361	Apr. 12	1332	296 297	83	268
Window	F. Vittner	602,885	Apr. 26	2240	508 509	83	470
Window	W. T. Waterstraat	614,149	Nov. 15	1622	372	85	970
Window. Adjustable and noiseless	C. H. Hannum	612,037	Oct. 11	796	196	85	166
Window-bracket	S. G. Dean	598,860	Feb. 8	1338	324	82	874
Window-bracket. Folding	H. Frahm	608,115	July 26	2926	626	84	622
Window-cleaner	E. Brombacher	600,609	Mar. 15	1803	413 414	82	1602
Window-cleaner	G. J. Capewell	609,787	Aug. 30	2997	701	84	1296
Window-cleaner	H. Case and I. C. Young	608,140	July 26	2968	636	84	631
Window-cleaner	R. H. Dunn	612,896	Oct. 25	2344	558	85	491
Window-cleaner	A. S. Kemp	613,683	Nov. 8	804	185	85	790
Window-cleaner	J. Kirchmer, Jr	606,995	July 5	639	138	84	127
Window-cleaner	A. Mauser	597,067	Jan. 11	1068	251	82	224
Window-cleaner	H. Stewart	616,504	Dec. 27	2417	559	85	1937
Window-cleaner	L. Sussman and A. Hill	610,205	Sept. 6	97	20, 21	84	1459
Window-cleaner's safety device	W. Rosengarten	615,498	Dec. 6	540	123	85	1517
Window-cleaner's safety support	H. K. Whitner	606,400	June 28	2547	590	83	1893
Window-cleaning seat	C. A. Müller and G. Hinman	605,610	June 14	1009	233	83	1565
Window-closer. Automatic	E. Kubasch	605,642	June 14	1075	247	83	1577
Window-fastener	A. A. Stebbins	611,291	Sept. 27	2104	484	84	1900
Window-fastener	W. Wright	601,090	Mar. 22	2600	593	82	1767
Window-fastener. Storm	A. P. Spiller	604,945	May 31	3125	718	83	1291
Window-fixture	T. H. Kenvin	596,887	Jan. 4	746	176	82	146
Window-frame	F. X. Payment and J. C. Hartig	605,335	June 7	522	117	83	1452
Window frame and sash	E. Duval	607,427	July 19	1490	317	84	321
Window frame and sash	N. M. Kittelsen and M. Walker	603,597	May 8	641	143	83	726
Window frame and sash	A. Rasner	615,047	Nov. 29	3306	760	85	1317
Window frame and sash	H. Staib	608,084	July 26	2878	616	84	614
Window frame and sash	G. C. Witt and C. H. Amann	612,221	Oct. 11	1110	266	85	227
Window frame and sash. Metal	E. F. Bertollett	609,984	Aug. 30	3361	780	84	1368
Window-guard	M. C. Newman and L. Z. Marks	610,822	Sept. 13	1230	283	84	1697
Window-guard	J. L. Scharff	607,707	July 19	2166	455	84	455
Window-jack and bundle-carrier. Combined	A. Christianson	612,128	Oct. 11	954	231	85	196
Window lock and operator	A. J. Williams, J. J. Thomas, and M. Richards.	605,569	June 14	926	217	83	1551
Window or door screen. Combination fly and burglar proof	T. H. C. Beall	600,904	Mar. 22	2302	525	82	1709
Window pane or light	O. E. Winger	607,792	July 19	2304	486	84	481
Window raising and locking device	F. Bruno	608,173	Aug. 2	9	3	84	656
Window safety attachment	A. Lefort	612,166	Oct. 11	1021	246	85	210
Window-screen	G. R. Beckwith and W. F. McCollum	609,134	Aug. 16	1810	430 431	84	1035
Window-screen	O. A. Bingham	601,625	Apr. 5	4	1	83	3
Window-screen	E. T. Burrowes	610,257	Sept. 6	210	47	84	1483
Window-screen	E. T. Burrowes	610,383	Sept. 6	472	103	84	1529
Window-screen	E. T. Burrowes	610,384	Sept. 6	474	103	84	1530
Window-screen	E. T. Burrowes	610,385	Sept. 6	475	104	84	1530
Window-screen	W. H. Casselberry	602,553	Apr. 19	1661	377	83	345
Window-screen	A. L. Dillenbeck	610,437	Sept. 6	556	123	84	1545
Window-screen	L. A. Field	611,113	Sept. 20	1756	402	84	1814
Window-screen	M. Hauser	600,870	Mar. 22	2245	511	82	1699
Window-screen	B. J. and M. Kolb	604,620	May 24	2565	585	83	1164
Window-screen	E. E. Monroe	611,924	Oct. 4	573	139	85	113
Window-screen	J. H. Onstad	601,715	Apr. 5	180	35	83	36
Window-screen	E. Speaker	604,799	May 31	2885	659	83	1244
Window-screen	R. M. Spencer	614,511	Nov. 22	2302	527	85	1110
Window-screen. Adjustable	J. E. Symes	599,664	Feb. 22	2821	656	82	1198
Window-screen fastener	J. Fries	609,197	Aug. 16	1918	457	84	1055
Window-screen. Sliding adjustable	R. Webb and E. E. Schoening	597,627	Jan. 18	2012	469	82	426
Window-screens, storm-sashes, &c. Attachment for	J. T. Ziskovsky	609,490	Aug. 23	2478	579	84	1184
Window-seat	J. Gosling	608,366	Aug. 2	351	77	84	725
Window. Slidable hinged	W. McCall	614,212	Nov. 15	1733	397 398	85	991
Window-stile pockets. Machine for cutting	F. V. Phillips	616,352	Dec. 20	2116	493	85	1858
Window-stile pockets. Machine for cutting	F. V. Phillips	616,353	Dec. 20	2120	494	85	1859
Window structure	T. H. Schmitz	602,245	Apr. 12	1138	250	83	229
Window structure	T. H. Schmitz	604,868	May 31	3003	689 690	83	1266
Window ventilating attachment	K. C. Sanborn	606,088	June 21	1955	449	83	1759
Window-ventilator	F. Burger and H. M. Williams	613,354	Nov. 1	246	55	85	665
Window-ventilator	M. H. Hartzell	597,145	Jan. 11	1204	282	82	250
Window-ventilator	W. L. and E. G. Johnson	604,618	May 24	2562	585	83	1164
Window-ventilator	R. M. Pancoast	614,750	Nov. 22	2728	622 623	85	1190
Window-washer	P. Sweeney	603,414	May 3	297	66	83	657
Window-washer	S. Urmston	603,581	May 3	609	136	83	719
Window washing and cleaning device	G. W. Brown	614,696	Nov. 22	2638	600	85	1171
Windows. Adjustable guard-railing for	E. Schwaabe	597,825	Jan. 25	2364	552	82	509
Windows or ventilators. Apparatus for opening, closing, and fastening	W. McLaren	613,171	Oct. 25	2770	653	85	578
Windows. Weatherproof fitting for	W. Nicol	601,081	Mar. 22	2591	591	82	1765
Wine. Apparatus for removing saccharin or other impurities from	J. T. Bennett	604,927	May 31	3102	713	83	1286
Wine-press. Continuous	C. K. Kirby	603,880	May 10	1164	263	83	843
Wines in casks. Means for preserving	D. Ciani	597,955	Jan. 25	2585	604	82	551
Wines. Manufacture of malt-	A. Munsche	612,746	Oct. 18	2047		85	415
Winning mechanism. Coal-	F. H. Heise	611,810	Oct. 4	377	91	85	75
Wire-and-slat-weaving machine	W. C. Pratt	600,269	Mar. 8	1214	276	82	1470
Wire. Apparatus for electrically coating	W. S. Rawson	611,148	Sept. 20	1819	418 419	84	1827
Wire-cloth. Galvanized or metallic-coated	G. C. Reese	600,250	Mar. 8	1174	267	82	1463
Wire-cloth holder and measurer	D. W. Brooks and W. J. Van Dyke	611,051	Sept. 20	1630	372	84	1790



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Wire-coil machine	J. H. Templin	608,805	Aug. 9	1144	255 266	84	898
Wire-coiling machine	J. E. Criggal	609,011	Aug. 16	1567	373	84	992
Wire-coiling machine	W. H. Jones	600,790	Mar. 15	2107	482	82	1660
Wire-cutter, pocket-knife, and corkscrew. Combined	N. A. and A. Dahlquist	614,537	Nov. 22	2337	535	85	1117
Wire drawing and straining clutch	J. S. Hicks	601,207	Mar. 22	2806	641	82	1806
Wire-drawing machine	G. B. Lamb	604,769	May 31	2835	648 649	83	1233
Wire-drawing mill	K. A. Nestmann and L. Herzenberg	614,126	Nov. 15	1586	363 324 325	85	963
Wire fabric. Apparatus for weaving coiled-	C. O. White and M. B. Lloyd	605,831	June 14	1421	326 327 328	83	1642
Wire-fabric-machine tension and feed mechanism.	G. R. Lamb	606,424	June 28	2601	599	83	1905
Wire fabric. Woven-	A. H. Gardner	599,173	Feb. 15	1880	445	82	992
Wire-fastener	E. L. Cowgill	611,105	Sept. 20	1734	398	84	1811
Wire-fastener	W. F. Schroeder	616,498	Dec. 27	2407	558	85	1936
Wire for paper-making machines. Making-	J. C. Bell	600,352	Mar. 8	1340	307	82	1495
Wire-gate tightener	W. C. and E. A. Bennett	598,494	Feb. 8	726	175	82	757
Wire-holder	F. Canfield	601,412	Mar. 29	3196	721	82	1907
Wire. Loom for weaving	D. S. Birrell	611,602	Oct. 4	12	3, 4	85	4
Wire machine. Barbed-	B. M. Miller	608,471	Aug. 2	537	120 121	84	762
Wire. Machine for making check-row	R. Faries	603,134	Apr. 26	2679	608 609	83	555
Wire. Mold for shaping coiled	W. K. Bassford, Jr	616,518	Dec. 27	2440	564	85	1942
Wire netting or cloth holder	F. E. Willits	614,196	Nov. 15	1696	389	85	984
Wire or other purposes. Machine for stretching	C. W. Selvidge	606,092	June 21	1959	450	83	1760
Wire-picket-twisting device	J. H. Stauffer	605,930	June 21	1639	376	83	1702
Wire rack	C. Tompkins	614,778	Nov. 22	2773	633	85	1199
Wire-reel	J. B. Bender	613,553	Nov. 1	603	139	85	731
Wire-reel	V. E. Edwards and R. L. Morgan	614,203	Nov. 15	1709	392	85	987
Wire-reel	E. L. Shotwell and J. Brims	603,796	May 10	998	223	83	811
Wire reel. Barbed-	E. I. Olinger	599,660	Feb. 22	2815	654	82	1197
Wire-reel frame	H. W. Woods	613,951	Nov. 8	1281	291	85	881
Wire. Respooling-	J. E. Wright	610,730	Sept. 13	1057	242	84	1662
Wire rolling or unrolling machine. Barbed-	J. Doerr	601,557	Mar. 29	3432	779	82	1956
Wire rope or hawser	R. A. Hammond	608,673	Aug. 9	911	209	84	855
Wire-shears and parallel-jaw pliers. Combined	P. Broadbooks	611,102	Sept. 20	1729	396 397	84	1810
Wire-splice	O. H. Sawdy	598,275	Feb. 1	364	85	82	670
Wire-splicing tool	H. L. Maitland	608,467	Aug. 2	530	118	84	761
Wire-stay fastener	J. G. Thomas	602,783	Apr. 19	2055	466	83	420
Wire stay-locks. Device for forming	D. C. Addicks	598,131	Feb. 1	98	23	82	621
Wire-stay-weaving device	C. A. Willmarth	599,413	Feb. 22	2329	550	82	1101
Wire straightening and cutting machine	W. I. Winne	597,211	Jan. 11	1313	306	82	270
Wire straightening and twisting machine	J. Atkins	603,868	May 10	1143	257	83	839
Wire-stretcher	C. L. Borst	605,848	June 21	1483	339	83	1671
Wire-stretcher	F. H. Carter	601,239	Mar. 29	2876	655	82	1846
Wire-stretcher	L. Clark	604,302	May 17	1973	442	83	1033
Wire-stretcher	E. Conkling	597,102	Jan. 11	1140	269	82	238
Wire-stretcher	W. Cooper, Sr	614,420	Nov. 15	2141	493	85	1067
Wire-stretcher	Z. A. Curtis	612,661	Oct. 18	1905	451	85	389
Wire-stretcher	W. D. Diller	596,987	Jan. 11	931	220	82	198
Wire-stretcher	G. M. Doyle	606,523	June 28	2752	636	83	1936
Wire-stretcher	T. M. Guey	604,148	May 17	1691	380	83	978
Wire-stretcher	J. H. Heisey	606,760	July 5	233	50	84	47
Wire-stretcher	D. H. Jones	599,610	Feb. 22	2711	634	82	1175
Wire-stretcher	W. H. Jones	607,750	July 19	2227	471	84	467
Wire-stretcher	A. L. Kitselman	607,751	July 19	2229	471	84	468
Wire-stretcher	J. H. Koepfel	596,888	Jan. 4	746	176	82	146
Wire-stretcher	E. F. and J. Manning	605,496	June 14	807	187	83	1528
Wire-stretcher	A. McInturf and H. J. Stewart	611,268	Sept. 27	2055	473 474	84	1890
Wire-stretcher	C. A. Nelson	598,641	Feb. 8	984	237	82	807
Wire-stretcher	S. Shown	614,581	Nov. 22	2415	552	85	1131
Wire-stretcher	G. W. Thorp and A. Leddy	611,658	Oct. 4	114	28	85	25
Wire-stretcher	W. F. Tramm	614,519	Nov. 22	2312	530	85	1111
Wire-stretcher	F. Volk, Jr	611,297	Sept. 27	2113	487	84	1902
Wire-stretcher	P. Warne	608,536	Aug. 2	617	146	84	783
Wire-stretcher	H. Zimmerman	616,176	Dec. 20	1791	414	85	1793
Wire stretcher and cutter	S. A. D. Clark	610,881	Sept. 13	1331	305	84	1719
Wire-stretcher and lifting-jack. Combined	J. Weathers	599,465	Feb. 22	2443	575	82	1123
Wire stretcher and mender	J. Harpman	600,312	Mar. 8	1273	290	82	1482
Wire stretcher and splicer	E. Taylor	610,160	Aug. 30	2633	845	84	1425
Wire-stretching device	F. Foster	597,059	Jan. 11	1056	248	82	222
Wire-stretching machine	J. N. Dozier	609,086	Aug. 16	1704	406	84	1017
Wire-stretching tongs	Z. Cramer	605,081	June 7	23	7	83	1357
Wire-stretching tool	J. L. Hilton	598,931	Feb. 15	1467	351	82	915
Wire-stripping tool	L. A. Sell	608,919	Aug. 9	1369	324	84	940
Wire-swaging machine	W. G. Allen	597,756	Jan. 25	2237	520 521	82	485
Wire-swaging machine	L. Cook	604,604	May 24	2541	579 580	83	1159
Wire-threading machine	O. Ashton	603,394	May 3	258	57, 58	83	649
Wire-tightener	L. Bickel	609,405	Aug. 23	2311	545	84	1153
Wire-tightener	W. A. Boynton	613,792	Nov. 8	1018	232	85	831
Wire-tightener	D. Brown	606,833	July 5	375	80	84	75
Wire-tightener	D. Bunnell and A. A. Brower	604,578	May 24	2502	569	83	1151
Wire-tightener	H. Mack	612,115	Oct. 11	935	226	85	193
Wire-tightener	S. A. Rhodes	598,746	Feb. 8	1163	279	82	840
Wire-tightener and staple-puller. Combined	M. W. Gunn	616,787	Dec. 27	2932	682	85	2037
Wire tightening and holding device	J. W. Martin	614,737	Nov. 22	2707	617	85	1185
Wire-tightening device	J. B. Vail	606,178	June 21	2109	485	83	1788



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Wire-twisting tool .....	G. E. Ruther .....	608,225	Aug. 2	101	26	84	675
Wire-weaving device .....	L. T. Murrah .....	597,120	Jan. 11	1166	274	82	243
Wire-weaving machine .....	C. E. Wintrode .....	598,045	Jan. 25	2730	637 638	82	579
Wire-weaving machines. Warp-feed equalizer for .....	C. M. Lamb and J. W. Page .....	606,464	June 28	2664	613 614	83	1917
Wire-winding machine .....	E. S. Morkre .....	611,817	Oct. 4	392	94	85	78
Wire with asbestos. Process of and apparatus for covering .....	E. Albasini .....	614,819	Nov. 29	2849	656	85	1229
Wireworking-machines. Automatic stop mechanism for .....	H. T. Jenkins .....	612,000	Oct. 4	711	171	85	139
Wire-working tool .....	M. Cahill .....	596,572	Jan. 4	197	44	82	39
Wood and fiber. Composition for impregnating .....	E. Klein .....	605,060	May 31	3317		83	1327
Wood and preparing same. Preserved .....	M. Bachert and D. W. O'Neil .....	602,713	Apr. 19	1947	442 443	83	399
Wood. Apparatus for stripping off bark of .....	L. Wertheim .....	615,771	Dec. 13	1017	237	85	1625
Wood-barking machine .....	J. H. Baker, G. F. Shevlin, and F. H. Baker .....	612,227	Oct. 11	1120	268	85	229
Wood-bending appliance .....	H. F. J. Schmidt .....	613,725	Nov. 8	905	207	85	809
Wood-bending device .....	F. M. Meyer .....	609,691	Aug. 23	2847	666	84	1255
Wood-bending machine .....	W. J. Woodward and H. E. Brett .....	596,645	Jan. 4	327	71, 72	82	64
Wood-bending machine .....	N. B. Zuccarello .....	597,452	Jan. 18	1734	401	82	370
Wood block for paving .....	J. Nightingale .....	606,574	June 28	2861	659	83	1956
Wood carving and molding machinery .....	J. Unwin .....	612,882	Oct. 25	2322	553	85	487
Wood-cleaning compound .....	C. E. Postlethwaite .....	602,519	Apr. 19	1605		83	335
Wood, &c. Composition for coloring and preserving .....	M. Arnn .....	601,767	Apr. 5	278		83	54
Wood drying and hardening apparatus .....	G. F. Lebioda .....	608,780	Aug. 9	1087	250	84	887
Wood dyeing and impregnating apparatus .....	G. F. Lebioda .....	609,442	Aug. 23	2370	559	84	1164
Wood-filler .....	P. Phillips .....	614,024	Nov. 8	1394		85	905
Wood-finishing device .....	C. Birely .....	608,171	Aug. 2	7	2	84	656
Wood for fuel. Machine for preparing .....	W. S. Munday .....	609,114	Aug. 16	1782	424	84	1029
Wood in imitation of marquetry. Decorating .....	G. H. Allen .....	606,953	July 5	548	121	84	109
Wood into fibers suitable for use in the arts. Converting .....	A. Mitscherlich .....	606,017	June 21	1813	418	83	1732
Wood. Machine for cutting plates from .....	A. H. Hall .....	598,085	Feb. 1	26	7	82	608
Wood molding and sawing machine .....	F. M. Kennedy .....	602,507	Apr. 19	1578	361 362	83	330
Wood. Plastic ornamentation of .....	A. H. Durbur .....	612,641	Oct. 18	1868	442	85	381
Wood-preserving composition .....	H. H. Blodgett .....	606,702	July 5	121		84	26
Wood-scraper .....	J. H. Sayler .....	612,677	Oct. 18	1927	456	85	393
Wood, &c. Shaping-machine for .....	E. G. A. Schenson .....	598,309	Feb. 1	423	100 101	82	682
Wood-shaping machine finishing-tool .....	A. M. Bagby .....	602,612	Apr. 19	1759	401	83	363
Wooden pipe .....	W. J. Woodward .....	607,153	July 12	976	211	84	205
Wooden-pipe-banding machine .....	W. J. Woodward .....	603,392	May 3	254	56	83	648
Wooden structures. Building circular .....	R. R. Gubbins .....	603,138	Apr. 26	2689	610	83	556
Woodworking-machine .....	D. P. Cooper .....	603,261	May 3	30	8	83	606
Woodworking-machine .....	C. F. Overmyer .....	608,072	July 26	2862	612	84	610
Woodworking machinery .....	J. B. Chace .....	603,037	Apr. 26	2502	567 568	83	519
Wool-drier .....	J. W. Spencer .....	605,025	May 31	3256	748	83	1316
Wool-drying apparatus .....	J. Fielden .....	601,317	Mar. 29	3040	684 685	82	1878
Wool-drying apparatus .....	G. Stone .....	608,385	Aug. 2	386	85, 86	84	732
Wool-drying machine .....	F. G. Sargent .....	615,913	Dec. 13	1247	292	85	1668
Wool. Extracting fatty matter from .....	C. Gruene .....	613,267	Nov. 1	74	17	85	630
Wool. Gill-box for preparing .....	J. Smith and W. Holdsworth .....	610,774	Sept. 13	1143	262 263	84	1679
Wool, hair, &c. Machine for shearing, cutting, or clipping .....	F. Burgon .....	616,448	Dec. 27	2287	533	85	1912
Wool, &c. Machine for drying .....	C. W. Schwartz, Jr. .....	600,805	Mar. 15	2133	487	82	1664
Wool, &c. Machine for separating .....	A. D. Hubert .....	613,571	Nov. 1	636	147	85	737
Wool-washing machine .....	G. Katzenstein .....	611,432	Sept. 27	2383	547	84	1950
Wool-washing-machine ducker .....	F. G. Sargent .....	605,653	June 14	1096	252	83	1581
Work-bench .....	H. Flegel .....	607,841	July 26	2438	518	84	525
Work-box .....	M. Belville and W. Oltmer .....	616,763	Dec. 27	2888	669	85	2028
Work-box .....	D. Richard .....	611,333	Sept. 27	2175	503	84	1913
Work-holder .....	C. D. Eames .....	603,558	May 3	581	129	83	713
Work-holder .....	M. E. Hargis .....	614,387	Nov. 15	2069	477	85	1054
Worm and worm-gear .....	J. M. Rauhoff .....	597,154	Jan. 11	1219	286	82	253
Worm-cutting machine .....	J. Reece .....	607,626	July 19	2023	419 420	84	429
Woven fabric .....	J. C. Davis .....	616,774	Dec. 27	2906	675	85	2031
Woven fabric .....	A. Heald .....	605,783	June 14	1333	305	83	1626
Woven fabric .....	R. H. Hey .....	610,051	Aug. 30	3466	804	84	1389
Woven fabric for tubular articles .....	W. B. Fittz .....	597,672	Jan. 18	2092	490	82	441
Woven fabrics. Apparatus for indicating number of weft-shots in .....	G. Kocherhaus .....	611,413	Sept. 27	2342	540	84	1943
Woven fabrics. Device for separating and removing threads from .....	A. G. Leonard .....	598,732	Feb. 8	1144	275	82	837
Wrapper .....	F. H. Gregory .....	614,807	Nov. 22	2828	651	85	1209
Wrapper-covering .....	E. H. Cummins .....	606,332	June 28	2427	561	83	1871
Wrapper-cutter .....	N. Du Brul .....	599,228	Feb. 15	1959	464	82	1007
Wrapper for cuffs, &c. .....	D. I. Petts .....	607,572	July 19	1925	399	84	410
Wrapper. Pamphlet .....	W. H. Young .....	596,563	Jan. 4	178	40	82	36
Wrapping-machine .....	L. C. Crowell .....	603,262	May 3	32	9	83	606
Wrapping-machine .....	L. C. Crowell .....	603,585	May 3	619	138	83	721
Wrapping-machine .....	L. C. Crowell .....	603,602	May 3	650	145 146	83	728
Wrapping-machine .....	L. C. Crowell .....	610,344	Sept. 6	389	83, 84	84	1514
Wrapping-machine .....	L. C. Crowell .....	616,291	Dec. 20	2003	465 466	85	1836
Wrapping-machine .....	J. F. Hargraves .....	615,650	Dec. 6	798	185 186	85	1570
Wrapping soap, caramels, &c. Machine for .....	J. H. Felmlee .....	606,919	July 5	504	111	84	100



Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wrench:							
See Adjustable wrench.	Nut and pipe wrench.						
Bit-stock wrench.	Pipe-wrench.						
Buggy-wrench.	Pipe or nut wrench.						
Buggy or wagon wrench.	Railway nut-wrench.						
Carriage-wrench.	Ratchet-wrench.						
Combination-wrench.	Ratchet-wheel wrench.						
Jaw-wrench.	Screw-wrench.						
Monkey-wrench.	Tap-wrench.						
Nut-wrench.	Tire-bolt wrench.						
	Vehicle-wrench.						
	Wheel-wrench.						
Wrench	F. Aaron and J. R. G. Huffman	603,494	May 3	467	103	83	690
Wrench	A. Assorati	608,358	Aug. 2	342	75	84	724
Wrench	J. H. Atkinson	609,324	Aug. 16	2169	512	84	1107
Wrench	F. W. Beckwith	613,230	Nov. 1	8	2	85	618
Wrench	C. E. Billings	599,379	Feb. 22	2264	536	82	1088
Wrench	J. Brown	606,270	June 28	2306	534	83	1847
Wrench	D. A. Cheney	611,771	Oct. 4	307	73	85	63
Wrench	J. M. Cochran	597,762	Jan. 25	2247	523	82	487
Wrench	L. Coes	610,259	Sept. 6	213	48	84	1483
Wrench	F. O. Collings	597,101	Jan. 11	1138	269	82	238
Wrench	I. A. Cunningham	598,304	Feb. 1	416	98	82	681
Wrench	M. H. Curry	603,178	Apr. 26	2743	624	83	567
Wrench	B. M. Davidson	597,104	Jan. 11	1143	270	82	239
Wrench	D. Dickey	614,610	Nov. 22	2480	566	85	1141
Wrench	T. Dinkelberg	606,381	June 28	2514	584	83	1887
Wrench	J. P. Doherty	612,712	Oct. 18	1990	471	85	405
Wrench	J. K. Downie	604,375	May 24	2124	477	83	1082
Wrench	C. C. English and W. C. Stranahan	599,895	Mar. 1	423	93	82	1293
Wrench	O. Evans	598,287	Feb. 1	392	91	82	676
Wrench	L. W. Everhart	609,762	Aug. 23	2947	689	84	1274
Wrench	W. C. Flint	609,388	Aug. 16	2278	539	84	1128
Wrench	T. Forstner	601,772	Apr. 5	289	57	83	55
Wrench	A. B. Frack	601,851	Apr. 5	454	91	83	84
Wrench	L. Frederick and G. H. Dugan	608,767	Aug. 9	1066	245	84	884
Wrench	E. P. Gaines	598,504	Feb. 8	746	180	82	761
Wrench	M. C. Gay	616,414	Dec. 20	2226	519	85	1879
Wrench	S. A. Haines	609,670	Aug. 23	2808	655	84	1247
Wrench	H. J. Hancock	604,391	May 24	2144	482	83	1086
Wrench	H. C. Hart	609,146	Aug. 16	1832	436	84	1039
Wrench	J. S. Haye and F. M. Humphrey	597,611	Jan. 18	1990	463	82	422
Wrench	G. W. Henning	604,753	May 31	2813	643	83	1229
Wrench	E. Henwood	603,530	May 3	542	119	83	705
Wrench	L. Holford	598,783	Feb. 8	1218	296	82	851
Wrench	A. Hullinger	597,081	Jan. 11	1101	260	82	231
Wrench	W. A. Humphrey and O. D. Kahl	599,334	Feb. 22	2171	516	82	1070
Wrench	C. Jacoby, Sr	613,573	Nov. 1	637	148	85	737
Wrench	E. J. Johnson	599,844	Mar. 1	319	72	82	1273
Wrench	J. P. Johnson	601,146	Mar. 22	2692	618	82	1784
Wrench	D. C. Johnston	612,589	Oct. 18	1755	415	85	360
Wrench	J. L. Jones	608,866	Aug. 9	1278	298	84	921
Wrench	A. P. Joy	598,319	Feb. 1	442	105	82	685
Wrench	J. J. Kennelly	613,153	Oct. 25	2742	646	85	572
Wrench	W. King	616,540	Dec. 27	2475	573	85	1948
Wrench	H. Lanius	608,876	Aug. 9	1295	302	84	925
Wrench	A. A. Larson	597,990	Jan. 25	2649	619	82	564
Wrench	W. F. Lawler	603,194	Apr. 26	2775	632	83	572
Wrench	A. A. and P. E. Lowe	599,396	Feb. 22	2301	543	82	1096
Wrench	C. S. Metcalfe	611,499	Sept. 27	2498	576	84	1973
Wrench	W. R. Moore	610,553	Sept. 13	770	175	84	1602
Wrench	W. F. Murphy	613,213	Oct. 25	2867	676	85	596
Wrench	J. G. Newell	601,672	Apr. 5	84	17	83	17
Wrench	F. Olsen	603,572	May 3	599	133	83	717
Wrench	R. Parrish	608,477	Aug. 2	551	123	84	764
Wrench	W. E. Pugsley	596,825	Jan. 4	652	150	82	126
Wrench	J. Pusey	597,741	Jan. 25	2207	515	82	480
Wrench	S. D. Robinson and B. M. Doud	597,743	Jan. 25	2213	515	82	481
Wrench	W. H. Robinson and E. J. Lawless	605,746	June 14	1245	288	83	1609
Wrench	C. M. Ryder	616,019	Dec. 13	1456	341	85	1710
Wrench	D. A. Seamans	614,993	Nov. 29	3203	737	85	1299
Wrench	H. M. Smith	603,290	May 3	78	20	83	616
Wrench	T. Spriggs	606,690	July 5	97	21	84	21
Wrench	J. F. Strahle	615,643	Dec. 6	790	183	85	1568
Wrench	G. R. Van Schoick	606,317	June 28	2391	553	83	1864
Wrench	W. J. Walker	608,735	Aug. 9	1016	233	84	874
Wrench	M. Weiss	603,305	May 3	103	25	83	621
Wrench	G. H. Wells and H. A. Gleason	608,942	Aug. 9	1425	336	84	949
Wrench	O. Wigtill	608,628	Aug. 9	824	191	84	836
Wrench	J. F. Woodford	614,156	Nov. 15	1632	375	85	972
Wrench	J. N. Young	607,320	July 12	1284	274	84	265
Wrench and nippers. Combined	J. Rosendahl	597,592	Jan. 18	1960	456	82	416
Wrench. Double-grip sliding-jaw	J. J. A. Miller	616,579	Dec. 27	2536	587	85	1958
Wrench-jack	S. J. Johnston	601,147	Mar. 22	2693	619	82	1785
Wrench-jack	S. J. Johnston	607,439	July 19	1508	321	84	324
Wrench or holding device	F. Barrell	598,591	Feb. 8	896	215	82	791
Wrenches. Making	L. and J. H. Coes	613,245	Nov. 1	35	8	85	624
Wringer:							
See Clothes-wringer.	Mop-wringer.						
Wringer	C. A. Kohl	604,765	May 31	2830	647	83	1232
Wringer	C. P. Searles	615,312	Dec. 6	157	41	85	1444
Wringer attachment for washtubs	S. Walter	614,678	Nov. 22	2606	591	85	1164
Wringer attachment. Tub	W. Gender	615,841	Dec. 13	1131	264	85	1646
Wringer-holding device	J. Farrell and P. J. Hoar	608,447	Aug. 2	496	112	84	754



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wringing and mangling machine.....	W. McLean.....	611,075	Sept. 20	1666	382	84	1797
Wringing machine. Clothes.....	J. Heselwood.....	605,290	June 7	447	99	83	1437
Wristlet.....	C. Heagle and J. Topp.....	615,389	Dec. 6	328	77	85	1476
Writing apparatus. Duplex.....	H. E. Holmes.....	603,275	May 3	55	14	83	611
Writing in duplicate. Device for.....	S. D. Hearing.....	612,339	Oct. 11	1325	319	85	265
Writing machine. Check.....	H. Clarke.....	607,833	July 26	2415	513 514	84	522
X-ray apparatus.....	H. Green.....	607,233	July 12	1128	241 242	84	234
X-rays. Coin-freed apparatus for generating.....	M. Vidal.....	616,375	Dec. 20	2159	503	85	1867
Yarn-drying apparatus.....	W. Whiteley.....	610,781	Sept. 13	1152	264 265	84	1681
Yarn dyeing, sizing, and washing machine.....	W. Woodcock, J. Longthorpe, and W. Dargue.....	611,308	Sept. 27	2131	492 493	84	1905
Yarn from fibrous materials. Machinery for man- ufacturing.....	W. H. Drury.....	611,109	Sept. 20	1745	400 401	84	1812
Yarn from fibrous materials. Manufacturing.....	W. H. Drury.....	611,108	Sept. 20	1737	399 400	84	1811
Yarn guide, tension, and clearer.....	P. B. Sanford.....	605,918	June 21	1620	372	83	1699
Yarn-mercerizing machine.....	C. L. Weichelt, W. S. Grady, and A. Jones.....	607,150	July 12	970	210	84	204
Yarn sizing and dressing apparatus. Hank.....	B. Cohnen.....	603,622	May 10	700	156 157	83	753
Yarn-skein.....	O. Hoffmann.....	610,401	Sept. 6	502	109 110	84	1535
Yarn while mercerizing. Apparatus for stretching.....	J. R. Ecob.....	608,033	July 26	2809	597	84	599
Yeast. Manufacture of.....	H. Jansen.....	613,149	Oct. 25	2734	645	85	571
Yoke attachment. Neck.....	S. Pearson.....	609,699	Aug. 23	2857	668	84	1256
Yoke. Breechy-cattle.....	J. Dudek.....	614,445	Nov. 22	2185	501	85	1089
Yoke. Cattle.....	R. S. Kirk.....	600,950	Mar. 22	2376	540	82	1724
Yoke center. Neck.....	S. Pearson.....	616,065	Dec. 13	1543	360 361	85	1727
Yoke center. Neck.....	H. T. Richmond.....	597,657	Jan. 18	2067	484	82	436
Yoke connection. Neck.....	G. Bryanton.....	611,444	Sept. 27	2398	550	84	1952
Yoke coupling. Neck.....	L. O. Snell.....	598,029	Jan. 25	2710	632	82	575
Yoke. Neck.....	H. B. Daugherty.....	613,796	Nov. 8	1033	234	85	833
Yoke. Neck.....	W. E. Haight.....	603,562	May 3	586	130	83	714
Yoke. Neck.....	W. Johnston.....	599,391	Feb. 22	2292	542	82	1094
Yoke. Neck.....	T. J. Jones.....	613,374	Nov. 1	280	64	85	671
Yoke. Neck.....	G. A. Landon.....	605,490	June 14	800	184	83	1527
Yoke. Neck.....	S. J. McDonald.....	608,474	Aug. 2	546	122	84	763
Zinc and copper ores. Treatment of.....	W. J. Koehler.....	611,917	Oct. 4	560	136	85	111
Zinc. Apparatus for applying grease to sheet.....	H. Hegeler.....	608,675	Aug. 9	913	210	84	856
Zinc. Apparatus for electrolytically producing.....	C. Hoepfner.....	598,180	Feb. 1	189	44	82	638
Zinc for recovering zinc as oxids. Treating solu- tions or ores containing.....	E. A. Ashcroft.....	602,295	Apr. 12	1232	-----	83	247







# ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
Abdominal supporter.....	J. G. Morley.....	29,163	Aug. 2	84	803
Advertising-card.....	C. G. Hodge.....	29,642	Nov. 8	85	927
Advertising-column.....	A. and M. Gerstendorfer.....	28,617	May 10	83	909
Advertising-column.....	A. and M. Gerstendorfer.....	28,618	May 10	83	909
Advertising-stand.....	W. M. Updegrave.....	28,855	June 14	83	1650
Album-cover.....	G. Schwab.....	29,647	Nov. 8	85	928
Album-cover.....	G. Schwab.....	29,667	Nov. 15	85	1070
Album-cover. Ornamental.....	W. H. Isbister.....	29,258	Aug. 23	84	1275
Ambulance-body.....	F. G. Davis.....	29,392	Sept. 20	84	1863
Angle-iron.....	J. H. Baker.....	28,865	June 14	83	1652
Antirattler.....	F. P. Johnson.....	28,849	June 14	83	1649
Antirattler plate.....	C. T. Redfield.....	28,850	June 14	83	1649
Antirattling plate.....	C. T. Redfield.....	28,983	July 5	84	135
Atomizer.....	A. Loring.....	28,976	July 5	84	134
Atomizer-body.....	J. A. Everitt.....	28,643	May 17	83	1058
Atomizers, &c. Tip for.....	C. W. Meinecke.....	28,975	July 5	84	134
Awning-curtain cloth.....	E. K. Thomas.....	28,305	Feb. 15	82	1044
Ax or hatchet.....	J. P. Kelly.....	29,680	Nov. 15	85	1072
Badge.....	J. T. Bailey.....	28,256	Feb. 8	82	885
Badge.....	W. H. Becker.....	29,483	Oct. 18	85	441
Badge.....	I. Bedichimer.....	29,811	Dec. 20	85	1891
Badge.....	J. Bratsing.....	28,883	June 21	83	1790
Badge.....	J. S. Brennan.....	29,484	Oct. 18	85	441
Badge.....	J. J. Cluin.....	28,884	June 21	83	1790
Badge.....	G. Corbett.....	28,677	May 24	83	1195
Badge.....	G. H. Fensom.....	29,013	July 12	84	299
Badge.....	W. L. French.....	28,779	June 7	83	1498
Badge.....	W. E. Haynes.....	28,517	Apr. 26	83	590
Badge.....	J. H. L. Holcomb.....	29,054	July 19	84	498
Badge.....	E. E. Kerns.....	29,116	Aug. 2	84	795
Badge.....	B. J. Mackoy.....	29,117	Aug. 2	84	795
Badge.....	A. A. McRae.....	29,754	Dec. 6	85	1576
Badge.....	F. E. Merriman.....	28,780	June 7	83	1498
Badge.....	L. P. C. Packwood.....	29,529	Oct. 25	85	602
Badge.....	E. Ringold.....	29,118	Aug. 2	84	795
Badge.....	K. H. Shaffer.....	29,276	Aug. 30	84	1427
Badge.....	C. D. Sprague.....	28,781	June 7	83	1498
Badge.....	H. P. Stone.....	29,863	Dec. 27	85	2077
Badge.....	S. E. Theus.....	29,611	Nov. 8	85	921
Badge.....	R. F. Thompson.....	29,212	Aug. 16	84	1130
Badge.....	G. C. Van Roden.....	28,165	Jan. 18	82	450
Badge.....	D. M. J. Wall.....	29,432	Oct. 4	85	141
Badge.....	B. S. Whitehead.....	29,783	Dec. 13	85	1728
Badge.....	B. S. Whitehead.....	29,784	Dec. 13	85	1728
Badge head-piece.....	A. J. Keil.....	29,610	Nov. 8	85	921
Badge or button.....	J. H. H. McNamee.....	28,502	Apr. 26	83	588
Badge or similar article.....	A. C. Clas.....	28,625	May 17	83	1056
Badge or similar article.....	F. J. Conner.....	28,523	May 3	83	736
Badge or similar article.....	E. Grewey.....	28,339	Mar. 8	82	1550
Badge or similar article.....	W. Heeren.....	29,864	Dec. 27	85	2077
Badge or similar article.....	A. A. McRae.....	29,014	July 12	84	299
Bag.....	J. Arkell.....	29,594	Nov. 1	85	769
Bag.....	J. Arkell.....	29,595	Nov. 1	85	769
Bag or sack holder.....	J. C. Etters.....	29,676	Nov. 15	85	1071
Bag-tie.....	W. M. Clark.....	29,853	Dec. 20	85	1897
Bags, &c. Tie for.....	E. L. Schanck.....	29,380	Sept. 20	84	1862
Bagatelle-board.....	M. Redgrave.....	29,047	July 12	84	305
Balance-staff.....	D. H. Church.....	29,820	Dec. 20	85	1892
Ball-retainer.....	H. B. Keiper.....	28,868	June 14	83	1653
Bank. Savings-.....	R. E. Brownell.....	29,133	Aug. 2	84	798
Bar.....	C. E. Chamberlin.....	29,345	Sept. 13	84	1723
Barrel-closure ring.....	E. Blount.....	28,746	May 31	83	1335
Basin. Catch.....	J. J. Lonergan.....	29,706	Nov. 22	85	1215
Basin-clamp.....	W. E. Byrnes.....	29,232	Aug. 16	84	1133
Basin-clamp.....	B. Dettelbach.....	28,652	May 17	83	1059
Basin. Wash.....	A. P. Creque.....	28,119	Jan. 4	82	176
Bath ring. Shower.....	L. Cline.....	29,901	Dec. 27	85	2084
Bath-tub.....	D. D. Buick.....	29,677	Nov. 15	85	1072
Battery-plate.....	C. T. Richmond.....	29,265	Aug. 23	84	1276
Bead-engaging thimble.....	H. B. Ives.....	28,859	June 14	83	1651
Bead-engaging thimble.....	H. B. Ives.....	28,860	June 14	83	1651
Beam. Rolled-metal.....	W. P. Bettendorf.....	29,545	Oct. 25	85	604
Beam. Rolled-metal.....	W. P. Bettendorf.....	29,546	Oct. 25	85	604
Bearing-bracket.....	R. H. Postlethwaite.....	28,159	Jan. 11	82	331
Bearing-bracket.....	R. H. Postlethwaite.....	28,160	Jan. 11	82	331
Bearing-bracket.....	R. H. Postlethwaite.....	28,161	Jan. 11	82	332
Bearing cage. Ball.....	A. Perkins.....	28,869	June 14	83	1653
Bearings. Dust-cap for ball.....	J. C. Cummings.....	29,522	Oct. 18	85	448
Bed-bottom-supporting frame.....	J. H. Dyett.....	29,844	Dec. 20	85	1896
Bed-spring. Twin.....	J. M. Guynn and J. S. Parmer.....	29,631	Nov. 8	85	925
Beds. Head or foot piece for metal.....	C. H. Kimball.....	29,552	Oct. 25	85	605
Bedsread.....	W. White.....	29,257	Aug. 23	84	1275
Bedstead.....	W. W. Baldwin.....	28,769	May 31	83	1339



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Design.	Name.	No.	Date.	Official Gazette.	
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Bedstead corner-plate fastening	S. L. Haines	28,383	Mar. 15	82	1684
Bedstead end board	O. E. A. Wiessner	29,188	Aug. 9	84	974
Bedstead foot or head panel	W. M. Peters	29,284	Aug. 30	84	1428
Bedstead-frame corner-bracket	W. S. Plummer	29,739	Nov. 29	85	1393
Bedstead headboard or footboard	H. Ward	28,367	Mar. 8	82	1554
Bedstead headboard or footboard	H. Ward	28,368	Mar. 8	82	1554
Bedstead headboard or footboard	H. Ward	28,369	Mar. 8	82	1555
Bedstead head or foot	J. M. Adams	29,423	Sept. 27	84	2012
Bedstead head or foot	J. M. Adams	29,639	Nov. 8	85	927
Bedstead-post	W. F. Bernstein	28,475	Apr. 12	83	291
Bedstead-post	W. F. Bernstein	28,476	Apr. 12	83	291
Bedstead-rail member	G. Brand	29,002	July 5	84	139
Beer-cooler	E. Stahl	28,935	June 28	83	1981
Bell, Sleigh-	N. A. Ander	28,197	Jan. 18	82	456
Belt	J. F. Rose-Soley	29,096	July 26	84	641
Belt	F. M. Simons	29,489	Oct. 18	85	442
Belt body, Waist-	A. E. Dunbar	29,097	July 26	84	641
Belt-fastener member	J. H. Humes	29,698	Nov. 22	85	1214
Belt hook or staple	G. W. Webb	29,405	Sept. 27	84	2009
Belt, Money-	L. E. Varni-Gardinier	29,490	Oct. 18	85	442
Belt-plate	L. S. Richardson	29,776	Dec. 6	85	1580
Belt, Waist-	H. J. Gaisman	29,037	July 12	84	304
Belt, Waist-	C. Kohlman	28,450	Apr. 5	83	152
Bicycle bearing-bracket	G. J. Stevens	28,548	May 3	83	739
Bicycle bouquet-holder	F. L. Faries	28,162	Jan. 11	82	332
Bicycle-carrier	R. G. Woodward	28,153	Jan. 11	82	330
Bicycle casing or bracket	M. L. Nichols	28,352	Mar. 8	82	1552
Bicycle-clip block	J. H. Sager	29,628	Nov. 8	85	925
Bicycle-crank	H. A. Gustin	29,143	Aug. 2	84	799
Bicycle-crank	D. C. Stover	28,549	May 3	83	739
Bicycle crank-hanger	P. L. Hussey	29,246	Aug. 16	84	1136
Bicycle fork-head and reinforce	T. B. Jeffery	28,401	Mar. 22	82	1815
Bicycle-frame	J. S. Copeland	28,477	Apr. 12	83	291
Bicycle-frame	J. S. Copeland	28,587	May 10	83	904
Bicycle-frame	J. S. Copeland	28,588	May 10	83	904
Bicycle-frame	H. H. Fefel	28,991	July 5	84	136
Bicycle-frame	S. B. Hill	29,077	July 19	84	502
Bicycle-frame	C. H. Metz	29,478	Oct. 11	85	284
Bicycle-frame	G. L. K. Morrow	28,550	May 3	83	740
Bicycle-frame	C. H. Ocumpaugh	28,873	June 14	83	1653
Bicycle-frame	G. L. Thompson	29,243	Aug. 16	84	1136
Bicycle-frame	G. L. Thompson	29,244	Aug. 16	84	1136
Bicycle-frame crank-hanger	A. L. Moore	28,353	Mar. 8	82	1552
Bicycle-frame fork	G. A. Weidhass, Jr	28,227	Feb. 1	82	740
Bicycle-frame reinforce	T. B. Jeffery	28,402	Mar. 22	82	1816
Bicycle handle-bar	R. B. Eames	29,527	Oct. 18	85	449
Bicycle handle-bar	E. C. Garden	28,297	Feb. 15	82	1042
Bicycle handle-bar grip	C. H. Eldon	28,992	July 5	84	136
Bicycle-holder	M. Butler	28,228	Feb. 1	82	740
Bicycle-holder	H. S. Wedmore	28,589	May 10	83	904
Bicycle-holder spring	L. H. Snyder	28,755	May 31	83	1337
Bicycle-hub	J. A. Coulter	28,702	May 24	83	1199
Bicycle L saddle-post	E. C. Palmer	28,581	May 10	83	903
Bicycle-lamp bracket	E. M. Rosenbluth	28,700	May 24	83	1199
Bicycle lever attachment	J. E. Wilson	29,340	Sept. 13	84	1722
Bicycle-lock	F. W. Brown	28,661	May 17	83	1060
Bicycle-lock casing	A. H. Dean and R. F. Weir	28,226	Feb. 1	82	740
Bicycle-lock casing	A. H. Dean and R. F. Weir	28,403	Mar. 22	82	1816
Bicycle luggage-carrier	A. J. Gilfillan and W. H. White	28,295	Feb. 15	82	1042
Bicycle package-supporting clip	K. R. Stone	29,110	July 26	84	644
Bicycle-pedal	C. Glover	29,830	Dec. 20	85	1894
Bicycle pedal member	C. Glover	29,828	Dec. 20	85	1894
Bicycle pedal member	C. Glover	29,829	Dec. 20	85	1894
Bicycle-pedal side bar	G. W. Hadley	29,144	Aug. 2	84	799
Bicycle pedal tread-piece	E. H. Ehrman	28,314	Feb. 22	82	1203
Bicycle-pump	C. Darrell	29,577	Nov. 1	85	765
Bicycle-pump body	D. B. Smith	28,271	Feb. 8	82	887
Bicycle-pump body and base	D. B. Smith	28,899	June 21	83	1792
Bicycle-pumps. Head and shank member for	J. H. Goss	28,872	June 14	83	1653
Bicycle rear stay	C. F. Clothier, Jr., and T. A. Burrows.	29,526	Oct. 18	85	449
Bicycle repair-tool	J. E. Jodry	29,718	Nov. 22	85	1217
Bicycle-saddle	L. M. Hildreth	28,874	June 14	83	1654
Bicycle-saddle	F. A. Hollenbeck	28,434	Mar. 29	82	1982
Bicycle-saddle	J. A. Hunt	28,460	Apr. 5	83	153
Bicycle-saddle	J. A. Hunt	28,822	June 7	83	1505
Bicycle-saddle	J. H. Sager	28,296	Feb. 15	82	1042
Bicycle-saddle	B. F. Wheeler	28,435	Mar. 29	82	1982
Bicycle-saddle	F. A. Hollenbeck	28,433	Mar. 29	82	1982
Bicycle-saddle frame	S. J. Brown	29,247	Aug. 16	84	1137
Bicycle-saddle seat	A. L. Garford	28,382	Mar. 15	82	1683
Bicycle-saddle seat	A. L. Garford	29,717	Nov. 22	85	1217
Bicycle saddle-seat support	G. A. Macker	29,050	July 12	84	306
Bicycle-saddle spring	G. P. Holden	28,513	Apr. 26	83	589
Bicycle-saddle springs. Shell for clamps for	J. W. McKenzie	28,213	Jan. 25	82	500
Bicycle seat-post	B. F. Field and W. J. Shedd	28,900	June 21	83	1793
Bicycle seat-post	W. J. Shedd and B. F. Field	29,190	Aug. 9	84	975
Bicycle-shaft	C. H. Metz	29,521	Oct. 18	85	448
Bicycle-skate frame or body	S. W. Finch	28,753	May 31	83	1337
Bicycle sprocket-wheel	W. H. Fauber	28,215	Jan. 25	82	591
Bicycle-stand	A. G. Beckrow	28,754	May 31	83	1337
Bicycle-stand	H. Dolson and B. G. Appleby	28,458	Apr. 5	83	153
Bicycle T saddle-post	E. C. Palmer	28,582	May 10	83	903
Bicycle toe-clip	D. Basch	28,478	Apr. 12	83	292
Bicycle-valve nipple	F. Martinek and O. A. Lusk	28,701	May 24	83	1199
Bicycle-wheel hubs. Barrel for	C. E. Roberts	29,523	Oct. 18	85	448



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Bicycle wrench and scraper	L. Holabird	28,871	June 14	83	1653
Binding. Skirt	H. Feder	29,350	Sept. 13	84	1724
Binding. Skirt	H. Feder	29,556	Oct. 25	85	606
Binding. Skirt	H. Feder	29,557	Oct. 25	85	606
Binding. Skirt	C. L. Sulzberger	29,778	Dec. 6	85	1580
Binding. Skirt	C. L. Sulzberger	29,779	Dec. 6	85	1580
Binding. Skirt	C. L. Sulzberger	29,780	Dec. 6	85	1580
Binding. Skirt	C. L. Sulzberger	29,781	Dec. 6	85	1580
Binding. Skirt	C. L. Sulzberger	29,858	Dec. 20	85	1898
Binding. Skirt or garment	G. H. Stedwell	29,206	Aug. 9	84	978
Binding. Skirt or garment	G. H. Stedwell	29,207	Aug. 9	84	978
Bird-cage hook	A. B. Hendryx	28,157	Jan. 11	82	331
Bird-cage hook	A. B. Hendryx	28,158	Jan. 11	82	331
Blotter for check or similar books	B. M. Wiggins	28,911	June 21	83	1795
Blower casing. Steam-jet	B. K. Van Nortwick	28,745	May 31	83	1335
Boiler-drumhead	H. See	28,575	May 10	83	902
Boiler. Water-tube	J. B. Johnston and C. B. Little	28,122	Jan. 4	82	177
Bolt link. Shackle	B. C. Brown	28,541	May 3	83	738
Book-cover	A. M. Beckers	28,783	June 7	83	1499
Book-cover	J. R. Jones	29,359	Sept. 20	84	1857
Book cover. Memorandum	C. W. Hufschmidt	28,520	May 3	83	735
Book. Index	C. Leveque	29,138	Aug. 2	84	798
Book or music support	J. Edwards	29,533	Oct. 25	85	602
Boot	W. H. Atkins	29,751	Nov. 29	85	1395
Boot-calk	R. O. Jacobson	29,040	July 12	84	304
Bottle	A. Barrie	29,126	Aug. 2	84	796
Bottle	A. Barrie	29,127	Aug. 2	84	797
Bottle	R. M. Burnett	29,493	Oct. 18	85	442
Bottle	H. P. Dye	29,615	Nov. 8	85	922
Bottle	G. A. Flaccus	29,331	Sept. 13	84	1721
Bottle	W. S. Fox	28,969	July 5	84	133
Bottle	H. H. Freeman	29,092	July 26	84	640
Bottle	C. Gulden	28,412	Mar. 29	82	1978
Bottle	J. J. Hayes	29,616	Nov. 8	85	922
Bottle	R. H. Levis	29,170	Aug. 9	84	972
Bottle	P. Lindemeyr	28,841	June 14	83	1647
Bottle	C. McGinn	29,060	July 19	84	499
Bottle	G. Miller	28,790	June 7	83	1500
Bottle	E. C. Modes	28,483	Apr. 19	83	437
Bottle	E. C. Modes	28,635	May 17	83	1057
Bottle	E. Packham, Jr	29,171	Aug. 9	84	972
Bottle	B. R. Paine	28,687	May 24	83	1197
Bottle	B. R. Paine	29,318	Sept. 6	84	1578
Bottle	F. Schilling	28,634	May 17	83	1057
Bottle	H. Tappan	29,125	Aug. 2	84	796
Bottle	C. Wagner	28,532	May 3	83	737
Bottle	J. M. Whitall	28,182	Jan. 18	82	453
Bottle-cap	H. Tappan	28,636	May 17	83	1057
Bottle. Ink	B. Cameron	28,633	May 17	83	1057
Bottle or jar	M. E. Griffith	28,842	June 14	83	1648
Bottle. Pill	M. J. Bogert	28,731	May 31	83	1332
Bottle-washer spring	L. C. Gerken	29,540	Oct. 25	85	604
Bowl or vessel	B. Davies	28,733	May 31	83	1333
Box	A. A. Faxon	29,057	July 19	84	498
Box	M. Feder	28,141	Jan. 11	82	328
Box	T. W. Foster	28,685	May 24	83	1196
Box	T. W. Foster	28,727	May 31	83	1332
Box	F. A. C. Kaiser	29,274	Aug. 30	84	1427
Box	G. H. Richards	28,641	May 17	83	1058
Box	I. Tahl	29,036	July 12	84	303
Box	M. M. Tanner	28,728	May 31	83	1332
Box blank. Paper	E. A. Armstrong	29,251	Aug. 16	84	1137
Box blank. Paper	A. Datz	29,593	Nov. 1	85	769
Box-body	G. E. Waldeck	29,645	Nov. 8	85	928
Box-cover brace	L. Diesterweg	29,391	Sept. 20	84	1863
Box-fastener	S. C. Cary	28,142	Jan. 11	82	328
Box front. Lock	G. L. Barney and J. S. Kittle	28,315	Feb. 22	82	1203
Box-lid	G. A. Bisler	29,172	Aug. 9	84	972
Box-lid holder	J. L. Conway	28,531	May 3	83	737
Box-lid support	J. L. Conway	29,643	Nov. 8	85	927
Box. Metallic	B. G. Taite	28,413	Mar. 29	82	1978
Box or can cover	A. Cameron, Jr.	28,405	Mar. 22	82	1816
Box. Ornamental	E. Sohn	28,686	May 24	83	1197
Box. Ornamental toilet-powder	B. G. Taite	29,259	Aug. 23	84	1275
Box ornamentation	N. Witsch	28,910	June 21	83	1795
Box. Paper	R. P. Brown	29,852	Dec. 20	85	1897
Box. Paper	P. B. Myers	28,640	May 17	83	1058
Box. Paper	P. B. Myers	28,730	May 31	83	1332
Box. Paper	P. B. Myers	29,093	July 26	84	640
Box. Wooden	M. J. Bogert	29,252	Aug. 16	84	1137
Box. Wooden	W. C. Estes	28,414	Mar. 29	82	1978
Box. Wooden	W. C. Estes	28,642	May 17	83	1058
Bracelet or similar article	F. H. La Pierre	28,720	May 31	83	1331
Bracket	A. H. Gillespie and G. H. Hughel	29,885	Dec. 27	85	2081
Bracket. Supporting	S. W. Mason	28,325	Mar. 1	82	1409
Braid	F. W. Klein	28,777	May 31	83	1341
Braid	M. W. Schloss	28,881	June 14	83	1655
Braid	V. Schuck	28,248	Feb. 1	82	743
Braid	V. Schuck	29,322	Sept. 6	84	1579
Braid. Trimming	H. Maul	29,208	Aug. 9	84	978
Brake-beam fulcrum-jaw	T. H. Simpson and P. T. Handiges	29,106	July 26	84	643
Brake-shoe	O. B. Whitney	28,542	May 3	83	738
Bread-box	M. Cody	29,758	Dec. 6	85	1577
Bread. Loaf of	C. W. Kolb	29,273	Aug. 23	84	1277
Brick. Fire	H. S. Vrooman	29,840	Dec. 20	85	1895
Brick. Fire	H. S. Vrooman	29,841	Dec. 20	85	1896



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Brick. Fire.	H. S. Vrooman	29,842	Dec. 20	85	1896
Brick for hot-blast stoves	F. H. Foote	28,495	Apr. 19	83	439
Brick. Paving.	B. Weber	28,376	Mar. 15	82	1682
Bridle-bit side bar	F. F. Conner	29,703	Nov. 22	85	1214
Broiler	Z. T. Hall	29,714	Nov. 22	85	1216
Broiler or toaster member	M. Neagle	29,759	Dec. 6	85	1577
Broom-handle	F. F. Burtch	28,121	Jan. 4	82	177
Broom-shield	G., Sr., and F. Pirrung	29,332	Sept. 13	84	1721
Brush	G. R. Fox	29,883	Dec. 27	85	2080
Brush-back	F. H. Loveless	29,613	Nov. 8	85	922
Brush-back	R. B. Shepherd	29,167	Aug. 9	84	971
Brush-back cover	T. W. Foster	28,409	Mar. 29	82	1978
Brush. Clothes-	F. H. La Pierre	28,682	May 24	83	1196
Brush. Hair-	F. H. La Pierre	28,683	May 24	83	1196
Brush or mirror back	F. H. La Pierre	28,169	Jan. 18	82	451
Brush. Tooth-	J. F. Ufford	29,219	Aug. 16	84	1132
Brushes, &c. Back for	W. C. Codman	29,531	Oct. 25	85	602
Brushes, &c. Back for	E. Crees and C. S. Court	29,216	Aug. 16	84	1131
Brushes, &c. Back for	C. Egge	29,121	Aug. 2	84	796
Brushes, &c. Back for	G. C. Egge	28,632	May 17	83	1057
Brushes, &c. Back for	T. W. Foster	28,526	May 3	83	736
Brushes, &c. Back for	E. Lengers	28,168	Jan. 18	82	451
Brushes, &c. Back for	L. W. Pretzer	28,503	Apr. 26	83	588
Brushes, &c. Back for	J. E. Straker, Jr.	29,015	July 12	84	300
Brushes, &c. Back for	J. E. Straker, Jr.	29,217	Aug. 16	84	1131
Brushes, &c. Back for	J. Theobald	29,275	Aug. 30	84	1427
Brushes, &c. Back for	H. A. Weihman	29,218	Aug. 16	84	1131
Brushes, mirrors, or similar articles. Back for	J. F. Laurin	28,922	June 28	83	1979
Brushes or similar articles. Back for	F. Habensack	29,464	Oct. 11	85	282
Bucket top or cover. Lunch-	W. M. Robertson	28,485	Apr. 19	83	437
Buckle	T. Moore	29,277	Aug. 30	84	1428
Buckle	T. Moore	29,278	Aug. 30	84	1428
Buckle	T. Moore	29,279	Aug. 30	84	1428
Buckle	T. Moore	29,280	Aug. 30	84	1428
Buckle	T. Moore	29,281	Aug. 30	84	1428
Buckle	T. Moore	29,282	Aug. 30	84	1428
Buckle	H. C. Noble	28,505	Apr. 26	83	588
Buckleframe. Harness-	G. P. Prentis	28,695	May 24	83	1198
Buckle piece. Suspender-	W. Bloomberg	28,486	Apr. 19	83	437
Buckle-plate	J. Forsheim	28,722	May 31	83	1331
Buckle. Suspender-	A. Coleman	28,560	May 10	83	900
Buggy-top plate	D. Conboy	29,419	Sept. 27	84	2011
Buggy-top support	H. W. Caldwell	29,156	Aug. 2	84	801
Bung-hole borer	F. J. del Corral	29,024	July 12	84	301
Burial-casket	W. C. Lautner	28,675	May 17	83	1063
Burial-casket	S. Reynolds	28,615	May 10	83	909
Burial-casket body	L. Stein and W. A. Sparks	28,149	Jan. 11	82	329
Burial-casket cover	W. C. Lautner	28,442	Mar. 29	82	1984
Burial-casket top	L. Stein and W. A. Sparks	28,148	Jan. 11	82	329
Burner	C. H. Page, Jr., and E. L. Brundrett	28,451	Apr. 5	83	152
Burner	E. Unger	28,649	May 17	83	1059
Bustle	J. H. Goodbody	29,558	Oct. 25	85	606
Bustle	D. H. Warner	28,275	Feb. 8	82	888
Butter-curler	J. E. and S. Haworth	29,031	July 12	84	302
Butter-stamping block	H. M. Brandt and E. Essley	29,302	Sept. 6	84	1575
Button. Collar or cuff	F. W. Taylor	29,563	Nov. 1	85	762
Button. Cuff-	H. L. Palmer	28,443	Apr. 5	83	151
Button-head	F. P. Laws	28,679	May 24	83	1196
Button-hook handle	F. Thielke	28,390	Mar. 22	82	1814
Button-hook handle	F. Thielke	28,391	Mar. 22	82	1814
Button-hooks, &c. Handle for	W. Bens	29,088	July 26	84	640
Button-hooks, &c. Handle for	E. Cress and C. S. Court	28,554	May 10	83	899
Button-hooks, &c. Handle for	E. Cress and C. S. Court	28,555	May 10	83	899
Button-hooks, &c. Handle for	E. Cress and C. S. Court	28,556	May 10	83	899
Button-hooks, &c. Handle for	E. Cress and C. S. Court	28,557	May 10	83	899
Button-hooks, &c. Handle for	E. Cress and C. S. Court	28,921	June 28	83	1979
Button-hooks, &c. Handle for	E. Cress and C. S. Court	29,016	July 12	84	300
Button-hooks, &c. Handle for	F. J. Diacont	29,017	July 12	84	300
Button-hooks, &c. Handle for	F. J. Diacont	29,018	July 12	84	300
Button-hooks, &c. Handle for	L. Kranz	28,919	June 28	83	1978
Button-hooks, &c. Handle for	L. Kranz	28,920	June 28	83	1978
Button-hooks, &c. Handle for	L. Kranz	29,213	Aug. 16	84	1131
Button-hooks, &c. Handle for	L. Kranz	29,214	Aug. 16	84	1131
Button-hooks, &c. Handle for	H. F. W. Schleckser	28,552	May 10	83	899
Button-hooks, &c. Handle for	F. R. Stafford	28,553	May 10	83	899
Button-hooks, &c. Handle for	J. E. Straker, Jr.	29,263	Aug. 23	84	1276
Button-hooks, &c. Handle for	F. Thielke	28,518	Apr. 26	83	590
Button. Link cuff-	J. E. Hills	29,562	Nov. 1	85	762
Button or similar article	C. C. Penfold	29,462	Oct. 11	85	281
Button or stud back and shank	A. Bippart	29,225	Aug. 16	84	1132
Button or stud. Collar-	A. Bippart	28,628	May 17	83	1056
Button-plate	S. Carver	29,328	Sept. 13	84	1721
Buttuner. Collar-	C. P. Mulherin	28,918	June 28	83	1978
Butyrometer	N. Gerber	28,817	June 7	83	1504
Cab-body	C. Thomas	29,678	Nov. 15	85	1072
Cab-body	C. Thomas	29,679	Nov. 15	85	1072
Cabinet	F. Heinig	29,398	Sept. 20	84	1864
Cabinet. Cheese-	F. M. Keith	28,893	June 21	83	1792
Cabinet. Grocer's	W. E. Hewit	28,938	June 28	83	1982
Cabinet. Grocer's	C. E. Wyman	28,498	Apr. 19	83	439
Cabinet. Kitchen-	J. W. Andrews and W. E. Ragan	29,637	Nov. 8	85	926
Cabinet. Kitchen-	J. W. Brundage	28,667	May 17	83	1062
Cabinet. Kitchen-	W. T. Holley	28,243	Feb. 1	82	743
Cabinet. Kitchen-	J. P. Murray	28,768	May 31	83	1339
Cabinet. Kitchen-	S. Sanders	28,767	May 31	83	1339
Cabinet. Kitchen-	W. B. Tabor	28,666	May 17	83	1061



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Design.	Name.	No.	Date.	Official Gazette.	
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Cabinet. Kitchen-----	D. E. Wiseman	29,887	Dec. 27	85	2081
Cabinet. Spice-----	E. F. Snyder	28,605	May 10	83	907
Cabinet. Writing-table-----	J. L. Kerstetter	28,262	Feb. 8	82	886
Cake. Corn-----	G. H. Cross	29,882	Dec. 27	85	2080
Cake-turner-----	L. A. Pitts	29,621	Nov. 8	85	923
Calendar-base-----	M. Rubin	29,665	Nov. 15	85	1070
Calendar-casing-----	N. Hayden and C. F. C. Wurst	29,137	Aug. 2	84	798
Cam-wheel-----	A. J. Wheeler	28,354	Mar. 8	82	1552
Camera body. Photographic-----	F. A. Brownell	29,376	Sept. 20	84	1861
Can body. Oil-----	C. W. Cummings	29,622	Nov. 8	85	924
Can. Meat-----	S. S. Conway	28,989	July 5	84	136
Can. Oil-----	J. W. Cushman	28,580	May 10	83	903
Can-opener-----	W. G. Browne	29,231	Aug. 16	84	1133
Can-opener-----	H. Harris	29,508	Oct. 18	85	446
Can-opener-----	J. F. Rowley	28,420	Mar. 29	82	1979
Can-opener body-----	S. L. Tallman	28,232	Feb. 1	82	741
Can. Sheet-metal-----	C. Diesel	29,180	Aug. 9	84	973
Candle-shade-----	H. Hohenstein	29,756	Dec. 6	85	1577
Candlestick-----	A. F. Jackson	29,260	Aug. 23	84	1276
Candlestick-----	B. P. Jenks	28,968	July 5	84	133
Candlestick-----	P. Miller and I. Bodker	29,877	Dec. 27	85	2079
Candy. Wrapped-----	O. Takvorian	28,672	May 17	83	1062
Cap for exploding dynamite-cartridges-----	W. P. Ferguson	28,949	June 28	83	1984
Cap-lift-----	W. A. Williamson	29,798	Dec. 13	85	1730
Cap. Storm-----	W. J. Lane	29,796	Dec. 13	85	1730
Car-axle bearings. Crown-back for-----	W. B. Smith	28,892	June 21	83	1791
Car-axle bearings. Wedge for-----	W. B. Smith	28,893	June 21	83	1791
Car-body bolster-----	E. F. Goltra	29,421	Sept. 27	84	2011
Car-bolster-----	J. Player	28,574	May 10	83	902
Car-coupling knuckle-----	J. Timms	29,446	Oct. 4	85	144
Car-coupling knuckle-----	J. Timms	29,447	Oct. 4	85	144
Car-door track-----	E. S. Marshall	28,742	May 31	83	1334
Car side post or stanchion-----	J. A. Brill	29,583	Nov. 1	85	766
Car-wheel blank-----	J. A. Facer	29,388	Sept. 20	84	1863
Car-wheel tire-----	J. W. Fuller	28,192	Jan. 18	82	455
Card-----	J. S. Conant	28,375	Mar. 15	82	1682
Card-mount-----	J. P. Odgers	28,954	June 28	83	1985
Card-mount-----	J. P. Odgers	29,590	Nov. 1	85	768
Card-receiver-----	M. B. Groce	29,817	Dec. 20	85	1892
Carline-pocket-----	H. W. Gays	28,358	Mar. 8	82	1552
Carpet-----	A. Bunel	29,804	Dec. 13	85	1731
Carpet-----	W. M. Cox	28,128	Jan. 4	82	178
Carpet-----	W. M. Cox	28,129	Jan. 4	82	178
Carpet-----	E. A. Crowe	28,251	Feb. 1	82	744
Carpet-----	E. A. Crowe	28,252	Feb. 1	82	744
Carpet-----	E. A. Crowe	28,278	Feb. 8	82	889
Carpet-----	E. A. Crowe	28,279	Feb. 8	82	889
Carpet-----	E. A. Crowe	28,280	Feb. 8	82	889
Carpet-----	G. M. Fauser	29,352	Sept. 13	84	1724
Carpet-----	A. G. Fromuth	28,882	June 14	83	1655
Carpet-----	W. C. Magee	28,126	Jan. 4	82	178
Carpet-----	W. C. Magee	28,127	Jan. 4	82	178
Carpet-----	A. K. May	28,826	June 7	83	1505
Carpet-----	A. K. May	28,827	June 7	83	1505
Carpet-----	A. K. May	28,828	June 7	83	1506
Carpet-----	A. K. May	28,829	June 7	83	1506
Carpet-----	A. K. May	28,830	June 7	83	1506
Carpet-----	A. K. May	28,831	June 7	83	1506
Carpet-----	A. K. May	28,832	June 7	83	1506
Carpet-----	A. M. Rose	29,008	July 5	84	140
Carpet-----	A. M. Rose	29,009	July 5	84	140
Carpet-----	A. M. Rose	29,010	July 5	84	140
Carpet-----	A. M. Rose	29,011	July 5	84	141
Carpet-----	E. G. Sauer	29,401	Sept. 20	84	1865
Carpet-----	N. S. Stewart	28,130	Jan. 4	82	178
Carpet-----	N. S. Stewart	28,131	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,132	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,133	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,134	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,135	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,136	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,137	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,138	Jan. 4	82	179
Carpet-----	N. S. Stewart	28,139	Jan. 4	82	180
Carpet-----	N. S. Stewart	29,426	Sept. 27	84	2012
Carpet-----	N. S. Stewart	29,427	Sept. 27	84	2012
Carpet-----	N. S. Stewart	29,428	Sept. 27	84	2013
Carpet-----	N. S. Stewart	29,429	Sept. 27	84	2013
Carpet-----	N. S. Stewart	29,430	Sept. 27	84	2013
Carpet-----	N. S. Stewart	29,431	Sept. 27	84	2013
Carpet button. Stair-----	R. H. Warren	28,801	June 7	83	1501
Carpet-stretcher plate-----	J. F. Martin and J. W. Orton	28,943	June 28	83	1983
Carpeting-----	F. M. Parker	29,210	Aug. 9	84	978
Carriage body. Child's-----	H. A. Dixon	28,318	Feb. 22	82	1203
Carton-blank-----	R. J. Barkley	29,094	July 26	84	640
Carton-blank-----	F. A. Davidson	29,644	Nov. 8	85	928
Carton filler-----	R. J. Barkley	29,299	Sept. 6	84	1575
Carton or envelop-----	W. B. Gere	28,639	May 17	83	1058
Cartridges. Cap for exploding dynamite-----	W. P. Ferguson	29,537	Oct. 25	85	603
Case-----	A. E. Fouch	28,308	Feb. 22	82	1202
Cash-register cabinet-----	E. Ringold	29,346	Sept. 13	84	1723
Cash-register case-----	J. H. Carson	28,223	Feb. 1	82	739
Casket-----	W. Hamilton	28,255	Feb. 1	82	744
Casket-----	L. Stein and C. F. Wetmore	28,916	June 21	83	1796
Casket-body-----	L. Stein and C. F. Wetmore	28,835	June 7	83	1507
Caster socket. Roller-----	W. I. Stilwell	28,323	Mar. 1	82	1409



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Design.	Name.	No.	Date.	Official Gazette.	
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Cement-receptacle	J. B. Hadaway	28,547	May 3	83	739
Chafing-dish stand	L. Wojdkow	29,879	Dec. 27	85	2080
Chain link. Bicycle	C. A. Dunn	28,195	Jan. 18	82	456
Chain link. Bicycle	C. A. Dunn	28,196	Jan. 18	82	456
Chair	A. D. Crocker	29,849	Dec. 20	85	1897
Chair	J. H. Parker, Jr	29,304	Sept. 6	84	1575
Chair	W. Thommen	28,819	June 7	83	1504
Chair. Barber's	A. J. Rollert	29,847	Dec. 20	85	1896
Chair. Barber's	A. J. Rollert	29,848	Dec. 20	85	1897
Chair or stool	A. D. Crocker	29,395	Sept. 20	84	1864
Chair or stool	A. D. Crocker	29,396	Sept. 20	84	1864
Chair or stool	A. D. Crocker	29,397	Sept. 20	84	1864
Chair-seat	J. Franz	28,818	June 7	83	1504
Chair-seat. Bent-wood	J. H. Coffman	29,303	Sept. 6	84	1575
Chair-seat. Bent-wood	F. A. Dennett	28,611	May 10	83	908
Chair-seat. Bent-wood	F. A. Dennett	29,235	Aug. 16	84	1134
Chair-seat. Bent-wood	W. Schrage	28,665	May 17	83	1061
Channel-iron	J. H. Baker	28,863	June 14	83	1652
Channel-iron	J. H. Baker	28,864	June 14	83	1652
Charm	J. F. Price	29,166	Aug. 9	84	971
Charm	B. T. Selman	28,626	May 17	83	1056
Charm	B. T. Selman	28,627	May 17	83	1056
Checker-board	H. A. Rackleff	28,317	Feb. 22	82	1203
Cheese-mold	L. C. Smith	29,033	July 12	84	303
Chest or bin	M. F. Brown	29,439	Oct. 4	85	143
Chimney	A. Howard	28,845	June 14	83	1649
Chimney	A. Howard	29,837	Dec. 20	85	1895
Chimney	A. Howard	29,838	Dec. 20	85	1895
Chimney	E. Kaye	29,835	Dec. 20	85	1895
Chimney	E. Kaye	29,836	Dec. 20	85	1895
Chimney-cap	J. L. Woodside	28,237	Feb. 1	82	742
Chimney-protector	J. H. Way	29,498	Oct. 18	85	443
Christmas-tree support	C. J. Taylor	29,801	Dec. 13	85	1731
Chuck	E. J. Skinner	29,067	July 19	84	500
Churn-body and support	T. H. Betty	28,875	June 14	83	1654
Churn-dash	J. R. Renfro, Jr	28,606	May 10	83	907
Churn-dash	R. T. Van Valkenburg	28,428	Mar. 29	82	1981
Churn-dasher	E. W. Gladhill	28,706	May 24	83	1200
Churn-dasher	W. Sanders	28,283	Feb. 15	82	1040
Cigar	H. Heitmann	28,836	June 14	83	1647
Cigar	H. Heitmann	29,089	July 26	84	640
Cigar	H. Heitmann	29,090	July 26	84	640
Cigar-box	A. H. Nieding	28,729	May 31	83	1338
Cigar-box print or pattern	C. A. Speakman	28,521	May 3	83	732
Cigar-boxes. Ornamental print or pattern for	C. A. Speakman	28,257	Feb. 8	82	885
Cigar-boxes. Ornamental print or pattern for	C. A. Speakman	28,373	Mar. 15	82	1681
Cigar-boxes. Ornamental print or pattern for	C. A. Speakman	28,374	Mar. 15	82	1681
Cigar-case	J. Dittmar	29,221	Aug. 16	84	1132
Cigar-case	M. Epstein	28,176	Jan. 18	82	452
Cigar or cigarette box	N. Weiss	29,056	July 19	84	498
Cigar-lighter body	E. Schaefer	28,522	May 3	83	735
Cigar or similar article	C. G. Singley	28,786	June 7	83	1499
Cigar-shield	F. A. Baldwin	29,785	Dec. 13	85	1728
Cigar-wrapper	O. L. Parmenter	29,491	Oct. 18	85	442
Cigar-wrapper	O. L. Parmenter	29,591	Nov. 1	85	768
Cigar-wrapper	O. L. Parmenter	29,592	Nov. 1	85	768
Cigar-wrapper-cutting-machine table	N. Du Brul	28,292	Feb. 15	82	1042
Clamp	H. L. and W. Ambler	28,539	May 3	83	736
Clasp member	N. Crane	29,539	Oct. 25	85	603
Cleaner and smoke-deflector	W. O. Blase	29,288	Aug. 30	84	1429
Cleat. Rope	J. Gaskill	29,330	Sept. 13	84	1721
Clip-post	J. J. Zimmele	28,890	June 21	83	1791
Clippers. Cutting-plate for hair	C. H. Redman, Jr	28,421	Mar. 29	82	1980
Clipping-holder	C. E. Schwartz	29,519	Oct. 18	85	448
Clock-case or similar article	P. Best	29,434	Oct. 4	85	141
Clock-dial	C. Godshaw	28,932	June 28	83	1981
Clock-frame	C. A. Hirschi	29,300	Sept. 6	84	1575
Closet-bend, &c	E. J. Rice	29,290	Aug. 30	84	1429
Closet-bend flange	E. J. Rice	29,291	Aug. 30	84	1429
Cloth-cutters. Frame for electrically-operated	G. P. Eastman	29,000	July 5	84	138
Clothes-pin	F. C. Hazen	28,693	May 24	83	1198
Clothes-pin member	T. J. Atkinson	29,799	Dec. 13	85	1730
Clothes-pounder	H. D. Crooker	29,412	Sept. 27	84	2010
Coat and shelter-tent. Rain	J. E. Schoenberg	29,651	Nov. 8	85	929
Coat-hanger	J. E. Kennedy	29,872	Dec. 27	85	2078
Cock. Basin	H. M. Brewster	28,234	Feb. 1	82	741
Cocks. Casing for stop	H. C. Weeden	29,473	Oct. 11	85	283
Coffee-pot	H. E. Guyn	29,437	Oct. 4	85	142
Coin-operated-machine cabinet	R. Wagner	28,995	July 5	84	137
Collar	H. P. Wilder	28,914	June 21	83	1795
Collar. High turn-down	E. K. Betts	28,304	Feb. 15	82	1044
Comb	J. T. Wilcox	28,156	Jan. 11	82	331
Combs. Member of	R. F. Tochtermann	29,404	Sept. 27	84	2009
Condenser-casing	H. See	28,150	Jan. 11	82	329
Condiment-holder	C. A. Cuppia	28,259	Feb. 8	82	885
Concentrator-band	G. Johnston	28,578	May 10	83	902
Confection	J. Simon	28,957	June 28	83	1985
Contact-box cover	W. M. Brown	29,795	Dec. 13	85	1730
Core-supporting shell. Founder's	B. W. Burdick	28,763	May 31	83	1338
Cork-extractor casing	W. Robertson	29,379	Sept. 20	84	1861
Corn-cutter	C. H. Smith	28,810	June 7	83	1503
Corner-piece	W. H. Fleischman	29,150	Aug. 2	84	800
Corner-protector strip	R. E. Daniels	28,509	Apr. 26	83	589
Coupling. Quarter-bend	C. H. Rose	28,572	May 10	83	901
Cover for vessels or pans	H. A. Bowers	28,261	Feb. 8	82	885
Cover. Vessel	A. Geering	28,378	Mar. 15	82	1682



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Design.	Name.	No.	Date.	Official Gazette.	
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Cradle-guard	M. B. Weathers	29,638	Nov. 8	85	926
Crank-arm and sprocket-wheel flange	W. H. Fauber	28,214	Jan. 25	82	590
Crank. Driving	S. O. Wilbor	29,297	Aug. 30	84	1430
Cream-separator	A. C. Webber	28,816	June 7	83	1503
Cream-separator	G. T. Wheeler	29,715	Nov. 22	85	1217
Cuff-holder	R. Caspar	28,972	July 5	84	134
Cuff-holder	H. C. Frank	28,725	May 31	83	1331
Cuff-holder member	J. V. Pilcher	29,727	Nov. 29	85	1391
Cultivator-blade	T. Wheat	29,341	Sept. 13	84	1722
Cultivator gang-frame	C. W. and M. R. Davis	28,747	May 31	83	1335
Cultivator-tool frame	D. M. Motherwell	29,070	July 19	84	500
Cup	C. J. Ahrenfeldt	29,122	Aug. 2	84	796
Cup	H. M. Williams	29,814	Dec. 20	85	1892
Cup	H. M. Williams	29,815	Dec. 20	85	1892
Cup or bowl	C. E. Haviland	28,930	June 28	83	1980
Cup or similar article	J. W. Hanley	29,617	Nov. 8	85	923
Cups. Mustache-guard for	E. H. Green	29,466	Oct. 11	85	282
Curling-iron holder	A. Pfeieger	29,230	Aug. 16	84	1133
Curling-tongs-heater holder	L. H. Snyder	28,737	May 31	83	1333
Curtain	F. V. Ream	28,620	May 10	83	910
Curtain-border	J. W. Doran	29,458	Oct. 4	85	146
Curtain-hanger	A. A. Brengel	29,669	Nov. 15	85	1070
Curtain-pole and shade-roller bracket	A. C. Smith	28,858	June 14	83	1651
Curtain-ring	F. L. Lathrop	29,574	Nov. 1	85	765
Cushion	W. N. Amory	28,903	June 21	83	1793
Cuspidor	S. H. Hart	28,387	Mar. 15	82	1684
Cuspidor-cleaner	W. E. Whittemore	28,707	May 24	83	1200
Cut-out cabinet	C. J. Klein	29,154	Aug. 2	84	801
Cutter and swage	J. Moon	28,425	Mar. 29	82	1980
Cyclometer-bracket	E. Hart	28,590	May 10	83	904
Cyclometer-case	G. B. Bassett	29,869	Dec. 27	85	2078
Cyclometer-casing	E. Hart	28,591	May 10	83	905
Dental-plugger handle	G. E. Greene	29,560	Nov. 1	85	762
Dental separator	H. W. Gillett	28,934	June 28	83	1981
Desk and cabinet	E. N. Gilfillan	28,244	Feb. 1	82	743
Die	D. Dunton and E. A. Hendricks	28,208	Jan. 25	82	589
Die	D. Dunton and E. A. Hendricks	28,209	Jan. 25	82	590
Die-block	E. Rogers	29,136	Aug. 2	84	798
Die. Incising	F. W. Whitcher	29,824	Dec. 20	85	1893
Die-plate	B. B. Hill	29,823	Dec. 20	85	1893
Dish	W. H. Grindley	29,618	Nov. 8	85	923
Dish	C. E. Haviland	28,927	June 28	83	1980
Dish, &c	F. G. Holmes	29,675	Nov. 15	85	1071
Dish	A. Netherland	29,168	Aug. 9	84	971
Dish. Cover-	C. E. Haviland	28,928	June 28	83	1980
Dish. Cover-	C. E. Haviland	28,929	June 28	83	1980
Dish. Covered	C. J. Ahrenfeldt	29,123	Aug. 2	84	796
Dish. Covered	W. H. Grindley	29,570	Nov. 1	85	764
Dish. Covered	A. Paroutaud	29,788	Dec. 13	85	1729
Dish. Covered	A. Paroutaud	29,816	Dec. 20	85	1892
Dish-mount	J. G. Theobald	29,325	Sept. 13	84	1720
Display-card	J. E. Hills	28,713	May 24	83	1201
Display-case	T. M. Quigley	29,083	July 19	84	503
Display-frame. Monogramic	G. L. Mason	29,726	Nov. 29	85	1390
Display-rack	I. A. Jones	28,437	Mar. 29	82	1983
Display-rack	A. C. Mills, Jr	28,771	May 31	83	1340
Display-rack	C. B. Morrow	28,772	May 31	83	1340
Display-rack	M. V. Shaff	28,263	Feb. 8	82	886
Display-stand	A. B. Schanz	29,271	Aug. 23	84	1277
Display-stand arm	B. F. Cornell	28,364	Mar. 8	82	1553
Door	D. Price	29,043	July 12	84	305
Door-button	W. Lippincott	28,508	Apr. 26	83	588
Door-catch	C. L. Frost	28,488	Apr. 19	83	438
Door-check casing	C. O. Case	29,042	July 12	84	304
Door-securer clamp	E. R. Branch	28,565	May 10	83	900
Drum. Heat-radiating	F. K. Pylick	29,585	Nov. 1	85	767
Dust-guard section	J. S. Patten	29,768	Dec. 6	85	1578
Dust-guard section	J. S. Patten	29,769	Dec. 6	85	1579
Dust-scraper	D. Fay	28,944	June 28	83	1983
Ear. Vessel-	T. Loynd	28,979	July 5	84	134
Easel	F. G. Frankenberg and A. H. Schweickhardt.	29,573	Nov. 1	85	765
Easel	R. J. Lewers	29,646	Nov. 8	85	928
Eaves-trough hanger	C. D. Ward	28,359	Mar. 8	82	1552
Egg-beater handle	T. W. Brown	29,873	Dec. 27	85	2079
Egg-carton filler	R. J. Barkley	29,511	Oct. 18	85	446
Egg-carton filler	R. J. Barkley	29,512	Oct. 18	85	446
Egg-separator	B. F. Macy	28,876	June 14	83	1654
Egg-separator	H. S. Pullman	29,139	Aug. 2	84	799
Electric cut-outs. Attachment-plug for	A. P. Seymour	29,708	Nov. 22	85	1215
Electric-machine casing. Dynamo-	W. S. Moody	29,373	Sept. 20	84	1860
Electric-motor casing	A. L. Riker	28,124	Jan. 4	82	178
Electrical-instrument case	W. A. Layman	29,451	Oct. 4	85	145
Electrical-instrument case	E. Weston	28,395	Mar. 22	82	1815
Electrical-instrument case	E. Weston	28,396	Mar. 22	82	1815
Electrical-measuring-instrument case	E. Weston	28,394	Mar. 22	82	1814
Electrical purposes. Plug for	H. P. Maxim	28,744	May 31	83	1335
Electrode. Battery-	Z. Taylor and M. L. Bergman	28,492	Apr. 19	83	438
Embroidery pattern-chart	J. Marsden	29,653	Nov. 8	85	929
Embroidery-hoop	L. Gibbs	28,671	May 17	83	1062
Embroidery-ring	I. O. Gurnee	28,301	Feb. 15	82	1043
Embroidery-silk-holder card	E. Potter	29,722	Nov. 22	85	1218
Engine-bed	T. E. Chandler and E. Dodds	28,288	Feb. 15	82	1041
Engine frame. Gas-	W. A. Bole, E. Ruud, and E. S. McClelland.	29,800	Dec. 13	85	1731
Engraving-machine frame. Pantograph-	J. and J. Hope, Jr	28,996	July 5	84	137



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Design.	Name.	No.	Date.	Official Gazette.	
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Envelop	J. M. Heasley	29,260	Sept. 20	84	1857
Envelop	R. M. Johnson	28,953	June 28	83	1984
Envelop-blank	G. E. Plunkett	29,079	July 19	84	502
Envelop-blank	W. H. Smith	28,966	July 5	84	133
Eraser	H. Thompson	29,486	Oct. 18	85	441
Escutcheon-plate, &c.	M. Schwendner	28,410	Mar. 29	82	1978
Ewer	W. H. Grindley	28,140	Jan. 4	82	180
Ewer	W. H. Grindley	28,144	Jan. 11	82	329
Ewer	W. H. Grindley	29,569	Nov. 1	85	763
Eyeglass-case	H. E. Guyer	29,867	Dec. 27	85	2078
Eyeglass-case	J. G. Koenen	29,485	Oct. 18	85	441
Eyeglass or spectacle case	W. Zoerb	29,220	Aug. 16	84	1132
Fabric	A. A. Azeez	29,351	Sept. 13	84	1724
Fabric	H. M. Bryce	28,676	May 17	83	1063
Fabric	S. L. Fleischer	28,915	June 21	83	1796
Fabric	W. Keil	29,460	Oct. 4	85	146
Fabric	W. Keil	29,461	Oct. 4	85	146
Fabric	W. H. Mayer	29,915	Dec. 27	85	2087
Fabric	R. J. Peterson	29,605	Nov. 1	85	771
Fabric	R. J. Peterson	29,606	Nov. 1	85	771
Fabric	R. J. Peterson	29,607	Nov. 1	85	771
Fabric	R. J. Peterson	29,608	Nov. 1	85	772
Fabric	E. Stohn	28,249	Feb. 1	82	743
Fabric	E. Stohn	28,250	Feb. 1	82	743
Fabric for hangings	J. Koch	28,481	Apr. 19	83	436
Fabric. Plaited	W. Lowe	29,723	Nov. 22	85	1218
Fabric. Textile	I. H. Goodman	28,516	Apr. 26	83	590
Fabric. Textile	H. S. Lawson	28,825	June 7	83	1505
Face-steamer casing	A. Addison	29,567	Nov. 1	85	763
Fan	C. G. Hulse	29,165	Aug. 9	84	971
Fan. Register-	S. Tuttle	29,763	Dec. 6	85	1578
Fasteners. Socket member for detachable	G. E. Adams	28,346	Mar. 8	82	1551
Fasteners. Socket member for detachable	E. Pringle	29,445	Oct. 4	85	144
Fastening-eye	J. Thomson	28,534	May 3	83	737
Fastening member	N. Crane	29,538	Oct. 25	85	603
Faucet	D. D. Buick	29,705	Nov. 22	85	1215
Faucet	J. H. Glauber	29,734	Nov. 29	85	1392
Faucet-body	A. Giese	29,025	July 12	84	301
Fence-post	H. J. Donahoe	29,316	Sept. 6	84	1578
Fence-post	J. P. Mohler	28,474	Apr. 12	83	290
Fence-stay fastener	W. A. Forbes	28,889	June 21	83	1791
Fence. Wire	A. Henley	29,160	Aug. 2	84	802
Fence. Wire	A. L. Kitselman	29,158	Aug. 2	84	802
Fence. Wire	A. L. Kitselman	29,159	Aug. 2	84	802
Fence. Wire	J. H. Srofe	28,500	Apr. 19	83	440
Fencing pattern. Wire	D. M. Kitselman	28,515	Apr. 26	83	589
File	S. D. Brown	28,690	May 24	83	1198
File-case. Sales-book	H. Kirkwood	28,839	June 14	83	1647
File. Paper	O. A. Dean	29,487	Oct. 18	85	441
Film-holder	E. G. Thomas	29,112	July 26	84	644
Film-holder	E. G. Thomas	29,317	Sept. 6	84	1578
Filter-cap	W. P. M. Braun	28,267	Feb. 8	82	887
Finger-board guide	M. L. Altop	29,045	July 12	84	305
Finishing roll or cylinder	J. Hall	29,343	Sept. 13	84	1723
Fire-box lining	W. Thompson	28,289	Feb. 15	82	1041
Fire-box lining	W. Thompson	28,290	Feb. 15	82	1041
Fire-hose-wagon body	G. Streich	28,577	May 10	83	902
Fire-kindler	W. B. Broderick	28,404	Mar. 22	82	1816
Fireplace-front	W. C. Camenisch	29,716	Nov. 22	85	1217
Fire-pot lining	J. W. Kennedy	29,184	Aug. 9	84	974
Flag-holder	D. Lake and L. S. Conley	29,051	July 12	84	306
Flag-holder	E. Pincus	29,229	Aug. 16	84	1133
Flag or banner	J. F. Duke	29,052	July 19	84	497
Flag or similar article	J. M. Kennedy	29,053	July 19	84	497
Flagstaff	T. J. Whitney and I. Haaz	29,194	Aug. 9	84	975
Flagstaff-holder arm	F. H. Ferris	29,228	Aug. 16	84	1133
Flour-tank	W. H. Curtice	28,718	May 24	83	1202
Flower-pot brackets. Plate for	A. B. Hendryx	28,377	Mar. 15	82	1682
Fork. Carving	C. Richardson	28,444	Apr. 5	83	151
Fork. Carving	C. Richardson	28,445	Apr. 5	83	151
Fork. Carving	C. Richardson	28,446	Apr. 5	83	151
Fork-crown	P. S. Reid	29,874	Dec. 27	85	2079
Fork tip. Hay	G. F. Carey	29,068	July 19	84	500
Forks, &c. Handle for	H. L. Wallace	28,155	Jan. 11	82	331
Fringe	C. F. Buschner	28,621	May 10	83	910
Fringe	F. H. Maurer	28,824	June 7	83	1505
Fringe	A. C. Oehrle	29,348	Sept. 13	84	1724
Fringe	A. C. Oehrle	29,349	Sept. 13	84	1724
Fruit-picker	E. A. Straub	29,549	Oct. 25	85	605
Fruit-seeder disk	J. W. Brown, Jr	29,030	July 12	84	302
Fruit-seeding-machine frame	J. W. Brown, Jr	28,607	May 10	83	907
Fulcrum-post	C. W. Hart	29,898	Dec. 27	85	2083
Funnel and measure. Combined	A. Brubaker	29,377	Sept. 20	84	1861
Furnace bar grate-support	J. W. Holaday	28,852	June 14	83	1650
Furniture-foot	F. Stewart	28,709	May 24	83	1200
Fuse-box	W. F. Bossert	29,344	Sept. 13	84	1723
Fuse-carrier	W. J. Newton	28,471	Apr. 12	83	290
Gage-tool	E. Emley	28,398	Mar. 22	82	1815
Game-board	L. C. Belz	29,482	Oct. 11	85	284
Game-board	H. Boggis	28,714	May 24	83	1201
Game-board	R. E. Boyle	29,081	July 19	84	503
Game-board	J. Fax	28,388	Mar. 15	82	1685
Game-board	W. B. Giles	29,115	July 26	84	645
Game-board	M. Goldstein	29,005	July 5	84	139
Game-board	W. Haug	29,688	Nov. 15	85	1073
Game-board	C. S. Hinds	29,747	Nov. 29	85	1394



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Design.	Name.	No.	Date.	Official Gazette:	
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Game-board	M. R. Jewell	29,320	Sept. 6	84	1579
Game-board	S. H. Limbert	28,823	June 7	83	1505
Game-board	R. W. Lindsay	28,674	May 17	83	1063
Game-board	W. Miles	29,321	Sept. 6	84	1579
Game-board	E. and J. Minetto	28,673	May 17	83	1063
Game-board	J. P. Nolan	29,496	Oct. 18	85	443
Game-board	G. S. O'Flynn	29,774	Dec. 6	85	1579
Game-board	G. S. Parker	28,904	June 21	83	1793
Game-board	W. G. Perry	29,748	Nov. 29	85	1394
Game-board	R. M. Riley and J. E. Fisher	29,196	Aug. 9	84	975
Game-board	G. L. Rotharmel and C. H. Dodge	29,082	July 19	84	503
Game-board	L. D. Shears	29,454	Oct. 4	85	145
Game-board	G. L. Smith	28,338	Mar. 1	82	1412
Game-board	C. F. Stein	29,649	Nov. 8	85	929
Game-board	C. Van Cappellen	28,438	Mar. 29	82	1983
Game-board	F. B. Wells	29,250	Aug. 16	84	1137
Game-board	E. L. Williams	29,650	Nov. 8	85	929
Game device	A. W. Standing	29,195	Aug. 9	84	975
Garden implement	A. R. Fontes	28,273	Feb. 8	82	888
Garment, Combination	J. H. Fleisch	29,425	Sept. 27	84	2012
Garment-fastener	M. Rubin	28,245	Feb. 1	82	743
Garment-hanger	A. M. Walker and F. C. Jackson	28,448	Apr. 5	83	152
Garment-hanger	A. M. Walker and F. C. Jackson	28,449	Apr. 5	83	152
Garment pattern-plate	F. Nauds	28,880	June 14	83	1655
Garment-rack	E. Leger	28,770	May 31	83	1339
Garment-supporter holder	D. H. Warner	28,303	Feb. 15	82	1044
Garment-supporter holder	D. H. Warner	29,226	Aug. 16	84	1132
Garment-supporter plate	L. D. Draper	28,467	Apr. 12	83	289
Garment-supporter trimming	G. E. Adams	28,879	June 14	83	1654
Garter	G. H. Blakesley	29,204	Aug. 9	84	977
Gas-burner	E. J. Daschbach	28,699	May 24	83	1199
Gas-burner	E. J. Daschbach	29,839	Dec. 20	85	1895
Gas-burner	F. W. Law	28,803	June 7	83	1501
Gas-burner tube, Incandescent	L. T. Alton	28,184	Jan. 18	82	454
Gas check and regulator	W. B. Hoyt	28,185	Jan. 18	82	454
Gas-fixture	H. Clayton	29,733	Nov. 29	85	1392
Gas-fuel burners, Shell for	F. P. Gillespie	28,597	May 10	83	905
Gas-fuel burners, Shell for	F. P. Gillespie	28,598	May 10	83	906
Gas-receiver	R. M. Dixon	29,174	Aug. 9	84	972
Gear-case	J. S. Copeland	28,432	Mar. 29	82	1982
Generating-set frame	F. Haudel	29,375	Sept. 20	84	1860
Glass or silver ware, Ornamental border for	B. P. Jenks	29,787	Dec. 13	85	1728
Glass pitcher, &c.	J. Wilson	28,282	Feb. 15	82	1040
Glass receptacle	A. Snow, Jr.	28,178	Jan. 18	82	453
Glass receptacle	A. Snow, Jr.	28,179	Jan. 18	82	453
Glass, Sheet or plate	W. Buttler	28,847	June 14	83	1649
Glass surface ornamentation	A. D. Brogan and A. M. Malloch	28,846	June 14	83	1649
Glass vessel	A. H. Heisey	28,180	Jan. 18	82	453
Glass vessel	A. H. Heisey	28,181	Jan. 18	82	453
Globe	M. W. Gleason	28,689	May 24	83	1197
Globe or similar article	A. Howard	29,128	Aug. 2	84	797
Glove	W. T. Lintner and J. T. Dowdall	29,086	July 19	84	504
Glove-fastener spring	E. J. Schuyler	28,533	May 3	83	737
Glove or similar article	W. T. Lintner and J. T. Dowdall	29,910	Dec. 27	85	2086
Golf-club protector	E. W. Harral	29,634	Nov. 8	85	925
Gong	F. Frank	29,248	Aug. 16	84	1137
Grass and weed cutter	J. K. Painter	28,748	May 31	83	1335
Grate attachment	G. R. Connally	29,442	Oct. 4	85	143
Grate-bar	P. C. Strahl	28,985	July 5	84	135
Grate-bar	A. W. Walker	28,361	Mar. 8	82	1553
Grate-front	J. F. Hewitt	28,821	June 7	83	1504
Grave-coping	S. B. Rickords	29,860	Dec. 20	85	1899
Grinder base, Sickle	H. W. Bolens	28,569	May 10	83	901
Grinding-disk for mills	J. W. Brown, Jr.	29,029	July 12	84	302
Grinding machines, Guide for flat	C. Mills	28,423	Mar. 29	82	1980
Grinding machines, Guide for flat	C. Mills	28,424	Mar. 29	82	1980
Guitar-body or similar article	J. Hagberg	29,666	Nov. 15	85	1070
Gum, &c. Cake of chewing	E. S. Haft	28,207	Jan. 25	82	589
Hair-crimper member	R. E. Conlin	28,796	June 7	83	1501
Hair-holder	N. M. Boyajian	29,564	Nov. 1	85	762
Hair-pin	V. F. and M. Maidhof	28,411	Mar. 29	82	1978
Ham-boiling wrapper	W. E. T. Merrill and A. Lepper	29,510	Oct. 18	85	446
Hame rein-guide bracket	T. W. Attaway	29,242	Aug. 16	84	1136
Hammer	G. W. Hill	29,021	July 12	84	301
Hammer	A. W. Hutfaf	28,942	June 28	83	1982
Hammer-body	G. K. Young	28,662	May 17	83	1061
Hammock	I. E. Palmer	29,455	Oct. 4	85	145
Hammock-support	I. E. Palmer	29,422	Sept. 27	84	2012
Hand-glass	F. H. La Pierre	28,684	May 24	83	1196
Handle for manicure or similar articles	T. W. Foster	28,528	May 3	83	737
Handle-strip for vessels	A. R. Pritchard	28,324	Mar. 1	82	1409
Harrow-frame	C. S. Sharp	28,814	June 7	83	1503
Harness-D	S. H. Hull	29,335	Sept. 13	84	1721
Harness-dee	S. H. Hull	28,145	Jan. 11	82	329
Harness gag-runner	F. F. Conner	28,235	Feb. 1	82	741
Harness-loop	W. A. Schleicher, M. Lewis, and H. C. Swan	28,982	July 5	84	135
Harness-slide D	J. Gordin	29,730	Nov. 29	85	1391
Harp-guitar frame	C. Knutsen	28,300	Feb. 15	82	1043
Harrow-frame	G. W. Ream	29,314	Sept. 6	84	1577
Harrow-frame	G. W. Ream	29,315	Sept. 6	84	1578
Harrow-frame	G. W. Ream	29,711	Nov. 22	85	1216
Harrow-tooth, Curved spring	E. E. Whipple	29,157	Aug. 2	84	802
Hassock	G. B. Bartlett	29,760	Dec. 6	85	1577
Hat	F. C. Eckhardt	29,006	July 5	84	139
Hat	S. C. Townsend	29,099	July 26	84	641



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Design.	Name.	No.	Date.	Official Gazette.	
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Hat-fastener	J. H. Clarke	28,791	June 7	83	1500
Hat-marker	J. N. Harson	28,258	Feb. 8	82	885
Hat or bonnet trimming	I. A. Schwarz	28,407	Mar. 22	82	1816
Hat sweat-band	G. J. Metzger	29,566	Nov. 1	85	763
Hatchet	P. Ott	29,146	Aug. 2	84	800
Heater	F. S. Weller	28,603	May 10	83	907
Heater case. Electric-	J. F. McElroy	28,327	Mar. 1	82	1410
Heaters. Coil-pipe for water-	R. Schlumberger	28,650	May 17	83	1059
Heaters. Front plate for electric	E. E. Gold	29,891	Dec. 27	85	2082
Heating-coil	R. H. Horne	29,890	Dec. 27	85	2082
Heel	W. T. Summers	29,452	Oct. 4	85	145
Heel-counter. Boot or shoe	G. Morton and A. J. Lyons	29,750	Nov. 29	85	1395
Heel-plate	E. Lehman	29,453	Oct. 4	85	145
Heel-plate	C. Rystrom	29,908	Dec. 27	85	2085
Hinge	F. E. Kohler	28,418	Mar. 29	82	1979
Hinge. Butt	W. H. Anderson	29,381	Sept. 20	84	1862
Hinge-leaf	A. S. Held	28,322	Mar. 1	82	1409
Hinge member	L. P. Baitinger and T. H. Berkley	29,516	Oct. 18	85	447
Hinge-post	J. J. Zimmele	28,891	June 21	83	1791
Hoe	H. C. Dowd	28,811	June 7	83	1503
Hoe	F. H. Foster	28,429	Mar. 29	82	1981
Hoe. Garden-	W. F. Ludwick	28,490	Apr. 19	83	438
Hoe. Weeding-	M. R. Vinson	29,389	Sept. 20	84	1863
Hoeing-wheel. Agricultural	J. A. McGuire and R. S. Williams	29,342	Sept. 13	84	1722
Hog-ring	W. D. Linton and H. W. Farmer	29,107	July 26	84	643
Holdback-iron. Thill	G. W. Fletcher	28,651	May 17	83	1059
Home trainer attachment	P. A. Myers	29,347	Sept. 13	84	1724
Hoof-pad	E. D. Flint	29,825	Dec. 20	85	1893
Hook	P. Heaton	28,724	May 31	83	1331
Hook	E. R. Morton	29,152	Aug. 2	84	801
Hook. Back-band	F. A. Gurley	28,348	Mar. 8	82	1551
Hook. Back-band	F. A. Gurley	28,349	Mar. 8	82	1551
Hook. Belaying-	F. A. Thomas	29,041	July 12	84	304
Hook. Belt-	I. M. Field	28,723	May 31	83	1331
Hook. Belt-	M. T. Morrell	28,347	Mar. 8	82	1551
Hook. Check-	T. N. Martin	29,382	Sept. 20	84	1862
Hook. Garment-clasp	F. A. Ives	28,561	May 10	83	900
Hook. Garment-fastener	A. Eckstein	28,535	May 3	83	737
Hook. Hame-	M. H. McMannon and A. H. Powers	29,153	Aug. 2	84	801
Hook. Hame-	E. Wilhelm	29,267	Aug. 23	84	1277
Hook or rack. Garment	L. C. Brough	29,729	Nov. 29	85	1391
Hook shell. Hat-	J. R. Hirsh	29,565	Nov. 1	85	763
Hook. Snap	F. J. Wilson	29,474	Oct. 11	85	283
Hook. Snap	F. Wood	28,694	May 24	83	1198
Hooks. Blank for garment-fastening	J. Wheatfield	28,978	July 5	84	134
Hooks. Clip-blank for cant-	W. B. Prouty	29,518	Oct. 18	85	447
Hoop	C. H. Jacobs	29,039	July 12	84	304
Hoop. Barrel-	J. G. and J. M. Bauer	28,704	May 24	83	1199
Horseshoe	W. J. Bradley and J. Mathisen	29,712	Nov. 22	85	1216
Horseshoe	H. Paar	29,414	Sept. 27	84	2010
Horseshoe-calk	T. J. Gilbride	28,853	June 14	83	1650
Horseshoe-calk	J. Simonis and H. Lohrke	29,896	Dec. 27	85	2083
Horseshoe-calk	J. R. Williams	29,793	Dec. 13	85	1730
Horseshoe-pad	H. H. F. Davie	29,713	Nov. 22	85	1216
Horseshoe-pad	R. Whitaker	29,580	Nov. 1	85	766
Horseshoe-pad	R. Whitaker	29,581	Nov. 1	85	766
Hose-coupling member	R. M. Dixon	29,148	Aug. 2	84	800
Hose-mending device	M. S. Levering	28,544	May 3	83	738
Hose-reel spool	H. E. Donnell	29,104	July 26	84	643
Hose-supporter	L. Neuberger	29,690	Nov. 15	85	1074
Hose-supporter band or belt	S. A. O'Byrne	29,777	Dec. 6	85	1580
Hot-air furnace	G. M. Edison and J. Wheeler	29,295	Aug. 30	84	1430
Hot-air register	A. D. Hatfield	28,384	Mar. 15	82	1684
Hot-water holder	W. Barchard	29,026	July 12	84	301
Hub-band	C. E. Pancost	28,400	Mar. 22	82	1505
Hub. Wheel-	C. E. Roberts	28,993	July 5	84	1505
Ice and refrigerating machine frame	R. D. Holabird	28,897	June 21	83	1792
Ice-cream-tub cover	A. H. Ives	29,411	Sept. 27	84	2009
Ice-shaver	A. B. Clark	28,988	July 5	84	136
Impeller	J. T. Wilkin	29,762	Dec. 6	85	1578
Index needle or hand	E. Weston	28,392	Mar. 22	82	1814
Index needle or hand	E. Weston	28,393	Mar. 22	82	1814
Indicator	W. C. Cousins	29,492	Oct. 18	85	442
Indicator face-plate	O. O. Ozias	28,933	June 28	83	1981
Ingot. Metal	W. H. Baker	28,455	Apr. 5	83	153
Ink-well	W. Bowman	29,361	Sept. 20	84	1858
Ink-well	G. Francis	29,362	Sept. 20	84	1858
Instep-stiffener	L. Hare	28,800	June 7	83	1501
Insulator	L. McCarthy	28,355	Mar. 8	82	1552
Insulator	L. McCarthy	28,356	Mar. 8	82	1552
Insulator	J. L. Morgan	29,782	Dec. 6	85	1580
Insulator-cap	B. Willard	28,981	July 5	84	135
Insulator-plate	W. B. McDonald	28,743	May 31	83	1334
Insulator. Third-rail	E. M. Hewlett	29,741	Nov. 29	85	1393
Ironing-board	W. H. Dana	28,202	Jan. 18	82	457
Ironing-board	E. F. Rowse and H. E. Johns	28,612	May 10	83	908
Jar	C. T. Richmond	29,534	Oct. 25	85	603
Jar	J. Schies	29,032	July 12	84	303
Jar-cap	W. E. Sharps	28,980	July 5	84	134
Jar-cover	G. H. Gray	29,674	Nov. 15	85	1071
Jar. Milk-	C. T. Nightingale	29,673	Nov. 15	85	1071
Jar. Packing-	R. Felscher	28,613	May 10	83	909
Jar stand. Dispensing-	H. A. Miner	28,117	Jan. 4	82	176
Jar. Wooden	W. C. Estes	28,637	May 17	83	1057
Jardinière	W. M. Green	28,638	May 17	83	1058
Jewel-case	D. M. Smith	29,319	Sept. 6	84	1578



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Design.	Name.	No.	Date.	Official Gazette.	
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Jigs. Tank for mineral or ore-washing	C. J. Hodge	29,684	Nov. 15	85	1073
Jug	S. Starkey	29,468	Oct. 11	85	282
Key	H. R. Towne	29,786	Dec. 13	85	1728
Keyboard	E. A. Fletcher	29,497	Oct. 18	85	443
Kite-frame	H. E. Dantzebecher	28,905	June 21	83	1793
Knife	W. C. Meyer	28,530	May 3	83	737
Knife	E. B. Peck	28,925	June 28	83	1979
Knife-blade	J. B. and A. S. Bowman	28,311	Feb. 22	82	1202
Knife. Chopping	S. C. Renner	28,608	May 10	83	908
Knife for opening seams	P. J. McShane	28,798	June 7	83	1501
Knife, &c. Meat	H. E. Barden	28,186	Jan. 18	82	454
Knife-wheel	O. E. Bray	28,945	June 28	83	1983
Knob for vessels	C. A. Cuppia	28,260	Feb. 8	82	885
Label	H. H. Jacobus	29,456	Oct. 4	85	146
Label	C. A. Speakman	29,721	Nov. 22	85	1218
Label	N. Witsch	29,755	Dec. 6	85	1576
Label	N. Witsch	29,865	Dec. 27	85	2077
Lace-fastener	F. Egge	28,302	Feb. 15	82	1043
Lace fastening. Shoe	B. Johnson	25,793	June 7	83	1500
Ladder-bracket. Metal	H. E. Howard	29,735	Nov. 29	85	1392
Ladder-hook	G. W. Slack	28,489	Apr. 19	83	438
Lamp	C. W. Iden	28,843	June 14	83	1648
Lamp	C. W. Iden	28,844	June 14	83	1648
Lamp-base	A. L. Baron	29,173	Aug. 9	84	972
Lamp. Bicycle	F. L. White	29,269	Aug. 23	84	1277
Lamp-body	C. Bergener	28,805	June 7	83	1502
Lamp-body	W. P. Crary	29,789	Dec. 13	85	1729
Lamp-body	A. C. Davison	29,672	Nov. 15	85	1071
Lamp-body	J. M. Herman	29,535	Oct. 25	85	603
Lamp-body	C. F. Linsley and R. F. Crooke	29,223	Aug. 16	84	1132
Lamp-body	F. K. Phillips	28,482	Apr. 19	83	436
Lamp-body	W. A. Rayment	28,735	May 31	83	1333
Lamp-body	C. J. Seiter	28,306	Feb. 22	82	1201
Lamp-body	G. Weiss	29,365	Sept. 20	84	1859
Lamp-body	F. L. White	29,406	Sept. 27	84	2009
Lamp-body	C. L. Zimmerman	29,568	Nov. 1	85	763
Lamp body. Bicycle	G. Havell and A. G. Williams	28,592	May 10	83	905
Lamp-bracket	W. F. Goeltz	29,407	Sept. 27	84	2009
Lamp bulb. Electric	E. Miller	28,452	Apr. 5	83	152
Lamp bulb. Electric	E. Miller	28,453	Apr. 5	83	152
Lamp bulb. Incandescent	J. T. Lister	28,931	June 28	83	1981
Lamp-burner	F. W. Dressel	28,417	Mar. 29	82	1979
Lamp-burner body	J. Lines	29,670	Nov. 15	85	1070
Lamp-case	F. E. Snow	28,595	May 10	83	905
Lamp-casing	R. Fleming	29,301	Sept. 6	84	1575
Lamp casing. Arc	R. Scheffbauer	29,893	Dec. 27	85	2082
Lamp-chimney	G. W. Blair	29,881	Dec. 27	85	2080
Lamp-chimney	A. B. Powers	29,671	Nov. 15	85	1071
Lamp-chimney	E. J. S. Van Houten	28,183	Jan. 18	82	454
Lamp-chimney holder	L. J. Atwood	29,732	Nov. 29	85	1391
Lamp chimney. Night	L. O. Schuetz and B. G. Sherman	29,061	July 19	84	499
Lamp-chimney protector	J. Wuest	29,289	Aug. 30	84	1429
Lamp. Cycle	F. B. Waibel and H. Meytrott	29,790	Dec. 13	85	1729
Lamp cylinder-cap. Arc	C. E. Harthan	29,632	Nov. 8	85	925
Lamp. Electric	G. R. MacIntire	29,366	Sept. 20	84	1859
Lamp. Electric	G. R. MacIntire	29,367	Sept. 20	84	1859
Lamp. Electric	G. R. MacIntire	29,368	Sept. 20	84	1859
Lamp. Electric	G. R. MacIntire	29,369	Sept. 20	84	1859
Lamp-holder	H. O. Müller	28,734	May 31	83	1333
Lamp. Miner's	E. F. Long	28,594	May 10	83	905
Lamp-shade holder. Incandescent	R. Faries	28,596	May 10	83	905
Lamp stand or holder	C. S. Gerritson	28,804	June 7	83	1502
Lamp. Vehicle	J. Zimmerman and F. L. White	28,593	May 10	83	905
Lamps, &c. Globe for	H. D. McFaddin	29,494	Oct. 18	85	443
Land-roller	G. W. Ream	29,476	Oct. 11	85	283
Landside for plows	G. W. Ream	28,332	Mar. 1	82	1411
Last	J. W. Bowen	29,161	Aug. 2	84	803
Latch-bolt	W. H. Taylor	29,384	Sept. 20	84	1862
Latch-case. Rim	H. R. Towne	29,895	Dec. 27	85	2083
Latch. Door	R. H. Martin	28,540	May 3	83	738
Latch-operating lever	W. H. Taylor	29,385	Sept. 20	84	1862
Latch-operating lever	W. H. Taylor	29,386	Sept. 20	84	1862
Leather-splitting machines. Feed-plate for	M. M. Whipple, 2d	29,477	Oct. 11	85	284
Legging	A. S. Huntington	29,205	Aug. 9	84	977
Legging	A. Sessler	29,691	Nov. 15	85	1074
Letter. Sign	F. Haettel	28,955	June 28	83	1985
Lever. Jack	G. F. Hutchins	28,579	May 10	83	903
Lightning-arrester	H. C. Wirt	29,370	Sept. 20	84	1859
Lightning-arrester	H. C. Wirt	29,371	Sept. 20	84	1860
Liniment. Distributer for applying	M. T. Morgan	29,731	Nov. 29	85	1391
Lime-light jet	J. A. Mantz	29,149	Aug. 2	84	800
Lip guard and protector	A. C. Tebbetts	29,467	Oct. 11	85	282
Lock-clasp	H. G. Price	28,867	June 14	83	1652
Locks. Seal-plate for seal	J. W. Stevens	28,696	May 24	83	1198
Locket	T. J. Zeltmacher	28,678	May 24	83	1195
Looking-glass frame	B. F. Stauber	28,616	May 10	83	909
Loving-cup	L. P. Cook	28,732	May 31	83	1332
Lubricator-body	D. H. Roberts	28,653	May 17	83	1060
Lubricator-body	D. H. Roberts	28,654	May 17	83	1060
Lunch and parcel carrier	A. C. Dumontier	28,241	Feb. 1	82	742
Machine-leg	N. Slotkin	28,426	Mar. 29	82	1980
Machine-plate	N. Du Brul	28,657	May 17	83	1060
Magnet frame. Field	E. D. Priest	29,372	Sept. 20	84	1860
Mailing-case. Letter-deposit	C. B. Gifford	29,888	Dec. 27	85	2081
Mandolin	E. B. Baehr	28,340	Mar. 8	82	1550
Manhole-cover	T. P. Greger	29,312	Sept. 6	84	1577



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Manhole-frame	T. P. Greger	29,213	Sept. 6	84	1577
Manicure-tool	M. E. Schilz	29,019	July 12	84	300
Mantel	J. A. Rose	28,370	Mar. 8	82	1555
Mat	L. D. Parker	29,459	Oct. 4	85	146
Match-box	G. Gomer	28,177	Jan. 18	82	452
Match-box	J. J. B. McElrath	29,435	Oct. 4	85	142
Match-box	J. M. Riedel and F. F. Metzger	29,091	July 26	84	640
Match-safe	W. G. Van Auken	29,818	Dec. 20	85	1892
Mattress	H. Ives	29,001	July 5	84	138
Measure, Dry	J. A. Dieffenbacher	28,736	May 31	83	1333
Measuring vessel	C. G. Schenck	29,619	Nov. 8	85	923
Meat-block	W. J. Huff	28,815	June 7	83	1503
Medal	G. G. Greenburg	29,528	Oct. 25	85	602
Medal	H. O'Donnell	28,965	July 5	84	132
Medal or similar article	O. T. Prestholdt	29,812	Dec. 20	85	1891
Medicated air-head	R. Morris	29,140	Aug. 2	84	799
Medicine-case and desk	W. S. Cooper	28,710	May 24	83	1201
Metal-worker's stock	C. D. Graff	28,341	Mar. 8	82	1550
Metallic border	D. A. Loeser	28,469	Apr. 12	83	290
Meter-case	W. D. Marks	28,309	Feb. 22	82	1207
Milk-cooler	W. D. Sherman	29,509	Oct. 18	85	446
Milling-machine column	O. Tyberg	28,123	Jan. 4	82	178
Mirrors, &c. Back for hand-	W. C. Codman	29,530	Oct. 25	85	602
Monument	T. J. Owens	29,724	Nov. 22	85	1218
Monument	W. H. Perry	28,125	Jan. 4	82	171
Monument	E. O. Townsend	29,861	Dec. 20	85	1899
Monument	E. O. Townsend	29,862	Dec. 20	85	1899
Mop or broom holder	H. King	28,233	Feb. 1	82	742
Motor and fan case	H. A. Balcome	29,374	Sept. 20	84	1860
Motor-float	T. G. Bowick	29,151	Aug. 2	84	801
Mowing-machine section-knife	W. M. Brinkerhoff	28,456	Apr. 5	83	153
Muff	I. Comonn	29,356	Aug. 23	84	1275
Muff	M. W. Judenfreind	29,775	Dec. 6	85	1580
Mush, Loaf of prepared	J. H. McLean	28,242	Feb. 1	82	740
Musical-instrument casing	C. J. Reed	29,822	Dec. 20	85	1893
Mustache-guard	E. C. Donaldson	29,059	July 19	84	498
Nail	E. M. Sweeny	29,283	Aug. 30	84	1428
Nail-file	J. V. B. Parkes	29,561	Nov. 1	85	762
Nail-files, &c. Handle for	W. C. Fisher, Jr.	29,663	Nov. 15	85	1069
Nail-files, &c. Handle for	T. W. Foster	29,262	Aug. 23	84	1276
Nail-files or similar articles. Handle for	F. H. La Pierre	29,465	Oct. 11	85	282
Nail-files or similar articles. Handle for	J. Theobald	29,433	Oct. 4	85	141
Nail or spike	W. M. Hanline	28,287	Feb. 15	82	1042
Napkin, Child's	E. M. Yarrington and T. Hall	28,778	May 31	83	1341
Necktie	W. J. Carter and G. J. Holmes	29,911	Dec. 27	85	2086
Necktie-fastener	A. H. Buell	29,871	Dec. 27	85	2078
Necktie-holder	F. L. Churchill	28,116	Jan. 4	82	170
Necktie-retainer	J. H. Sheets	28,977	July 5	84	134
Necktie-shield	F. H. Isaacs	28,794	June 7	83	1500
Necktie-tip	I. Noar	29,488	Oct. 18	85	442
Nipple, Slip-	C. T. Pratt	29,797	Dec. 13	85	1730
Nozzle	J. A. Thomas and W. W. Driscoll	28,692	May 24	83	1198
Nut	C. B. von Biedenfeld	28,212	Jan. 25	82	596
Nut-lock	H. Larew	29,517	Oct. 18	85	447
Nut-lock or fastener-bar	I. Y. Baringer	29,834	Dec. 20	85	1895
Nut-lock washer	E. T. Connor	28,951	June 28	83	1984
Official certificate	J. F. Grant	28,782	June 7	83	1499
Oil-can	J. W. Cushman	28,225	Feb. 1	82	740
Oil-cup or oiler	J. W. Cushman	29,076	July 19	84	502
Package-holder	W. S. Seymour	29,333	Sept. 13	84	1721
Packing-ring	E. Armstrong and C. M. Siefken	28,198	Jan. 18	82	456
Padlock-case	C. H. Bridgen	28,224	Feb. 1	82	740
Padlock-case	H. G. Voight	29,701	Nov. 22	85	1214
Pail	E. J. Joy	28,326	Mar. 1	82	1409
Pan, Frying-	J. K. Miller	28,363	Mar. 8	82	1553
Panel, Illuminated	H. L. Jenkins	29,908	June 21	83	1794
Paper bag	A. Wellhouse	28,240	Feb. 1	82	742
Paper, Cone for roll-	A. Green	29,264	Aug. 23	84	1276
Paper pattern	L. J. W. Wall	28,712	May 24	83	1201
Paper, Wall-	A. Martin	29,603	Nov. 1	85	771
Paper, Wall-	A. Martin	29,604	Nov. 1	85	771
Paper, Wall-	H. Wearne	29,655	Nov. 8	85	930
Paper, Wall-	H. Wearne	29,656	Nov. 8	85	930
Paper, Wall-	H. Wearne	29,657	Nov. 8	85	930
Paper, Wall-	H. Wearne	29,658	Nov. 8	85	931
Paper, Wall-	H. Wearne	29,659	Nov. 8	85	931
Paper, Wall-	H. Wearne	29,660	Nov. 8	85	931
Paper, Wall-	H. Wearne	29,694	Nov. 15	85	1074
Paper-weight	H. C. Woglom	29,532	Oct. 25	85	602
Parasol	O. M. Arnold	28,464	Apr. 12	83	289
Parers, Frame for fruit or vegetable	F. B. Rising	28,705	May 24	83	1200
Paring-knife	M. E. Hadden	29,378	Sept. 20	84	1861
Pattern-chart	J. Marsden	29,197	Aug. 9	84	976
Pattern-chart	J. Marsden	29,198	Aug. 9	84	976
Pattern-chart	J. Marsden	29,199	Aug. 9	84	976
Pattern-chart	J. Marsden	29,200	Aug. 9	84	976
Pattern-chart	J. Marsden	29,201	Aug. 9	84	977
Pattern-chart	J. Marsden	29,596	Nov. 1	85	769
Pattern-chart	J. Marsden	29,597	Nov. 1	85	769
Pattern-chart	J. Marsden	29,598	Nov. 1	85	770
Pattern-chart	J. Marsden	29,599	Nov. 1	85	770
Pattern-chart	J. Marsden	29,600	Nov. 1	85	770
Pattern-chart	J. Marsden	29,601	Nov. 1	85	770
Pattern-chart	J. Marsden	29,602	Nov. 1	85	771
Paving-block mold	J. L. Adams	28,715	May 24	83	1202
Pawl, Gravity-	C. L. Fowler	29,902	Dec. 27	85	2084



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Pencil-case barrel.....	L. C. Fairchild.....	28,838	June 14	83	1647
Pencil-holder.....	N. D. Ingram.....	28,559	May 10	83	899
Pencil. Lead.....	B. B. Goldsmith.....	28,558	May 10	83	899
Pessary.....	W. C. Halleck.....	29,408	Sept. 27	84	2009
Picture-frame.....	J. V. Ridgway.....	29,285	Aug. 30	84	1428
Picture-frame.....	F. Seidel.....	29,572	Nov. 1	85	764
Picture frame or mount.....	M. A. T. Gillbee.....	28,806	June 7	83	1502
Picture frame or mount.....	M. A. T. Gillbee.....	28,807	June 7	83	1502
Picture-mount.....	J. P. Odgers.....	28,711	May 24	83	1201
Picture or mirror frame.....	A. M. and W. H. Gardner, Jr.....	28,808	June 7	83	1502
Pin.....	W. Melcher.....	28,837	June 14	83	1647
Pin or needle card.....	R. Neuss.....	28,726	May 31	83	1331
Pin or similar article.....	J. B. Moore.....	29,119	Aug. 2	84	795
Pin or similar article. Scarf.....	D. R. Corbin.....	29,055	July 19	84	498
Pin-package container.....	W. Straw.....	28,971	July 5	84	133
Pin. Scarf.....	J. Polak.....	29,402	Sept. 27	84	2008
Pin. Stick.....	C. B. Sheldon.....	29,612	Nov. 8	85	921
Pipe.....	J. Becker.....	28,787	June 7	83	1499
Pipe.....	J. R. Wengler.....	29,363	Sept. 20	84	1858
Pipe bowl. Tobacco.....	M. J. Meyer and O. W. Schmidt.....	29,664	Nov. 15	85	1070
Pipe-cleaner.....	J. Pilkington.....	29,191	Aug. 9	84	975
Pipe-coupling member.....	W. C. Savage.....	28,656	May 17	83	1060
Pipe-covering pattern.....	C. Brooks.....	28,573	May 10	83	901
Pipe-fastener.....	S. C. Cary.....	28,422	Mar. 29	82	1980
Pipe. Tobacco.....	F. Abraham.....	29,326	Sept. 13	84	1720
Pitcher.....	H. Brunt.....	29,878	Dec. 27	85	2079
Pitcher.....	F. E. Burley.....	29,757	Dec. 6	85	1577
Pitcher.....	J. H. Croskey.....	29,364	Sept. 20	84	1858
Pitcher.....	C. E. Haviland.....	28,970	July 5	84	133
Planter-bracket.....	G. W. Wooley.....	28,948	June 28	83	1984
Planter hopper. Seed.....	J. A. Everitt.....	28,660	May 17	83	1060
Plate.....	C. J. Ahrenfeldt.....	29,169	Aug. 9	84	971
Plate.....	H. Brunt.....	28,840	June 14	83	1647
Plate-keeper shell.....	B. W. Burdick.....	28,762	May 31	83	1338
Plate-lifter.....	F. H. Hamblin.....	28,220	Jan. 25	82	592
Plate or dish.....	C. E. Haviland.....	28,926	June 28	83	1979
Plow colter attachment.....	J. W. Burt.....	29,547	Oct. 25	85	605
Plow-landside.....	G. W. Ream.....	28,360	Mar. 8	82	1553
Plow-point.....	W. F. Ziegler.....	29,444	Oct. 4	85	144
Plowshare.....	G. W. Ream.....	28,329	Mar. 1	82	1410
Plowshare.....	G. W. Ream.....	29,069	July 19	84	500
Plow shin-piece.....	G. W. Ream.....	28,333	Mar. 1	82	1411
Plow shin-piece.....	G. W. Ream.....	28,334	Mar. 1	82	1411
Plow-standard.....	G. W. Ream.....	28,330	Mar. 1	82	1410
Plow-standard.....	G. W. Ream.....	28,331	Mar. 1	82	1411
Plumber's trap.....	L. H. Brinkman.....	28,567	May 10	83	900
Pocket-book or card-case cover.....	J. Mehl, Jr.....	28,170	Jan. 18	82	451
Pocket-book or card-case cover.....	J. Mehl, Jr.....	28,171	Jan. 18	82	451
Pocket-book or card-case cover.....	J. Mehl, Jr.....	28,172	Jan. 18	82	452
Pocket-book or card-case cover.....	J. Mehl, Jr.....	28,173	Jan. 18	82	452
Pocket-book or card-case cover.....	J. Mehl, Jr.....	28,174	Jan. 18	82	452
Portière.....	M. Bernhard.....	29,209	Aug. 9	84	978
Post.....	L. S. Flatau.....	29,897	Dec. 27	85	2083
Post-office cabinet.....	J. H. W. Marriott.....	29,636	Nov. 8	85	926
Post-socket.....	E. A. Patterson.....	29,550	Oct. 25	85	605
Powder-pad.....	J. Marsden.....	29,870	Dec. 27	85	2078
Pressure-gage case.....	R. M. Dixon.....	28,291	Feb. 15	82	1041
Price-indicating chart.....	O. O. Ozias.....	29,095	July 26	84	641
Printer's quoin.....	W. H. O'Brien.....	29,234	Aug. 16	84	1134
Printing-press bracket.....	J. L. Lee.....	28,152	Jan. 11	82	330
Prism-light.....	G. K. Cummings.....	28,218	Jan. 25	82	591
Prism-light.....	L. J. Millet.....	28,909	June 21	83	1794
Puff-box cover.....	T. W. Foster.....	28,527	May 3	83	736
Pulley.....	T. Corscaden.....	29,543	Oct. 25	85	604
Pulley-frame.....	C. H. Ocumpaugh.....	28,397	Mar. 22	82	1815
Pulverizing section. Soil.....	E. E. Porter.....	29,548	Oct. 25	85	605
Pump. Breast.....	O. Bedell.....	29,475	Oct. 11	85	283
Pump-casing and bracket.....	C. Perkes.....	28,379	Mar. 15	82	1683
Pump-curb.....	C. A. Bartliff.....	28,189	Jan. 18	82	455
Pump-curb.....	C. A. Bartliff.....	28,190	Jan. 18	82	455
Pump-head.....	J. W. Brown, Jr.....	28,191	Jan. 18	82	455
Pump head. Rotary.....	R. C. Enyart.....	28,491	Apr. 19	83	438
Pump-housing.....	H. W. Kimes.....	28,546	May 3	83	739
Pump impeller. Rotary.....	R. C. Enyart.....	28,217	Jan. 25	82	591
Punch.....	J. H. Humes.....	28,740	May 31	83	1334
Punch.....	J. H. Humes.....	28,939	June 28	83	1982
Punch-handle.....	J. W. Ivory.....	28,739	May 31	83	1334
Punching-die.....	H. Worthington.....	29,066	July 19	84	500
Push-button.....	M. Guett.....	28,648	May 17	83	1059
Puzzle-block.....	C. Gatewood.....	28,775	May 31	83	1340
Puzzle-board.....	H. C. Fincke.....	29,132	Aug. 2	84	797
Puzzle-board.....	M. Harris.....	29,249	Aug. 16	84	1137
Puzzle-board.....	B. H. Marshall.....	29,906	Dec. 27	85	2085
Puzzle-board.....	T. C. Reid.....	28,143	Jan. 11	82	329
Puzzle-board.....	O. Seelhorst.....	28,774	May 31	83	1340
Puzzle board or box.....	H. R. Butler.....	28,371	Mar. 8	82	1555
Puzzle board or card.....	H. D. Hobson.....	28,773	May 31	83	1340
Puzzle-box.....	R. P. A. Berryman.....	28,316	Feb. 22	82	1203
Puzzle-box.....	H. C. Clarke.....	28,614	May 10	83	909
Puzzle-box.....	E. F. Elmberg.....	28,205	Jan. 18	82	458
Puzzle-box.....	A. J. Hamman.....	28,299	Feb. 15	82	1043
Puzzle-box.....	J. H. McCarville.....	28,958	June 28	83	1985
Puzzle-box.....	O. H. Miller.....	29,648	Nov. 8	85	928
Puzzle-box.....	G. S. Mower.....	29,802	Dec. 13	85	1731
Puzzle-box.....	C. J. Staberg.....	29,905	Dec. 27	85	2085
Puzzle box or case.....	J. T. Schieffelin.....	29,400	Sept. 20	84	1865



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Design.	Name.	No.	Date.	Official Gazette.	
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Puzzle box or case	F. G. Sterling	29,575	Nov. 1	85	765
Puzzle-card	R. Ford	29,856	Dec. 20	85	1898
Puzzle-case	J. H. McNeill	29,495	Oct. 18	85	443
Puzzle game-board	G. A. Wilson	29,855	Dec. 20	85	1898
Quilting-frame stand	B. F. Overton and L. E. Bryant	28,999	July 5	84	138
Rack for toilet articles, jewelry, &c	T. F. Smythe	29,614	Nov. 8	85	922
Radiator	G. M. Cocke and E. Seidel	28,199	Jan. 18	82	457
Radiator	A. H. Fowler	28,604	May 10	83	907
Radiator	A. H. Fowler	29,182	Aug. 9	84	973
Radiator	T. Holland	29,306	Sept. 6	84	1576
Radiator	E. C. Ross	29,551	Oct. 25	85	605
Radiator-section	A. H. Fowler	28,760	May 31	83	1338
Radiator-section	A. H. Fowler	28,761	May 31	83	1338
Radiator-section	T. Holland	29,294	Aug. 30	84	1430
Rail-bending-implement member	D. F. Vaughan	29,742	Nov. 29	85	1393
Rail-bond	F. W. Atkinson	29,743	Nov. 29	85	1393
Rail-chair	W. C. Patterson	29,105	July 26	84	643
Railway-brace	D. Cater	29,448	Oct. 4	85	144
Railway-conduit yoke	F. S. Pearson	29,241	Aug. 16	84	1136
Railway-conduit yoke	F. S. Pearson	29,270	Aug. 23	84	1277
Railway-rail	G. J. Capewell	29,833	Dec. 20	85	1894
Railway-rail	G. B. Taylor and H. B. Nichols	28,848	June 14	83	1649
Railway-spike	D. Butler	29,189	Aug. 9	84	974
Railway splice-bar	W. O. Nelson	29,892	Dec. 27	85	2082
Railway-tie	A. J. West	29,683	Nov. 15	85	1072
Rake head. Lawn	F. E. Kohler	28,812	June 7	83	1503
Rake head. Lawn	F. E. Kohler	28,813	June 7	83	1503
Range	A. W. Walker	28,600	May 10	83	906
Range. Cooking-	A. Alitto	29,145	Aug. 2	84	800
Range. Cooking-	A. V. Fletcher	29,034	July 12	84	303
Razor-blade	A. Graef	29,700	Nov. 22	85	1214
Razor-sack	H. Claus	29,020	July 12	84	300
Receptacle for attachment-plugs	W. T. Pringle	28,698	May 24	83	1199
Reflector	J. L. Creveling	29,471	Oct. 11	85	283
Reflector	P. Pieri	29,791	Dec. 13	85	1729
Refrigerator	A. W. Fligor and W. F. Trice	28,200	Jan. 18	82	457
Regalia-collar	C. H. Lindenberg	28,717	May 24	83	1202
Register-case	C. H. Veeder	29,175	Aug. 9	84	972
Register-case	C. H. Veeder	29,176	Aug. 9	84	972
Register-case	C. H. Veeder	29,177	Aug. 9	84	972
Register-case	C. H. Veeder	29,178	Aug. 9	84	972
Register-case	C. H. Veeder	29,179	Aug. 9	84	973
Register-case	C. H. Veeder	29,222	Aug. 16	84	1132
Rein-guard	W. E. Dippert	28,399	Mar. 22	82	1815
Rein guard and holder	H. Anderson	29,514	Oct. 18	85	447
Rein-guide	N. Johnston	29,627	Nov. 8	85	924
Rein-holder	P. C. Gallaway	29,266	Aug. 23	84	1277
Rein-holder	T. Teeter	29,513	Oct. 18	85	447
Ribbon-clasp	H. A. Jackson	29,063	July 19	84	499
Ring	M. Gebhardt	29,353	Sept. 20	84	1856
Rivet. Ornamental	F. D. March	29,699	Nov. 22	85	1214
Riveting-press frame	E. O. Ware	28,216	Jan. 25	82	591
Rock and ore crusher frame	P. W. Gates	29,155	Aug. 2	84	801
Rock-drill	M. Kramer	29,296	Aug. 30	84	1430
Rolling metal. Roll for	M. G. Worth	29,633	Nov. 8	85	925
Rope and wire holder	F. R. Goode	29,310	Sept. 6	84	1577
Rubber heel	H. C. Peters	28,912	June 21	83	1795
Rubber sole	F. W. Whitcheer	29,857	Dec. 20	85	1898
Rug	A. H. Bennett	28,834	June 7	83	1507
Rug	A. Petzold	28,164	Jan. 11	82	332
Rug	A. Petzold	28,833	June 7	83	1506
Rug	A. Petzold	29,255	Aug. 16	84	1138
Rule. Dressmaker's	L. A. Rines	29,134	Aug. 2	84	798
Sad-iron	J. F. Bless	28,866	June 14	83	1652
Saddle arched plate. Pack-	T. Moore	29,336	Sept. 13	84	1722
Saddle-cushion	W. I. Bunker	28,337	Mar. 1	82	1412
Saddle-cushion	L. Onderdonk	28,459	Apr. 5	83	153
Saddle frame. Pack-	T. Moore	29,298	Aug. 30	84	1430
Saddle-seat	W. I. Bunker	28,583	May 10	83	903
Saddle-seat	W. I. Bunker	28,756	May 31	83	1337
Saddle-seat	W. I. Bunker	28,757	May 31	83	1337
Saddle-seat	W. I. Bunker	28,758	May 31	83	1337
Saddle-seat	W. I. Bunker	28,759	May 31	83	1337
Saddle-seat	W. I. Bunker	28,901	June 21	83	1793
Saddle-seat	W. I. Bunker	28,902	June 21	83	1793
Saddle-seat	G. A. Leech	29,719	Nov. 22	85	1217
Saddle-seat	G. A. Leech	29,720	Nov. 22	85	1217
Saddle-seat	W. I. Bunker	29,745	Nov. 29	85	1394
Saddle-spring	F. A. Hollenbeck	28,336	Mar. 1	82	1412
Saddle-spring	J. A. Hunt	28,479	Apr. 12	83	292
Saddle spring or support	H. A. Lee	28,151	Jan. 11	82	330
Salt-brick holder	E. Barber	29,012	July 5	84	141
Sarcophagus	T. W. Taliatferro	29,287	Aug. 30	84	1429
Sash-holder	W. W. Dampier	29,147	Aug. 2	84	800
Sash-lock rack-bar	N. P. Jonsson	29,233	Aug. 16	84	1134
Sash-pulley shield	C. and E. J. Deitsch	28,114	Jan. 4	82	176
Satchel or bicycle-bag. Toilet-	C. P. Sweeney and H. Wrigley	28,669	May 17	83	1062
Scale base. Coin-	O. O. Ozias	28,946	June 28	83	1983
Scale base-plate	O. O. Ozias	28,947	June 28	83	1983
Scale base-plate	O. O. Ozias	28,266	Feb. 8	82	887
Scale-beam	M. H. Hansen	29,065	July 19	84	499
Scale face-plate. Computing-	W. F. Stimpson	28,310	Feb. 22	82	1202
Scale-frame	C. A. Hoyt	29,889	Dec. 27	85	2082
Scale-frame blank	J. M. Triner	29,135	Aug. 2	84	798
Scale-lever	O. O. Ozias	29,064	July 19	84	499
Scale-pan-supporting stem	J. M. Triner	28,913	June 21	83	1795
Scarf. Neck-	M. Bandler				



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Scissors-handle	T. W. Foster	28,529	May 3	83	737
Scissors member. Manicure	A. Girtanner	28,974	July 5	84	134
Scrapers. Handle socket-piece for hand	W. E. Harriman	28,568	May 10	83	901
Screw-driver	H. E. Swartz	28,691	May 24	83	1198
Seal	H. S. Smila	28,538	May 3	83	738
Seal	E. Tyden	29,413	Sept. 27	84	2010
Seal-body	E. Tyden	29,387	Sept. 20	84	1863
Seal part for seals	E. J. Brooks	28,343	Mar. 8	82	1550
Seal-press case	A. H. Mackinnon	28,799	June 7	83	1501
Seam-rubbing tool	E. F. White	29,766	Dec. 6	85	1578
Seam-welting strip	F. W. Merrick	29,914	Dec. 27	85	2087
Secretary	A. W. Grunwaldt	28,668	May 17	83	1062
Seesaw. Rocking	G. M. Anderson	29,576	Nov. 1	85	765
Separator	F. H. Congdon	28,293	Feb. 15	82	1042
Separator concave-section	J. N. Kailor and M. T. Reeves	28,454	Apr. 5	83	152
Separator or clover-huller tooth	H. C. Clay	29,894	Dec. 27	85	2083
Separator or clover-huller tooth	M. T. Reeves and J. N. Kailor	28,894	June 21	83	1792
Separator-sieve	W. W. Dingee	28,987	July 5	84	135
Sewer-trap	T. J. O'Brien	29,420	Sept. 27	84	2011
Sewer's tree	W. H. Elliott	28,473	Apr. 12	83	290
Sewing-machine frame	L. Onderdonk	29,505	Oct. 18	85	445
Sewing-machine-stand bracket	I. Rudinsky	29,390	Sept. 20	84	1863
Shade	F. J. Heideger	29,129	Aug. 2	84	797
Shade	E. Kaye	29,130	Aug. 2	84	797
Shade-hanger bracket	A. A. K. Berger and F. Herrmann	29,449	Oct. 4	85	144
Shade-holder	E. A. Russell	29,224	Aug. 16	84	1132
Shade-pull	A. Ziegler and J. O. Remington	28,188	Jan. 18	82	454
Shade-roller bearing-screw	J. A. Thomas	28,802	June 7	83	1501
Shade-support	C. H. Page, Jr., and E. L. Brundrett	28,470	Apr. 12	83	290
Sharpener. Scissors	P. J. Ormiston	28,187	Jan. 18	82	454
Sharpening-tool	A. G. Huntley	28,895	June 21	83	1792
Shelf-table	F. Yunk	28,365	Mar. 8	82	1554
Shield and cutter. Combined	E. Koller	28,312	Feb. 22	82	1202
Ship-protector	H. J. B. Gravier	29,635	Nov. 8	85	926
Shipping vessel	G. A. Flaccus	29,438	Oct. 4	85	142
Shirt-bosom	W. M. Andrews	28,480	Apr. 19	83	436
Shirt-front	N. B. Gossard	28,963	June 28	83	1986
Shirt-shield	J. Lockwood	28,439	Mar. 29	82	1983
Shirt-shield	J. Lockwood	28,440	Mar. 29	82	1983
Shirt-shield	J. Lockwood	28,441	Mar. 29	82	1984
Shoe	J. Harding	29,909	Dec. 27	85	2086
Shoe	F. B. Morse	28,247	Feb. 1	82	743
Shoe	W. A. Neely	28,147	Jan. 11	82	329
Shoe-horn clamp	W. E. Gregory	28,468	Apr. 12	83	290
Shoe-plate	M. M. West	28,537	May 3	83	738
Shoe-polisher frame	E. R. List	28,659	May 17	83	1060
Shoe-rack holder	E. E. Canedy	29,334	Sept. 13	84	1721
Shoe-upper	J. H. Clappison	28,277	Feb. 8	82	889
Shoe-upper blank	W. C. Benkert	29,202	Aug. 9	84	977
Show-card holder	J. M. Hill and J. C. Renner	28,238	Feb. 1	82	742
Show-case	B. V. and H. W. Arnstine	29,035	July 12	84	303
Shutter-bower bracket	C. Zimmerman	28,285	Feb. 15	82	1040
Shutter-brace	C. Zimmerman	29,337	Sept. 13	84	1722
Shutter-lock	H. Zimmerman	28,284	Feb. 15	82	1040
Sickle	E. D. Woods	29,626	Nov. 8	85	924
Side-bar spring	B. F. Du Bois	29,579	Nov. 1	85	766
Sifter. Ash-pan	F. H. Dreyer	29,441	Oct. 4	85	143
Sifter box. Ash	L. Wormser	29,103	July 26	84	642
Sign	G. A. E. Barnes	29,193	Aug. 9	84	975
Sign. Advertising	A. and M. Gerstendorfer	29,854	Dec. 20	85	1897
Sign. Electric-light	M. Norden	29,046	July 12	84	305
Sign for trolley-poles. Advertising	W. M. Thawley	29,641	Nov. 8	85	927
Signal-stand crown-plate	H. Johnson	29,501	Oct. 18	85	444
Signal-stand interlocking plate	H. Johnson	29,502	Oct. 18	85	444
Signal-stand pillar	H. Johnson	29,503	Oct. 18	85	444
Sill-pocket	H. W. Gays	28,357	Mar. 8	82	1552
Silverware-border	P. J. Chéron	28,504	Apr. 26	83	588
Silverware, &c. Border for	C. Osborne	29,357	Sept. 20	84	1857
Skate frame. Roller	R. Reach	28,447	Apr. 5	83	151
Skirt-band	E. W. Towne	28,246	Feb. 1	82	743
Skirt-facing	I. B. Kleinert	29,084	July 19	84	503
Skirt-hanger	J. S. Heaton	29,038	July 12	84	304
Skirt-protector	H. Haase	29,652	Nov. 8	85	929
Skirt-protector	H. Haase	29,689	Nov. 15	85	1074
Skirt-protector	H. Maul	29,803	Dec. 13	85	1731
Skirt-protector	O. S. Patton	28,463	Apr. 12	83	288
Skirt-protector	E. Pietschmann	28,795	June 7	83	1500
Skirt-protector	J. B. Poyet	28,461	Apr. 12	83	288
Skirt-protector	J. B. Poyet	28,462	Apr. 12	83	288
Skirt-protector	H. A. Schaefer	29,101	July 26	84	642
Skirt-supporter	W. J. Fleming	28,115	Jan. 4	82	176
Skirt-supporter	J. A. Levison	28,506	Apr. 26	83	588
Sleigh-crook	F. J. Brindley	28,286	Feb. 15	82	1040
Sliver stopping and guiding spoon	C. R. Brown	29,536	Oct. 25	85	603
Snow-guard	G. F. Folsom	28,655	May 17	83	1060
Sod cutting and lifting implement	T. J. and J. B. Gunning	29,737	Nov. 29	85	1392
Sofa	J. H. Bunnell	29,640	Nov. 8	85	927
Sole. Chamber-slipper	B. C. Haskell	29,692	Nov. 15	85	1074
Sole-cushion	W. I. Bunker	29,749	Nov. 29	85	1394
Sole fabric. Shoe	J. E. Kennedy	29,554	Oct. 25	85	606
Spark-arrester casing	H. H. Emison	28,493	Apr. 19	83	498
Spectacle-case	J. Casey and M. S. Chism	29,696	Nov. 22	85	1213
Spectacle or eyeglass temple	S. G. Marshutz	29,868	Dec. 27	85	2078
Spectacles, &c. Bridge or spring for	I. Fox	29,697	Nov. 22	85	1213
Spectacles frame. Reflecting	J. S. Connolly	28,887	June 21	83	1791
Spike-hole plug	O. Ackley	28,851	June 14	83	1649



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Spittoon-cover	K. Endle	28,862	June 14	83	1651
Spoke-socket	E. L. Hilderbrand	28,294	Feb. 15	82	1042
Sponge and soap holder	O. H. Huebel	29,620	Nov. 8	85	923
Sponge-case	J. J. Honecker	28,118	Jan. 4	82	176
Spool or reel frame	A. Scherrer	28,272	Feb. 8	82	888
Spool or tube holder	G. W. King	29,436	Oct. 4	85	142
Spool-stand	J. Hamilton	28,797	June 7	83	1501
Spoon	W. A. Brown	29,354	Sept. 20	84	1856
Spoon	W. A. Brown	29,355	Sept. 20	84	1856
Spoon	W. A. Brown	29,661	Nov. 15	85	1069
Spoon	W. A. Brown	29,662	Nov. 15	85	1069
Spoon	W. O. Hart	28,629	May 17	83	1056
Spoon	I. B. Hooker	29,866	Dec. 27	85	2078
Spoon	E. Mohr	28,789	June 7	83	1500
Spoon, &c.	F. W. Smith	28,221	Feb. 1	82	739
Spoon	F. S. Swalm	29,695	Nov. 22	85	1213
Spoon	E. Todd, Jr	28,719	May 31	83	1331
Spoon	H. M. Williams	28,788	June 7	83	1499
Spoon, fork, or similar article	P. Farnham	29,403	Sept. 27	84	2008
Spoon, fork, or similar article	G. P. Tilton	28,924	June 28	83	1979
Spoon or fork handle	J. G. Theobald	28,630	May 17	83	1056
Spoon or similar article	A. F. Jackson	29,463	Oct. 11	85	281
Spoon or similar article	H. M. Williams	29,725	Nov. 29	85	1390
Spoon. Souvenir	N. T. Macferron	28,154	Jan. 11	82	330
Spoons, forks, &c. Handle for	J. Clulee	28,525	May 3	83	736
Spoons, forks, &c. Handle for	J. Clulee	29,215	Aug. 16	84	1131
Spoons, forks, &c. Handle for	C. Silber	28,631	May 17	83	1056
Spoons, forks, &c. Handle for	G. Strohacker	28,923	June 28	83	1979
Spoons, forks, &c. Handle for	H. L. Wallace	28,524	May 3	83	736
Spoons, forks, &c. Handle for	H. L. Wallace	29,120	Aug. 2	84	796
Spoons, &c. Handle for	W. C. Codman	29,261	Aug. 23	84	1276
Spoons, &c. Handle for	E. Cress and C. S. Court	28,167	Jan. 18	82	451
Spoons, &c. Handle for	H. H. Curtis	28,408	Mar. 29	82	1977
Spoons, &c. Handle for	B. W. and G. Gooding	28,885	June 21	83	1790
Spoons, &c. Handle for	W. A. Jameson	29,324	Sept. 13	84	1720
Spoons, &c. Handle for	H. J. Klumpp	28,281	Feb. 15	82	1039
Spoons, &c. Handle for	F. T. Love	28,680	May 24	83	1196
Spoons, &c. Handle for	F. T. Love	28,681	May 24	83	1196
Spoons, &c. Handle for	C. Osborne	29,356	Sept. 20	84	1857
Spoons, &c. Handle for	L. Pretzer	28,166	Jan. 18	82	451
Spoons, &c. Handle for	H. L. Wallace	28,113	Jan. 4	82	176
Sprayer-body	C. T. Pratt	28,211	Jan. 25	82	590
Sprayer-body	D. B. Smith	29,227	Aug. 16	84	1133
Sprayer-body	D. B. Smith	29,292	Aug. 30	84	1429
Sprayer-body	D. B. Smith	29,327	Sept. 13	84	1720
Sprayer-body	D. B. Smith	29,623	Nov. 8	85	924
Sprayer-body	D. B. Smith	29,624	Nov. 8	85	924
Sprayer-body	D. B. Smith	29,625	Nov. 8	85	924
Sprayer-body	D. B. Smith	29,899	Dec. 27	85	2084
Sprayer-body	D. B. Smith	29,900	Dec. 27	85	2084
Sprayer. Hand	T. A. Galt	28,566	May 10	83	900
Spring	B. S. Seaman	29,022	July 12	84	301
Spring for beds, &c. Coiled-wire	W. A. Comstock	28,896	June 21	83	1792
Square and miter. Try-	J. A. Traut	28,265	Feb. 8	82	886
Square. Combination-	B. E. Sawyer	29,875	Dec. 27	85	2079
Stair-tread	W. S. Inglis	28,351	Mar. 8	82	1551
Stall-fixture	H. M. and R. C. Eldridge	29,071	July 19	84	501
Stamp. Hand	J. Rothschild	29,469	Oct. 11	85	282
Stamp. Pastry	G. L. Guilliams	29,470	Oct. 11	85	283
Stamp. Trading-	W. C. Brown	28,784	June 7	83	1499
Stamps. Handle for postal marking and canceling	A. H. Anderson	28,645	May 17	83	1059
Stand. Ornamental	T. A. Knowlton	29,886	Dec. 27	85	2081
Staple	J. B. Hughes and H. H. Bacon	29,472	Oct. 11	85	283
Staple-extracting tools. Member of	L. Vincent	29,903	Dec. 27	85	2084
Statuette	F. Goldscheider	29,358	Sept. 20	84	1857
Steam and hot-water heater-section	G. H. Burley	29,506	Oct. 18	85	445
Steam-generator header. Sectional-	C. P. Higgins	29,740	Nov. 29	85	1393
Steamer casing. Wheat-	W. J. Merriam	28,609	May 10	83	908
Stethoscopic instrument	R. C. M. Bowles	28,307	Feb. 22	82	1201
Stirrup	F. W. Bantz	29,415	Sept. 27	84	2010
Stirrup	J. C. Buntin	29,416	Sept. 27	84	2011
Stock-marking-tool member	J. P. Shaw	29,308	Sept. 6	84	1576
Stocking	O. L. Fay	29,254	Aug. 16	84	1138
Stocking	A. Sessler	28,276	Feb. 8	82	888
Stocking. Bicycle or similar	G. P. Brown	29,087	July 19	84	504
Stocking-heel-protector blank	M. J. Van Voorhis	29,555	Oct. 25	85	606
Stool. Foot-	S. H. Beard and S. H. Shoup	28,201	Jan. 18	82	457
Stools. Foot for foot-	W. B. Shaw	29,792	Dec. 13	85	1729
Stone-dressing. Reversible cutter for	J. Dobbie	29,185	Aug. 9	84	974
Storage and display case	A. Walter	29,236	Aug. 16	84	1134
Stove	W. H. Albach	29,074	July 19	84	501
Stove	A. M. Blakesley	28,936	June 28	83	1981
Stove	J. P. Lynott	28,602	May 10	83	906
Stove	A. B. McMillan	28,601	May 10	83	906
Stove	C. Stubenbord	28,519	Apr. 26	83	590
Stove	A. H. Wolff	29,240	Aug. 16	84	1135
Stove. Cooking-	T. R. Kennedy and E. J. King	29,507	Oct. 18	85	445
Stove. Cooking-	F. A. Klaine	28,219	Jan. 25	82	592
Stove. Cooking-	T. I. Rankin	29,586	Nov. 1	85	767
Stove. Cooking-	T. I. Rankin	29,587	Nov. 1	85	767
Stove. Cooking-	T. I. Rankin	29,588	Nov. 1	85	768
Stove. Cooking-	T. I. Rankin	29,589	Nov. 1	85	768
Stove. Cooking-	W. W. Wehrle	29,394	Sept. 20	84	1864
Stove-door-catch shell	B. W. Burdick	28,764	May 31	83	1338
Stove foot-rail	L. Kahn	29,884	Dec. 27	85	2081
Stove. Gas-	H. Adler	28,497	Apr. 19	83	439



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Design.	Name.	No.	Date.	Official Gazette.	
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Stove. Heating-----	G. W. Blakesley .....	28,120	Jan. 4	82	177
Stove. Heating-----	E. G. Germer .....	28,386	Mar. 15	82	1684
Stove. Heating-----	E. G. Germer .....	28,937	June 28	83	1982
Stove. Heating-----	E. G. Germer .....	29,305	Sept. 6	84	1576
Stove. Heating-----	E. H. Huenefeld .....	28,362	Mar. 8	82	1553
Stove. Heating-----	E. H. Huenefeld .....	28,496	Apr. 19	83	439
Stove. Heating-----	T. R. Kennedy .....	29,075	July 19	84	501
Stove. Heating-----	T. R. Kennedy and E. J. King .....	29,393	Sept. 20	84	1863
Stove. Heating-----	B. Woodhull .....	28,766	May 31	83	1338
Stove. Heating-----	B. Woodhull .....	28,820	June 7	83	1504
Stove leg. Gas-----	M. Griswold, Jr. ....	28,313	Feb. 22	82	1202
Stove-lid and pan lifter .....	I. O. Miller .....	28,940	June 28	83	1982
Stove or heater. Gas .....	S. W. Martin .....	29,237	Aug. 16	84	1134
Stove or heater. Gas .....	S. W. Martin .....	29,238	Aug. 16	84	1135
Stove or heater. Gas .....	S. W. Martin .....	29,239	Aug. 16	84	1135
Stove or radiator. Gas .....	A. H. Wolff .....	29,843	Dec. 20	85	1896
Stove or range .....	R. Thiem .....	29,181	Aug. 9	84	973
Stove or range .....	B. Woodhull .....	28,663	May 17	83	1061
Stove or range .....	B. Woodhull .....	28,664	May 17	83	1061
Stove or range shelf-section .....	B. Woodhull .....	28,599	May 10	83	906
Stovepipe .....	W. Beitner and N. M. Smith .....	28,146	Jan. 11	82	329
Stovepipe-section and hot-water tank .....	W. C. Danum .....	29,027	July 12	84	302
Stovepipe-thimble .....	H. D. Walker .....	29,102	July 26	84	642
Stove-plate .....	H. M. Lewis .....	28,385	Mar. 15	82	1684
Stove-reservoir .....	C. W. Whipfler .....	28,708	May 24	83	1200
Stove top. Gasolene-----	C. A. Herr .....	29,440	Oct. 4	85	143
Stove-urn .....	D. M. Ireland .....	28,765	May 31	83	1338
Stove water-front .....	J. W. Kennedy .....	29,183	Aug. 9	84	973
Stoves, &c. Canopy for oil-----	M. E. Leitz .....	29,293	Aug. 30	84	1429
Stoves. Water-heater for gas-----	J. S. Dooly .....	28,427	Mar. 29	82	1981
Strainer for catch-basins .....	H. E. Wieber .....	28,964	June 28	83	1986
Strainer. Tea-----	J. P. Eustis .....	29,058	July 19	84	498
Strainer. Tea or coffee pot .....	J. P. Eustis .....	28,886	June 21	83	1790
Street-stands. Body for rolling .....	H. S. Mundy .....	28,994	July 5	84	137
Stringed-instrument tailpiece .....	E. D. Son .....	28,507	Apr. 26	83	588
Stud. Lacing-----	J. L. Glenn, Jr. ....	29,668	Nov. 15	85	1070
Stud member for detachable fasteners .....	G. E. Adams .....	28,917	June 28	83	1978
Stump-burner .....	C. L. Kelley .....	28,986	July 5	84	135
Surgical stand .....	R. M. Thomas .....	28,436	Mar. 29	82	1982
Suspender-end .....	C. F. Edgarton .....	28,792	June 7	83	1500
Suspender-end .....	J. A. Hewes .....	29,203	Aug. 9	84	977
Suspender-end .....	F. F. Knothe .....	28,878	June 14	83	1654
Sweat-pad .....	E. L. McClain .....	28,576	May 10	83	902
Switch-contact .....	M. Guett .....	28,984	July 5	84	135
Switch contact member .....	G. W. Hart .....	29,582	Nov. 1	85	766
Switch foot-guard .....	J. Donovan .....	28,494	Apr. 19	83	439
Syringe body. Hypodermic-----	S. W. Robinson and H. J. Detmers .....	28,344	Mar. 8	82	1551
Syringe-bulb .....	A. B. Cruickshank .....	29,409	Sept. 27	84	2009
Syringe-nozzle .....	J. T. Wetherald .....	28,861	June 14	83	1651
Syringe-nozzle .....	E. B. Wilder .....	28,210	Jan. 25	82	590
Syringe-pipe .....	C. Sullivan .....	29,765	Dec. 6	85	1578
Syringe. Vaginal .....	W. E. Dewey .....	29,141	Aug. 2	84	799
Syrup-cup cover .....	E. A. Russell .....	29,124	Aug. 2	84	796
Table .....	F. Stewart .....	29,761	Dec. 6	85	1577
Table-stand .....	W. Ehrlich .....	28,366	Mar. 8	82	1554
Table-top .....	F. Stewart .....	29,846	Dec. 20	85	1896
Tack .....	H. F. Reuter .....	28,350	Mar. 8	82	1551
Tag .....	J. F. McFadden .....	28,619	May 10	83	910
Tag-fastener .....	S. C. Lauber .....	29,062	July 19	84	499
Tag-holder .....	G. J. Fliehmann .....	29,329	Sept. 13	84	1721
Tally casing. Base-ball-----	J. K. Ritchey .....	29,131	Aug. 2	84	797
Tape .....	J. B. Sidebotham .....	29,457	Oct. 4	85	146
Tape-coupling jaw .....	H. L. Roberts .....	29,728	Nov. 29	85	1391
Target .....	P. North .....	28,298	Feb. 15	82	1043
Tea-kettles, &c. Spout for-----	G. W. Turney .....	28,644	May 17	83	1058
Tea or coffee pot .....	F. W. Van Bergh .....	28,610	May 10	83	908
Teapot or like article .....	A. F. Jackson .....	28,484	Apr. 19	83	437
Teapot or like article .....	A. F. Jackson .....	28,688	May 24	83	1197
Teeth. Cap for-----	A. W. Smith and H. McDowell .....	29,876	Dec. 27	85	2079
Telephone-operator's switchboard .....	W. F. Smith .....	28,697	May 24	83	1198
Telephone receiving instruments. Removable cap for .....	J. J. Mulconroy .....	29,707	Nov. 22	85	1215
Textile fabric .....	O. Jaeger and G. Schmiedel .....	29,323	Sept. 6	84	1579
Textile fabric .....	O. Jaeger and G. Schmiedel .....	29,654	Nov. 8	85	930
Thermostatic chamber .....	J. K. Gilcrest .....	28,950	June 28	83	1984
Thill-coupling plate .....	C. T. Redfield .....	28,194	Jan. 18	82	456
Thill-coupling washer .....	C. C. Bradley .....	28,571	May 10	83	901
Thimble .....	J. F. Simons .....	28,721	May 31	83	1381
Thimble and scissors case .....	M. Washington .....	28,175	Jan. 18	82	452
Thread or twine cutter .....	W. E. Rosebro .....	28,888	June 21	83	1791
Threshing-machine cylinder and concave tooth .....	W. Stevens .....	28,543	May 3	83	738
Tie-plate or chair .....	I. L. Edwards .....	29,764	Dec. 6	85	1578
Tile .....	B. O. Haugh .....	28,907	June 21	83	1794
Tile .....	E. S. Thomas .....	28,670	May 17	83	1062
Tile-band .....	J. Jacobs .....	29,003	July 5	84	139
Tile. Roof-----	L. J. W. Birn .....	29,904	Dec. 27	85	2085
Tip-cat .....	R. A. Nagler .....	29,553	Oct. 25	85	606
Tire. Bicycle-----	J. J. Broderick .....	28,501	Apr. 19	83	440
Tire. Elastic .....	R. Cowen .....	28,586	May 10	83	904
Tire pattern. Vehicle-----	G. W. Hanna and E. Sterzing .....	28,335	Mar. 1	82	1411
Tire plug. Bicycle-----	C. P. Gifford .....	29,744	Nov. 29	85	1394
Tire-repairing plug .....	A. J. Whisler .....	29,268	Aug. 23	84	1277
Tire-valve cap .....	J. Lines .....	28,584	May 10	83	903
Tire-valve cap .....	J. Lines .....	28,585	May 10	83	904
Tires. Protecting-strip for wheel-----	G. H. Clark .....	28,381	Mar. 15	82	1683
Tobacco-bag .....	C. Millhiser .....	28,239	Feb. 1	82	742
Tobacco-package .....	G. Millhiser .....	29,192	Aug. 9	84	975



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Design.	Name.	No.	Date.	Official Gazette.	
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Tobacco-package	G. Millhiser	29,850	Dec. 20	85	1897
Tobacco-package	G. Millhiser	29,851	Dec. 20	85	1897
Tobacco-plug	W. W. Ford	28,967	July 5	84	133
Toe-calk	S. P. Wormwood	29,794	Dec. 13	85	1730
Tongs. Member of a pair of	L. M. and J. L. Kapp	29,307	Sept. 6	84	1576
Tongue-depressor	A. Sawyer	28,973	July 5	84	134
Tool	W. Walker	29,832	Dec. 20	85	1894
Tool. Garden-	G. C. Pearson	29,443	Oct. 4	85	143
Tool-handle	J. Swan	28,230	Feb. 1	82	740
Tool-handle	J. Swan	28,231	Feb. 1	82	741
Tool-handle	J. Swan	28,419	Mar. 29	82	1979
Tool-handle tip	J. H. Hamlin	28,738	May 31	83	1334
Tooth-support	N. Stafford	28,345	Mar. 8	82	1551
Toy	E. C. Behrens	29,746	Nov. 29	85	1394
Toy	H. C. Biette	28,776	May 31	83	1341
Toy	R. Scheifley	28,906	June 21	83	1794
Toy	G. W. Wright	28,551	May 3	83	740
Toy	E. T. Young	28,206	Jan. 18	82	458
Toy bank	C. A. Bailey	29,049	July 12	84	306
Toy bank	A. E. Brockett	29,685	Nov. 15	85	1073
Toy bank	F. J. Zecker	29,686	Nov. 15	85	1073
Toy. Combination	G. H. King	29,907	Dec. 27	85	2085
Toy money-bank	C. A. Bailey	29,687	Nov. 15	85	1073
Toy-wagon axle-bearing	O. Martin	28,431	Mar. 29	82	1981
Toy-wind-wheel blank	J. W. Woodruff	29,048	July 12	84	306
Trace-carrier	W. E. Dippert	29,515	Oct. 18	85	447
Trace-fastener	W. Brown	28,741	May 31	83	1334
Transformer-case	F. C. Sutter	29,410	Sept. 27	84	2009
Transformer-casing	J. W. Packard and H. W. Wiswell	28,997	July 5	84	138
Trap-fixture	C. H. Moore	28,268	Feb. 8	82	887
Tray. Confectionery-	G. E. Warren	28,415	Mar. 29	82	1979
Tree-trimmer	E. P. Mix	29,736	Nov. 29	85	1392
Trimming	L. L. Rupp	29,007	July 5	84	140
Trimming-cord. Ornamental	C. J. Ulmann	29,693	Nov. 15	85	1074
Trimming material	H. Bernstein	28,163	Jan. 11	82	332
Trolley-pole finder attachment	W. O. Rew	29,709	Nov. 22	85	1215
Trousers-fastener member	A. Salich	28,646	May 17	83	1059
Trousers-protector	E. P. Buren	29,162	Aug. 2	84	803
Trousers-stretcher	J. J. Lynch	28,647	May 17	83	1059
Truck frame. Car-	D. B. Kennedy	29,028	July 12	84	302
Truck side-bar	W. S. Adams	29,309	Sept. 6	84	1577
Trucks. End-bearing support for car-	W. S. Adams	28,328	Mar. 1	82	1410
Trunk-slat	G. Crouch	28,563	May 10	83	900
Trunk-slat	G. Crouch	28,564	May 10	83	900
Tub-fastening	T. G. F. Dolby	29,072	July 19	84	501
Tube cap. Collapsible-	A. L. Sieghortner	28,854	June 14	83	1650
Tug. Hame-	B. M. Pike	28,430	Mar. 29	82	1981
Tug. Harness-	W. Ness, Jr	29,702	Nov. 22	85	1214
Tug. Shaft-	T. W. Davies	29,383	Sept. 20	84	1862
Tug. Shaft-	C. Wandersee	28,809	June 7	83	1502
Tumbler	W. Buttler	29,813	Dec. 20	85	1891
Tunnel or similar casings. Channel-bar for	A. W. Buel	28,952	June 28	83	1984
Twine-cutter	J. Joffriaud	29,821	Dec. 20	85	1893
Type-cabinet	C. J. Shelverson	28,203	Jan. 18	82	458
Type. Font of	J. W. Phinney	28,253	Feb. 1	82	744
Type. Font of	J. W. Phinney	28,254	Feb. 1	82	744
Type. Font of	J. W. Phinney	29,773	Dec. 6	85	1579
Type. Font of border-	H. Barth	29,479	Oct. 11	85	284
Type. Font of printing-	J. F. Cumming	29,480	Oct. 11	85	284
Type. Font of printing-	R. Gnichwitz	29,080	July 19	84	502
Type. Font of printing-	C. W. Heergeist	29,272	Aug. 23	84	1278
Type. Font of printing-	H. Ihlenburg	28,204	Jan. 18	82	458
Type. Font of printing-	G. F. Schroeder	29,481	Oct. 11	85	284
Type-space	C. R. Murray	29,311	Sept. 6	84	1577
Type-writer ribbon	R. G. Hopkins	28,342	Mar. 8	82	1550
Umbrella and cane support	W. Walker	28,264	Feb. 8	82	886
Umbrella band-clasp fastener	J. Rose	29,819	Dec. 20	85	1892
Umbrella-handle pendant	L. H. Clogg	28,222	Feb. 1	82	739
Umbrella or parasol case	J. L. Brown	28,465	Apr. 12	83	289
Umbrella or parasol ribs. Tip for	C. H. Peddrick, Jr	28,562	May 10	83	900
Umbrella-stand	H. Ellsworth	28,466	Apr. 12	83	289
Umbrella suspension-holder	J. H. Schmidt	28,877	June 14	83	1654
Undergarment-body	G. O. Cook	29,912	Dec. 27	85	2086
Undervest	R. M. Appleton	29,085	July 19	84	503
Undervest. Lady's	H. A. Taylor	29,913	Dec. 27	85	2087
Underwaist	C. R. De Bevoise	29,100	July 26	84	642
Underwaist	C. R. De Bevoise	29,429	Sept. 27	84	2012
Upholstery-button fastening-plate	W. J. Kelly	29,738	Nov. 29	85	1393
Valve-disk	J. Binks	28,570	May 10	83	901
Vapor-burner	H. Ruppel	28,269	Feb. 8	82	887
Vault. Grave	E. Hubbard	29,609	Nov. 1	85	772
Vault-light	J. Magnusen	29,044	July 12	84	305
Vault-light	M. Mahony	29,399	Sept. 20	84	1865
Vehicle-frame	L. H. Dyer	29,772	Dec. 6	85	1579
Vehicle frame. Motor-	W. Morgan	29,544	Oct. 25	85	604
Vehicle-spring	H. A. Muckle	29,418	Sept. 27	84	2011
Velocipede crank-arm	W. H. Fauber	29,525	Oct. 18	85	448
Velocipede frame. Tandem-	G. D. Leechman	29,111	July 26	84	644
Velocipede front fork	G. L. Thompson	29,245	Aug. 16	84	1136
Velocipede-saddle	T. J. Kirkpatrick	29,417	Sept. 27	84	2011
Velocipede-saddle pommel-cushion	M. M. Deem	29,078	July 19	84	502
Velocipede-wagon body	H. G. and G. H. Fechtel	29,578	Nov. 1	85	766
Vending-machine casing or frame	E. Brunhoff	28,856	June 14	83	1650
Vessel	F. W. Smith	29,571	Nov. 1	85	764
Vessel-cover	P. T. Priest	28,406	Mar. 22	82	1816
Vest. Nursing-	A. Allen	28,389	Mar. 15	82	1685



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Violin or banjo bridge	J. Reel	28,956	June 28	83	1985
Wafer	H. D. Perky	28,785	June 7	83	1499
Wagon-body	H. A. De Hart	28,703	May 24	83	1199
Wagon-body	C. W. Wood	28,236	Feb. 1	82	741
Wagon body and top	S. V. Smith	28,457	Apr. 5	83	153
Wagon body. Delivery	J. C. Konrad	28,749	May 31	83	1336
Wagon body. Delivery	J. C. Konrad	28,750	May 31	83	1336
Wagon body. Delivery	J. C. Konrad	28,751	May 31	83	1336
Wagon body. Delivery	J. C. Konrad	28,752	May 31	83	1336
Wagon body. Speed	W. B. White	29,771	Dec. 6	85	1579
Wagon-box iron or cleat	J. O. Minor	28,193	Jan. 18	82	456
Wagon box. Speed	W. B. White	28,274	Feb. 8	82	888
Waistcoat	G. Tesiny	29,559	Oct. 25	85	606
Waist-front distender	R. Sahlin	28,536	May 3	83	738
Waist-front distender	R. Sahlin	29,098	July 26	84	641
Wardrobe-case	J. E. Kennedy	28,998	July 5	84	138
Warp stop-motions. Detector for	G. O. Draper	29,500	Oct. 18	85	444
Warp stop-motions. Drop for use in electrical	W. H. Baker and F. E. Kip	29,681	Nov. 15	85	1072
Warp stop-motions. Drop for use in electrical	W. H. Baker and F. E. Kip	29,682	Nov. 15	85	1072
Washboard	J. A. Galvin	29,073	July 19	84	501
Washboards. Blank or pattern for stamped	E. N. Gilfillan	29,187	Aug. 9	84	974
Washer	S. F. Clouser	29,541	Oct. 25	85	604
Washer	F. W. Huenekens	28,511	Apr. 26	83	589
Washer	A. P. Read	29,023	July 12	84	301
Washing-machine plunger	S. and T. P. Brown	28,658	May 17	83	1060
Washing-machine sprayer attachment	J. V. Rakestraw	29,186	Aug. 9	84	974
Watch-movement plate	J. C. Dueber	28,319	Mar. 1	82	1409
Watch-movement plate	J. C. Dueber	28,320	Mar. 1	82	1409
Watch-movement plate	J. C. Dueber	28,321	Mar. 1	82	1409
Water-bag	C. E. Longden	29,880	Dec. 27	85	2080
Water-closet bowl	F. J., Jr., and F. J. McCormick	28,545	May 3	83	739
Water-closet flush-tank	D. S. Wallace	28,472	Apr. 12	83	290
Water-closet tank	D. D. Buick	29,845	Dec. 20	85	1896
Water-front frame	E. Easterly	28,514	Apr. 26	83	589
Water-heater case or shell	A. Buerkle	29,584	Nov. 1	85	767
Weeder. Lawn	W. K. Long	29,831	Dec. 20	85	1894
Wheel	T. Corscaden	29,542	Oct. 25	85	604
Wheel	D. B. Lee	29,826	Dec. 20	85	1893
Wheel. Sprocket	C. A. Dunn	29,142	Aug. 2	84	799
Wheel. Sprocket	W. H. Fauber	29,827	Dec. 20	85	1894
Wheel. Sprocket	P. Forg	29,524	Oct. 18	85	448
Wheel. Sprocket	F. E. Mathewson	29,770	Dec. 6	85	1579
Wheel. Sprocket	L. Sturges	28,870	June 14	83	1653
Wheel or gear. Sprocket	C. S. Dikeman	29,450	Oct. 4	85	144
Whist board. Duplicate	F. B. Chase and E. P. Redfield	28,959	June 28	83	1986
Whist-tray	W. S. Coles	29,004	July 5	84	139
Wind-wheel	T. A. Schlaebitz	29,710	Nov. 22	85	1215
Window-cleaner	P. R. Cumming	28,990	July 5	84	136
Window-light	O. E. Winger	29,113	July 26	84	644
Window-light	O. E. Winger	29,114	July 26	84	645
Window-pole and picture-hook hanger	G. W. Willard	29,286	Aug. 30	84	1429
Window. Prism	G. K. Cummings	29,805	Dec. 13	85	1732
Window. Prism	G. K. Cummings	29,806	Dec. 13	85	1732
Window. Prism	G. K. Cummings	29,807	Dec. 13	85	1732
Window. Prism	G. K. Cummings	29,808	Dec. 13	85	1732
Window. Prism	G. K. Cummings	29,809	Dec. 13	85	1733
Window. Prism	G. K. Cummings	29,810	Dec. 13	85	1733
Window-stop adjuster	C. A. Taplin	28,857	June 14	83	1651
Wire-fabric pattern	C. G. Smith	28,624	May 10	83	910
Wire-stretcher	J. A. Mitchell	29,499	Oct. 18	85	444
Wire-tightener	J. A. Mitchell	29,630	Nov. 8	85	925
Woven fabric	S. Bottomley	28,623	May 10	83	910
Woven fabric	C. Franz	28,622	May 10	83	910
Woven fabric	C. Franz	29,859	Dec. 20	85	1898
Woven fabric	H. W. Smith	29,752	Nov. 29	85	1395
Woven fabric	H. W. Smith	29,753	Nov. 29	85	1395
Woven fabric	W. T. Smith	28,372	Mar. 8	82	1555
Woven fabric	W. T. Smith	28,716	May 24	83	1202
Woven fabric	W. T. Smith	28,960	June 28	83	1986
Woven fabric	W. T. Smith	28,961	June 28	83	1986
Woven fabric	W. T. Smith	28,962	June 28	83	1986
Woven fabric	W. T. Smith	29,164	Aug. 2	84	803
Woven fabric	W. T. Smith	29,211	Aug. 9	84	978
Wrench	L. M. Bushnell and S. S. Vaughan	29,109	July 26	84	644
Wrench	S. T. Freas	28,270	Feb. 8	82	887
Wrench	S. S. Vaughan and L. M. Bushnell	29,108	July 26	84	643
Wrench and screw-driver	J. T. and H. L. Stortz	28,380	Mar. 15	82	1683
Wrench-frame	R. C. Ellrich	28,512	Apr. 26	83	589
Wrench-frame	C. H. Metz	29,520	Oct. 18	85	448
Wrench-handle	J. Macphail	28,229	Feb. 1	82	740
Wrench-handle	A. Vaughan	29,767	Dec. 6	85	1578
Wrench. Jar	A. A. Faust	28,941	June 28	83	1982
Wrench-jaw	R. Atkinson and W. Nickels	29,629	Nov. 8	85	925
Wrench-jaw	R. B. Hough	29,338	Sept. 13	84	1722
Wrench-jaw	H. J. Martin	28,487	Apr. 19	83	438
Wrench. Spoke or nipple	C. Birk	29,339	Sept. 13	84	1722
Writing materials. Teacher's holder for	J. Akin	28,416	Mar. 29	82	1979
Writing-pad	B. Brower	29,253	Aug. 16	84	1138
Yoke center. Neck	G. A. Lambert	29,704	Nov. 22	85	1214







# ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette.	
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Abrasive materials, sandpaper, and emery paper and cloth.	Union Sand Paper and Emery Wheel Company.	31,776	July 5	84	143
Acetanilid, nitrite of soda, and blanc fixe.	Wm. J. Matheson & Company	32,237	Dec. 13	85	1735
Acetylene-machines, gas table, gas portable, gas carriage, and gas bicycle lamps, and gas fixtures and shades.	Craig-Reynolds Foundry Company.	31,157	Jan. 18	82	460
Acids. Vegetable	C. Ligneau	31,632	May 31	83	1343
Agricultural implements and hardware. Certain named	Fuqua Hardware Company	31,605	May 24	83	1206
Albumin compound containing phosphorus	Farbwerke, vormals Meister, Lucius & Brüning.	32,211	Dec. 6	85	1582
Albuminates and compounds thereof for certain named purposes.	E. von Bodenhausen	32,174	Nov. 22	85	1219
Albums, portfolios, and cases for preserving films. Photographic	Heinn Specialty Company	31,338	Mar. 1	82	1413
Alcohol, spirits, gin, and whisky	Standard Distilling and Distributing Company.	31,927	Aug. 30	84	1432
Ale, beer, and porter	Granger & Gregg Brewing Company	31,479	Apr. 19	83	442
Ale. Ginger	Consumers Company	31,804	July 12	84	308
Ale, lager-beer, and porter	A. G. Van Nostrand	31,492	Apr. 26	83	592
Ammunition for small-arms	Winchester Repeating Arms Company.	31,674	June 7	83	1510
Anesthetic for ophthalmological purposes. Local	Farbwerke, vormals Meister, Lucius & Brüning.	32,210	Dec. 6	85	1582
Antidote devoid of narcotic ingredients. Fever	Swanson & Lloyd	32,288	Dec. 27	85	2088
Antiseptic and remedy for skin diseases, tuberculosis, chlorosis, diseases of women, internal catarrh, and bronchial asthma.	Knoll & Co	31,114	Jan. 11	82	333
Antiseptic. Chemical compound used as an	Knoll & Co	31,186	Feb. 1	82	746
Antiseptic preparation	P. Hakansson	31,660	June 7	83	1509
Antiseptic tablets and powder for certain named purposes	Boraline Chemical Co	31,859	Aug. 9	84	980
Antiseptics	Farbenfabriken of Elberfeld Company.	31,837	Aug. 2	84	805
Apparel. Certain named wearing-	J. Samuels & Bro.	31,707	June 21	83	1797
Apparel for men, boys, and youths. Certain named wearing-	M. Ballin & Sons	31,608	May 31	83	1342
Apple-trees	Stark Bros. Nurseries and Orchards Company.	32,184	Nov. 22	85	1220
Apple-trees	Stark Bros. Nurseries and Orchards Company.	32,185	Nov. 22	85	1220
Astringents. Intestinal	Farbenfabriken of Elberfeld Company.	31,527	May 10	83	912
Autoharps, citherns, and guitars	F. Strauss	31,739	June 28	83	1987
Axes and hatchets	Supplee Hardware Company	31,604	May 24	83	1206
Axes, saws, and hatchets	Dunham Carrigan & Hayden Company.	31,700	June 14	83	1658
Axles and trimmings. Vehicle-	G. M. Mather	31,419	Mar. 8	82	1560
Bakery products and confectionery. Certain named	National Biscuit Company	32,301	Dec. 27	85	2089
Baking-powder	J. P. Dieter Company	32,092	Oct. 25	85	607
Baking-powder	Southern Manufacturing Company	32,172	Nov. 22	85	1219
Baking-powder	Southern Manufacturing Company	32,300	Dec. 27	85	2089
Baking-powder	Sprague, Warner & Company	31,312	Feb. 22	82	1207
Baking-powder	J. Strong & Co	31,970	Sept. 13	84	1726
Baking-powder and bicarbonate of soda.	Morehouse Manufacturing Company.	32,263	Dec. 20	85	1901
Baking-powder and bicarbonate of soda	Morehouse Manufacturing Company.	32,299	Dec. 27	85	2089
Baking-powder and yeast	Allen Bros	31,216	Feb. 8	82	890
Band instruments.	Buescher Manufacturing Company.	31,953	Sept. 6	84	1582
Banjos	American Automatic Banjo Company.	31,245	Feb. 15	82	1045
Battery cells. Voltaic	National Carbon Company	31,330	Feb. 22	82	1208
Beds and mattresses	L. Gholstin	32,057	Oct. 18	85	450
Bedsteads. Folding	Hale & Kilburn Manufacturing Company.	31,496	Apr. 26	83	592
Bedsteads made wholly or in part of metal	Coburn Metallic Bed and Pneumatic Tube Mattress Company.	31,807	July 12	84	308
Beer	Bürgerliches Bräuhaus in Pilsen	31,361	Mar. 1	82	1415
Beer	Ernst Tosetti Brewing Company	31,384	Mar. 8	82	1557
Beer. Lager-	Anderton Brewing Company	31,360	Mar. 1	82	1415
Beer. Lager-	Arnholdt & Schaefer Brewing Company.	31,421	Mar. 15	82	1686
Beer. Lager-	Bartholomae & Roesing Brewing and Malting Company.	32,257	Dec. 20	85	1901
Beer. Lager-	Independent Brewing Association.	31,792	July 5	84	144
Beer. Lager-	S. S. Pierce Company	31,926	Aug. 30	84	1432
Beer, lager-beer, ale, and porter	W. B. Holloway	31,203	Feb. 1	82	747
Beer, lager-beer, ale, and porter	W. B. Holloway	31,268	Feb. 15	82	1047
Beer. Light brewings of lager-	Weisbrod & Hess	31,318	Feb. 22	82	1207
Belting	J. F. Brown	32,155	Nov. 15	85	1075
Belting. Leather	Detroit Oak Belting Company	31,486	Apr. 26	83	591
Belting. Leather	Graton & Knight Manufacturing Company.	31,435	Mar. 22	82	1817
Belting. Silk and serge	American Silk Label Manufacturing Co.	32,224	Dec. 13	85	1734
Belts for machinery. Leather driving-	H. F. Whiting	31,288	Feb. 22	82	1205



*Alphabetical list of trade-marks—Continued.*

Title.	Name.	No.	Date.	Official Gazette.	
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Belts, shirt-waist holders, and skirt-supporters. Waist- Beverage. Food.....	A. E. Dunbar..... H. J. Bradbury.....	31,868 31,220	Aug. 16 Feb. 8	84 82	1139 890
Beverage. Liquid nutritive stimulant.....	L. E. Battle.....	31,357	Mar. 1	82	1415
Beverages and medicinal purposes. Effervescent granules for.....	Armstrong Manufacturing Com- pany.....	31,680	June 14	83	1656
Beverages and mineral waters. Certain named.....	L. Boyer's Sons.....	31,720	June 21	83	1798
Beverages. Certain named.....	Sprague, Warner & Company.....	31,359	Mar. 1	82	1415
Bicycle and other transmission chains. Covers for.....	W. E. F. Marchal.....	31,606	May 24	83	1206
Bicycle-chains.....	Baldwin Cycle Chain Company.....	31,568	May 17	83	1066
Bicycle-saddles.....	H. A. Christy & Company.....	31,277	Feb. 15	82	1048
Bicycle seat-posts.....	J. N. Smith & Co.....	31,241	Feb. 8	82	892
Bicycle sundries. Certain named.....	R. C. Jenkinson.....	31,902	Aug. 23	84	1280
Bicycles.....	American News Company.....	31,642	May 31	83	1344
Bicycles.....	American News Company.....	31,643	May 31	83	1344
Bicycles.....	Arnold, Schwinn & Company.....	31,827	July 26	84	646
Bicycles.....	Columbus Bicycle Company.....	31,455	Apr. 5	83	154
Bicycles.....	W. M. Holahan.....	31,866	Aug. 9	84	980
Bicycles.....	Peoria Rubber and Manufacturing Company.....	31,903	Aug. 23	84	1280
Bicycles.....	Waltham Manufacturing Company.....	32,196	Nov. 29	85	1396
Bicycles. Adjustable handle-bars for.....	Wood Manufacturing Co.....	31,133	Jan. 11	82	335
Bicycles and like vehicles.....	Eclipse Bicycle Company.....	31,201	Feb. 1	82	747
Bicycles and similar vehicles.....	M. E. Johnson.....	31,514	May 3	83	742
Bicycles and their component parts. Safety- Bicycles. Safety-.....	G. M. Hendee..... Western Wheel Works.....	31,644 31,070	May 31 Jan. 4	83 82	1344 181
Bicycles, tricycles, and velocipedes.....	Supplee Hardware Company.....	31,676	June 7	83	1510
Bicycles, tricycles, velocipedes, and parts thereof.....	Birmingham Small Arms Company.....	31,495	Apr. 26	83	592
Bicycles, velocipedes, and like vehicles.....	Hartford Cycle Company.....	31,158	Jan. 18	82	460
Bicycles, velocipedes, and like vehicles.....	Pope Manufacturing Company.....	31,420	Mar. 8	82	1560
Bicycles, velocipedes, and their parts and attachments.....	Empire Cycle Company.....	31,427	Mar. 22	82	1817
Biscuits.....	H. Bahlson.....	31,171	Jan. 25	82	594
Biscuits, wafers, and the like. Home-made.....	The Misses Wiestling.....	31,206	Feb. 1	82	748
Bits, spurs, stirrups, and harness-fittings.....	E. H. Eglington.....	31,975	Sept. 13	84	1726
Bitters.....	Johnston, Holloway & Co.....	31,583	May 24	83	1204
Bitters for biliousness and jaundice. Vegetable.....	Estate of H. H. Hay.....	31,898	Aug. 23	84	1280
Bitters. Stomach-.....	R. Napoletano.....	31,664	June 7	83	1509
Blacking for boots and shoes. Liquid.....	C. L. Hawthaway & Sons.....	31,597	May 24	83	1205
Blood-purifier. Vegetable.....	W. S. Burkhardt.....	31,225	Feb. 8	82	891
Blue. Ultramarine-.....	Heller & Merz Company.....	31,404	Mar. 8	82	1558
Blue. Wash-.....	Heller & Merz Company.....	31,309	Feb. 22	82	1206
Blue. Wash-.....	Sol-Blu Manufacturing Company.....	32,162	Nov. 15	85	1076
Bluing. Indigo.....	A. Pfromm.....	31,686	June 14	83	1656
Boiler fittings and furnishings.....	Reliance Gauge Company.....	32,083	Oct. 18	85	452
Boilers. Scale-removing compounds for steam- Bonbons.....	E. C. Smith..... Walter M. Lowney Company.....	31,230 32,104	Feb. 8 Nov. 1	82 85	891 773
Books and writing-paper. Blank.....	National Blank Book Company.....	32,101	Nov. 1	85	773
Books. Letter- Books, pamphlets, and leaflets.....	G. W. Robertson..... D. P. Hatch.....	31,867 31,545	Aug. 16 May 17	84 83	1139 1064
Boots and shoes.....	L. G. Bloomingdale.....	31,960	Sept. 13	84	1725
Boots and shoes.....	Brennan & White.....	31,335	Mar. 1	82	1413
Boots and shoes.....	Brennan & White.....	32,124	Nov. 8	85	932
Boots and shoes.....	Brennan & White.....	32,251	Dec. 20	85	1900
Boots and shoes.....	Hurley & Cashman.....	31,744	June 28	83	1987
Boots and shoes.....	Hurley & Cashman.....	31,811	July 19	84	505
Boots and shoes.....	International Goodyear Shoe Ma- chinery Company.....	31,378	Mar. 8	82	1556
Boots and shoes.....	Kellam, Tilton & Co.....	32,252	Dec. 20	85	1900
Boots and shoes.....	Kelley-Goodfellow Shoe Company.....	31,336	Mar. 1	82	1413
Boots and shoes.....	A. E. Little & Co.....	32,100	Nov. 1	85	773
Boots and shoes.....	Thomas G. Plant Company.....	32,038	Oct. 11	85	285
Boots and shoes. Elastic goring for Congress.....	E. & A. H. Batcheller Company.....	32,253	Dec. 20	85	1900
Boots and shoes. Leather.....	E. H. Tilton.....	31,848	Aug. 9	84	979
Boots and shoes. Machinery for manufacturing.....	International Goodyear Shoe Ma- chinery Company.....	31,198	Feb. 1	82	747
Boots and shoes. Soles and other leather parts of.....	Pfister & Vogel Leather Company.....	31,849	Aug. 9	84	979
Boots, shoes, and leather.....	Rice & Hutchins.....	32,199	Dec. 6	85	1581
Boots, shoes, and slippers.....	P. C. Saul.....	32,200	Dec. 6	85	1581
Boots, shoes, and slippers. Leather.....	G. T. Slater & Sons.....	31,102	Jan. 4	82	183
Boots. Wool.....	Converse & Pike.....	31,100	Jan. 4	82	183
Bottles.....	Jefferis Glass Works.....	31,539	May 10	83	913
Boxes or tubs. Packing.....	L. C. Dickerman.....	31,413	Mar. 8	82	1559
Braid. Trimming-.....	Vogt Manufacturing and Coach Lace Company.....	32,055	Oct. 18	85	450
Brewers' supplies. Certain named.....	R. Schneider.....	31,751	June 28	83	1988
Brick and tiles. Fire-.....	Scioto Star Fire-Brick Works.....	31,324	Feb. 22	82	1208
Bristles, wool, fur, hair, skins, and hides.....	R. Brauss & Co.....	31,747	June 28	83	1987
Bronze and babbitt metals.....	D. C. Sanford.....	32,157	Nov. 15	85	1075
Brooms for household use. Long-handled.....	H. Thompson.....	31,819	July 19	84	506
Brushes.....	Florence Manufacturing Company.....	31,862	Aug. 9	84	980
Brushes. Scrub and horse.....	W. H. Gates.....	31,155	Jan. 18	82	460
Buckles.....	North & Judd Manufacturing Com- pany.....	31,247	Feb. 15	82	1045
Buckles.....	Ramsey & Effinger.....	32,168	Nov. 22	85	1219
Buggies, surreys, phaetons, and the like and their gears and parts.....	H. H. Babcock Company.....	31,071	Jan. 4	82	181
Butter, milk, cheese, and cream.....	J. L. Humphrey, Jr.....	31,852	Aug. 9	84	979
Buttons.....	Morley Button Manufacturing Com- pany.....	31,769	July 5	84	142
Cabinets. Kitchen-.....	Queen Cabinet Company.....	31,368	Mar. 1	82	1416
Cables, ropes, cords, and twines.....	O. F. Zurn Company.....	31,512	May 3	83	742
Calimine—a mixture of dry powder with water.....	F. O. Pierce Company.....	31,630	May 31	83	1343
Calfskins.....	L. C. Bliss & Co.....	31,253	Feb. 15	82	1045
Calico-prints.....	Cochrane Manufacturing Company.....	31,162	Jan. 25	82	593
Calico-prints.....	Cochrane Manufacturing Company.....	31,163	Jan. 25	82	593
Cameras. Photographic.....	Western Camera Manufacturing Company.....	31,698	June 14	83	1657
Can-head. Key-opening.....	Ziegfeld Co.....	32,240	Dec. 13	85	1736



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Title.	Name.	No.	Date.	Official Gazette.	
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Canned and boxed goods. Certain	J. W. Matthews & Co	31,724	June 21	83	1798
Canned fish and fruits	Balfour, Guthrie & Co	32,077	Oct. 18	85	452
Canned fish, particularly salmon	Seufert Bros. Co	31,127	Jan. 11	82	334
Canned goods and foods and relishes. Certain named	P. Jaeger & Co	32,173	Nov. 22	85	1219
Canned goods. Certain named	H. C. Baxter & Bro.	31,854	Aug. 9	84	979
Canned peas	Albert Landreth Company	32,106	Nov. 1	85	773
Canned peas	Albert Landreth Company	32,144	Nov. 8	85	934
Canned salmon	Alaska Packers Association	31,097	Jan. 4	82	183
Canned salmon	Eureka and Epicure Packing Company.	31,971	Sept. 13	84	1726
Canned salmon	Eureka and Epicure Packing Company.	31,972	Sept. 13	84	1726
Canned salmon	Eureka and Epicure Packing Company.	32,107	Nov. 1	85	773
Candy	Busy Bee Candy Kitchen Company	31,582	May 24	83	1204
Candy	F. H. Gruneberg	31,855	Aug. 9	84	979
Candy	H. L. Hildreth	31,537	May 10	83	913
Candy	S. T. Hopkins	31,723	June 21	83	1798
Candy. Combination of milk and molasses	P. C. Wiest Company	31,635	May 31	83	1344
Capsules	J. R. Planten	31,525	May 10	83	912
Capsules	J. R. Planten	31,526	May 10	83	912
Capsules, cerates, oils, and other remedies for catarrh. Uterine and other	E. J. Rayl	31,152	Jan. 18	82	459
Carbon-blacks	Peerless Carbon Black Company	31,818	July 19	84	506
Carbons. Electric-light	Schiff, Jordan & Co	32,037	Oct. 4	85	148
Carbons for electrical purposes	H. Reisinger	31,135	Jan. 11	82	335
Cards, writing-paper, and envelopes	American Souvenir Card Company	31,144	Jan. 18	82	459
Carpet-sweepers	Bissell Carpet Sweeper Company	31,702	June 14	83	1658
Carpet-sweepers	Grand Rapids School Furniture Company.	32,096	Oct. 25	85	608
Cars. Railway freight and passenger	Union Pacific Railroad Company	32,036	Oct. 4	85	148
Cartridges and cartridge-shells	Winchester Repeating Arms Company.	31,137	Jan. 11	82	335
Catchup, mustard, flavoring extracts, olives, pickles, and spices.	Exley, Watkins & Co.	31,126	Jan. 11	82	334
Catsups, mustard, and sauces	E. C. Flaccus Company	31,730	June 21	83	1799
Celery extract. Compound	R. Ray	31,878	Aug. 16	84	1140
Celluloid or imitation tortoise-shell. Certain named articles of	H. Maynard	31,109	Jan. 4	82	184
Cement for sealing pipe-joints and the like	A. H. Tripp	31,119	Jan. 11	82	333
Cement for uniting various materials and articles	McCaw, Stevenson & Orr	31,522	May 10	83	911
Cement. Liquid	Gem Chemical Co	31,408	Mar. 8	82	1559
Cement. Portland	Frank E. Morse Company	31,687	June 14	83	1656
Cement. Portland	Frank E. Morse Company	31,760	June 28	83	1989
Cement. Portland	Frank E. Morse Company	31,761	June 28	83	1989
Cement. Portland	Hammer Society	31,918	Aug. 30	84	1432
Cement. Portland	Hammer Society	31,919	Aug. 30	84	1432
Cement. Portland	Lehigh Portland Cement Company	32,183	Nov. 22	85	1220
Cement. Portland	Teutonia Misburger Portland Cementwerk.	31,524	May 10	83	912
Cement. Portland	Walter T. Bradley Company	31,195	Feb. 1	82	746
Cements. Portland and similar	Ohlemacher Lime Company	31,464	Apr. 12	83	293
Cementitious or adhesive substances and puncture-closers	Fabriques de Produits Chimiques de Thann & de Mulhouse.	32,236	Dec. 13	85	1735
Cereal food	F. Fuller	31,451	Mar. 29	82	1986
Cereal products	A. H. Herrick & Son	31,208	Feb. 1	82	748
Certain named apparatus and supplies	La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier.	31,699	June 14	83	1657
Chains, bracelets, and similar chain ornaments. Plated	O. M. Draper	31,108	Jan. 4	82	184
Champagne	Diamond Wine Company	31,383	Mar. 8	82	1557
Cheese	C. Perceval	32,049	Oct. 11	85	236
Cheese-cloth bandages. Tubular	West Boylston Manufacturing Company.	31,511	May 3	83	742
Cheese made from sweet milk of cows	A. Bickelhaupt	31,207	Feb. 1	82	748
Chemical and medicinal preparation	Firm of E. Merck	32,002	Sept. 27	84	2014
Chemical and medicinal preparation	Firm of E. Merck	32,003	Sept. 27	84	2014
Chemical compounds. Certain named	J. A. & W. Bird & Co.	32,206	Dec. 6	85	1582
Chemical compounds. Certain named	Farbenfabriken of Elberfeld Company.	31,659	June 7	83	1509
Chemical mixture or effervescent salt. Dry	D. Russell	31,091	Jan. 4	82	182
Chemical preparations and chemicals of brewers' supplies	E. J. Beggs & Co	32,193	Nov. 29	85	1396
Chemical substances for use in medicine and pharmacy	La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier.	32,138	Nov. 8	85	933
Chemicals and metals. Certain	Consolidated Kansas City Smelting and Refining Company.	31,194	Feb. 1	82	746
Chests or bins	M. F. Brown	31,901	Aug. 23	84	1280
Chill-cure	McArthur & Winston Bros	31,424	Mar. 15	82	1686
Chimneys, lantern-globes, and reflectors	Gill Brothers & Co	31,841	Aug. 2	84	805
Chocolate	Hershey Chocolate Co.	31,124	Jan. 11	82	334
Chocolate paste	H. Lieber	32,161	Nov. 15	85	1075
Chocolate. Powdered	Hance Bros. & White	31,219	Feb. 8	82	890
Cider. Bottled	S. S. Pierce Company	31,580	May 24	83	1204
Cigarettes	Egyptian Tobacco Company	32,294	Dec. 27	85	2089
Cigarettes	Egyptian Tobacco Company	32,295	Dec. 27	85	2089
Cigarettes	W. Sandorides & Co	31,122	Jan. 11	82	334
Cigarettes	W. D. & H. O. Wills	32,159	Nov. 15	85	1075
Cigarettes. All-tobacco	Holzman Bros	31,077	Jan. 4	82	181
Cigars	Allen & Marshall	31,497	May 3	83	741
Cigars	W. W. Arnold	31,669	June 7	83	1509
Cigars	Balsa y Hermano	31,969	Sept. 13	84	1726
Cigars	L. G. Bloomingdale	32,158	Nov. 15	85	1075
Cigars	F. Errear	31,202	Feb. 1	82	747
Cigars	Hannan Bros	31,850	Aug. 9	84	979
Cigars	C. Hermanos Sucesores	32,293	Dec. 27	85	2089



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Title.	Name.	No.	Date.	Official Gazette.	
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Cigars.....	M. Marsh & Son.....	32,256	Dec. 20	85	1900
Cigars.....	W. C. Poulton.....	31,321	Feb. 22	82	1208
Cigars.....	H. Stone.....	31,121	Jan. 11	82	334
Cigars.....	J. Wertheimer.....	31,322	Feb. 22	82	1208
Cigars. Havana.....	Chicago Athletic Association.....	31,633	May 31	83	1343
Cigars, tobacco, and cigarettes.....	W. W. Arnold.....	31,697	June 14	83	1657
Clasps.....	E. G. Tebbutt.....	31,237	Feb. 8	82	892
Clasps, buckles, braces, straps, tapes, ribbons, webbing, and belts.....	McClure, Sleeth & Wright.....	31,432	Mar. 22	82	1817
Cleaning compound or liquid.....	H. Stern.....	32,205	Dec. 6	85	1581
Cleaning glass, metal, earthenware, and other articles having smooth surfaces. Compounds for.....	J. W. Alton.....	31,938	Sept. 6	84	1581
Cleaning preparation for carpets and fabrics.....	C. F. Henze.....	31,190	Feb. 1	82	746
Cleansing compound. Ammonia.....	Zucker & Levett & Loeb Company.....	31,941	Sept. 6	84	1581
Cleansing fluid.....	C. G. Dobbs.....	32,302	Dec. 27	85	2089
Cloth manufactured in whole or in part of cotton.....	Halbot & Lens.....	31,104	Jan. 4	82	184
Clothing and ladies' and misses' tailor-made gowns, wraps, and coats. Men's, youths', and boys'.....	J. Wanamaker.....	31,141	Jan. 11	82	336
Clothing. Boys' outer.....	Goldberg Bros. & Co.....	31,456	Apr. 12	83	293
Clothing. Men's, boys', and children's.....	A. Kirschbaum & Co.....	31,911	Aug. 30	84	1431
Coal. Bituminous.....	Ohio and Mississippi Valley Coal and Mining Company.....	31,323	Feb. 22	82	1208
Coats, vests, trousers, and overcoats.....	W. C. Loftus.....	31,374	Mar. 8	82	1556
Cocktails. Certain named.....	L. J. Killian.....	32,229	Dec. 13	85	1735
Cocoa and chocolate.....	Oberhaeuser & Landauer.....	32,160	Nov. 15	85	1075
Coffee.....	C. F. Blanke Tea and Coffee Company.....	31,638	May 31	83	1344
Coffee.....	Enterprise Coffee Company of Baltimore City.....	31,721	June 21	83	1798
Coffee.....	E. Levering & Co.....	31,944	Sept. 6	84	1581
Coffee.....	N. Martin.....	31,381	Mar. 8	82	1556
Coffee and coffee substitutes.....	Sprague, Warner & Company.....	31,316	Feb. 22	82	1207
Coffee and roasted and ground coffee. Roasted.....	Enterprise Coffee Company of Baltimore City.....	31,639	May 31	83	1344
Coffee and tea.....	C. E. Moody & Co.....	32,202	Dec. 6	85	1581
Coffee, containing Java and Mocha. Blended.....	E. T. Smith Company.....	31,558	May 17	83	1065
Coffee. Green.....	Kunhardt & Co.....	32,261	Dec. 20	85	1901
Coffee. Green.....	Kunhardt & Co.....	32,262	Dec. 20	85	1901
Coffee. Prepared.....	L. H. Parke & Co.....	31,205	Feb. 1	82	747
Coffee. Roasted.....	American Coffee Company.....	31,899	Aug. 23	84	1280
Coffee. Roasted.....	Goebel & Wetterau.....	32,203	Dec. 6	85	1581
Coffee. Roasted and ground.....	Enterprise Coffee Company of Baltimore City.....	31,640	May 31	83	1344
Coffee. Roasted and ground.....	Enterprise Coffee Company of Baltimore City.....	31,692	June 14	83	1657
Coffee. Roasted and ground.....	E. Rosedale.....	31,803	July 12	84	308
Coffee roasted in the bean.....	American Coffee Company.....	31,094	Jan. 4	82	183
Coffee. Roasted or prepared.....	Wolfe, McMillan & Co.....	32,260	Dec. 20	85	1901
Coffee substitutes.....	L. H. Hewitt and E. P. Growney.....	31,093	Jan. 4	82	183
Coffee substitutes made of grain.....	Genesee Pure Food Company.....	31,172	Jan. 25	82	594
Colic and lung-fever cure.....	W. O. Edmund.....	31,532	May 10	83	913
Collars and cuffs.....	F. E. Fay.....	31,517	May 10	83	911
Collars, cuffs, and shirt-fronts.....	Z. Newshuler.....	32,222	Dec. 13	85	1734
Color and varnish.....	"Le Ripolin," (Société Anonyme Française de Peintures Laquées et d'Enduits Sous-Marins, Procédés Lefranc & Briegleb Réunis.).....	32,042	Oct. 11	85	285
Color and varnish.....	"Le Ripolin," (Société Anonyme Française de Peintures Laquées et d'Enduits Sous-Marins, Procédés Lefranc & Briegleb Réunis.).....	32,043	Oct. 11	85	285
Coloring materials.....	Schoellkopf Aniline and Chemical Co.....	31,405	Mar. 8	82	1558
Coloring-matter or dyestuffs and medical compounds.....	Farbenfabriken, vormals Friedr. Bayer & Co.....	31,422	Mar. 15	82	1686
Combs.....	R. F. Tochtermann.....	31,546	May 17	83	1064
Commutator-bars.....	W. B. Cleveland.....	31,328	Feb. 22	82	1208
Compound for the cure of dyspepsia.....	B. Hill.....	31,553	May 17	83	1064
Compounds and liquid medicines for certain named diseases.....	F. A. Osineup.....	32,117	Nov. 1	85	774
Compounds for the cure of nervous debility.....	Pearl Medicine Co.....	31,924	Aug. 30	84	1432
Condiment.....	Vaupel Samaritan Company.....	31,882	Aug. 16	84	1140
Condiments. Certain named liquid.....	Horton Cato Manufacturing Company.....	32,297	Dec. 27	85	2089
Confected popcorn.....	S. D. Cone.....	31,211	Feb. 1	82	748
Confectionery.....	Royal Remedy and Extract Company.....	32,230	Dec. 13	85	1735
Confectionery. Certain named.....	J. Kranz.....	32,171	Nov. 22	85	1219
Confectionery. Certain named.....	Sprague, Warner & Company.....	31,789	July 5	84	144
Confections. Iced.....	Davis Bros.....	31,722	June 21	83	1798
Consumption cure.....	Kalle & Co.....	32,177	Nov. 22	85	1220
Consumption cure.....	Kalle & Co.....	32,178	Nov. 22	85	1220
Consumption cure.....	Kalle & Co.....	32,287	Dec. 27	85	2088
Copper in ingots, bars, and other unmanufactured forms.....	Mountain Copper Company.....	31,564	May 17	83	1065
Copying-book and copying-paper.....	C. J. Cohen.....	31,957	Sept. 13	84	1725
Corks and finished cork articles. Bottle.....	Armstrong Cork Company.....	32,127	Nov. 8	85	932
Cornmeal.....	B. G. Pollard.....	31,830	Aug. 2	84	804
Cornmeal and flour.....	Lexington Roller Mills Company.....	32,073	Oct. 18	85	451
Corn-plaster.....	Williamson & Watts.....	31,998	Sept. 27	84	2014
Corset-clasps, dress-shields, machine silk and thread, hooks and eyes, dress-stays, and hose-supporters.....	Jordan, Marsh & Co.....	31,470	Apr. 19	83	441
Corsets.....	E. J. Montigny.....	31,678	June 14	83	1656
Corsets.....	Ottenheimer Bros.....	31,376	Mar. 8	82	1556
Corsets.....	Ottenheimer Bros.....	31,977	Sept. 20	84	1866
Corsets.....	E. Schweinburg.....	31,742	June 28	83	1987
Corsets.....	E. Schweinburg.....	31,743	June 28	83	1987



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Corsets.....	E. Schweinburg.....	31,829	Aug. 2	84	804
Corsets.....	H. H. Todd.....	31,099	Jan. 4	82	183
Corsets.....	Warner Brothers Company.....	31,795	July 12	84	307
Corsets.....	Worcester Corset Company.....	31,286	Feb. 22	82	1204
Corsets.....	Worcester Corset Company.....	32,085	Oct. 25	85	607
Corsets, waists, paniers, forms, and suspenders. Women's.	E. J. Weeks.....	31,375	Mar. 8	82	1556
Cotton-bales. Cylindrical.	American Cotton Company.....	31,380	Mar. 8	82	1556
Cotton lint and cotton-seed.	T. A. Jackson.....	31,290	Feb. 22	82	1205
Cotton-napped fabric.	C. Whitman & Co.....	31,254	Feb. 15	82	1046
Cotton sheetings.	Boston Manufacturing Company.....	31,612	May 31	83	1342
Cotton sheetings.	Boston Manufacturing Company.....	31,613	May 31	83	1342
Crackers.....	Thomas & Clarke.....	31,948	Sept. 6	84	1582
Culinary utensils. Certain.	C. M. Avery.....	31,431	Mar. 22	82	1817
Cure and preventive for venereal diseases.	O. A. Hensel.....	31,184	Feb. 1	82	745
Cure for rheumatism.	J. M. Hunnicutt.....	32,025	Oct. 4	85	147
Cutlery. All kinds of.	G. C. Hatch.....	31,275	Feb. 15	82	1048
Cutlery and cutting-tools.	Dillemann, Fils & Co.....	31,995	Sept. 20	84	1868
Cycles, as bicycles, tricycles, and quadricycles, and light vehicles of similar character and their parts.	Adams & Westlake Company.....	31,327	Feb. 22	82	1208
Cycles, wheels, bicycle-hubs, and other parts.	Buehler & Platt.....	31,132	Jan. 11	82	335
Cyclometers.	F. Fournier & Knopf.....	31,418	Mar. 8	82	1560
Dairy products.	R. M. Burnett.....	32,075	Oct. 18	85	452
Dandruff-destroyer and new-hair grower. Antiseptic.	J. H. Austin.....	31,113	Jan. 11	82	333
Decorations. Mural.	Benjamin Moore & Company.....	31,906	Aug. 30	84	1431
Dental cement.	A. Abraham.....	31,299	Feb. 22	82	1206
Dentifrices.	Hall & Ruckel.....	31,681	June 14	83	1656
Diamonds, precious stones, jewelry, silverware, gold ware, and plated ware.	Duhme Jewelry Company.....	32,219	Dec. 13	85	1734
Dietetic albuminous preparations.	Bauer & Cie.....	31,688	June 14	83	1656
Dietetic preparations of albumen.	Pharmaceutisches Institut Ludwig Wilhelm Gans.....	32,145	Nov. 8	85	934
Disinfectants.	S. B. Allison.....	31,300	Feb. 22	82	1206
Disinfectants, germicides, or deodorizing compounds.	H. S. Blackmore.....	31,758	June 28	83	1989
Disinfecting and antiseptic preparations.	P. Rudisch.....	31,685	June 14	83	1656
Disinfecting, antiseptic, and asepticizing preparations.	Firm of C. Raspe.....	31,950	Sept. 6	84	1582
Dolls.	Hamburger & Company.....	31,614	May 31	83	1342
Drapery fabric. Printed.	Eddystone Manufacturing Company.....	31,647	June 7	83	1508
Dress goods other than silk goods.	Sweester, Pembroke & Co.....	32,283	Dec. 27	85	2088
Dress-shields.	Kora Company.....	31,959	Sept. 13	84	1725
Drills, reamers, taps, and the like. Twist.	Cleveland Twist Drill Co.....	31,414	Mar. 8	82	1559
Drugs for treatment of diseases of the lungs, throat, and air-passages. Mixture of.	Valley Drug Co.....	31,227	Feb. 8	82	891
Dry batteries.	Non-Polarizing Dry Battery Company.....	31,240	Feb. 8	82	892
Dry goods. Certain named.	Devoe & Peck.....	31,741	June 28	83	1987
Drying-machines.	Philadelphia Textile Machinery Company.....	31,821	July 19	84	506
Dung. Artificial.	Farbwerke, vormals Meister, Lucius & Brüning.....	32,212	Dec. 6	85	1582
Dye. Cutch or catechu.	Sarawak Cutch Company.....	31,920	Aug. 30	84	1432
Dyestuffs.	Farbenfabriken of Elberfeld Company.....	31,403	Mar. 8	82	1558
Dyestuffs.	Farbenfabriken of Elberfeld Company.....	32,030	Oct. 4	85	148
Dyestuffs applicable in coloring and printing processes.	Farbwerke, vormals Meister, Lucius & Brüning.....	32,209	Dec. 6	85	1582
Dynamite, dynamite-cartridges, blasting-gelatin, detonating caps, and fuses.	Ætna Powder Company.....	31,523	May 10	83	912
Dyspepsia, catarrh, liver and kidney, pain and cough cure, pills, and liniment.	M. De Tar.....	31,987	Sept. 20	84	1867
Dyspepsia cure.	E. C. De Witt & Company.....	32,134	Nov. 8	85	933
Dyspepsia-pads and pads for cure of disease by absorption.	C. Deyoung.....	31,530	May 10	83	912
Egg-meat. Preserved, prepared, or desiccated.	C. F. La Mont.....	31,449	Mar. 29	82	1986
Elastic fabrics.	Archibald Turner & Company.....	31,165	Jan. 25	82	593
Elastic goring, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	32,126	Nov. 8	85	932
Elastic goring, cords, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	31,213	Feb. 8	82	890
Elastic goring, cords, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	31,214	Feb. 8	82	890
Elastic goring, cords, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	31,888	Aug. 23	84	1279
Elastic goring, cords, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	31,889	Aug. 23	84	1279
Elastic goring, cords, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	31,890	Aug. 23	84	1279
Elastic goring, cords, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	31,891	Aug. 23	84	1279
Elastic goring, cords, braids, and narrow webs.	Glendale Elastic Fabrics Company.....	31,892	Aug. 23	84	1279
Electrical accumulators.	W. Majert.....	31,199	Feb. 1	82	747
Electrical specialties. Certain named.	Ohio Brass Company.....	32,239	Dec. 13	85	1736
Elixirs, laxatives, alteratives, and tonics.	Resinol Chemical Co.....	31,873	Aug. 16	84	1139
Embalming fluid.	Max Huncke Chemical Company.....	31,838	Aug. 2	84	805
Embroidery-rings.	Butler Hard Rubber Company.....	31,143	Jan. 11	82	336
Emulsions for use in conditions of malnutrition.	Standard Emulsion Company.....	31,168	Jan. 25	82	593
Enamel. Artificial.	Johnson & Lund.....	31,352	Mar. 1	82	1415
Engines.	Power Specialty Co.....	31,569	May 17	83	1066
Engines and threshing machinery.	J. I. Case Threshing Machine Co.....	31,677	June 7	83	1510
Ethereal preparations for producing local anesthesia.	McKesson & Robbins.....	32,275	Dec. 20	85	1903
Explosive powder.	New York and New England Titanic Smokeless Powder Company.....	32,182	Nov. 22	85	1220
Explosives and cartridges.	Explosivstoff-Werke Spirallit, Gesellschaft mit Beschränkter Haftung.....	31,673	June 7	83	1510
Extract of meat, poultry, fish, soups, cream and other dairy produce, and food preparations.	Valentine Extract Company.....	31,448	Mar. 29	82	1985
Extracts in tablet or solid form and tinctures and spirits in liquid form.	A. Mishler.....	31,750	June 28	83	1988
Extracts. Lemon, vanilla, and orange.	Sprague, Warner & Company.....	31,438	Mar. 22	82	1818
Extracts of yeast and extracts of meat.	J. Simpson.....	31,437	Mar. 22	82	1818
Eyeglasses. Pince-nez.	George Culver, Limited.....	31,828	Aug. 2	84	804



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Eye-tablets.....	H. M. Goodhue.....	31,877	Aug. 16	84	1140
Face and skin applications.....	I. Wisse.....	31,188	Feb. 1	82	746
Farinaceous compound used as a dessert.....	W. P. Clotworthy.....	31,478	Apr. 19	83	442
Fertilizer and insect-destroyer. Chemical tree and plant.....	W. E. Harvey.....	31,187	Feb. 1	82	746
Fertilizer. Artificial.....	Farbenfabriken, vormals Friedr. Bayer & Co.....	31,409	Mar. 8	82	1559
Fertilizers. Certain artificial.....	Martellin Gesellschaft mit Beschränkter Haftung.....	32,148	Nov. 8	85	934
Fertilizers. Certain artificial.....	Martellin Gesellschaft mit Beschränkter Haftung.....	32,149	Nov. 8	85	934
Fertilizers. Chemical.....	G. W. Coggeshall.....	31,866	Aug. 16	84	1140
Fertilizers. Manufactured.....	Michigan Carbon Works.....	31,354	Mar. 1	82	1415
Fibrous compositions. Certain named.....	P. C. Holmes Company.....	31,870	Aug. 16	84	1139
Fibrous material for stuffing purposes.....	West India Fibre Company.....	31,550	May 17	83	1064
Files, desks, cabinets, and other receptacles for papers and documents. Paper-.....	Brown & Besly.....	31,765	June 28	83	1990
Fire-crackers.....	Jacobs, Whitcomb & Co.....	32,072	Oct. 18	85	451
Fire-crackers.....	E. J. & L. Nordlinger.....	31,598	May 24	83	1205
Fire-crackers.....	E. J. & L. Nordlinger.....	31,599	May 24	83	1205
Fire-extinguishing chemical compound.....	P. C. Freet.....	32,207	Dec. 6	85	1582
Fire-extinguishing compounds and receptacles therefor.....	Monarch Fire Appliance Co.....	31,521	May 10	83	911
Fish of all kinds. Whole, cut, boneless, fresh, salt, smoked, and canned.....	J. R. Neal & Co.....	31,313	Feb. 22	82	1207
Flash-lights. Combustible powders for.....	G. P. Parton.....	31,684	June 14	83	1656
Flavoring and toilet articles. Certain.....	Cuitoit Co.....	31,934	Sept. 6	84	1580
Flavoring compound for syrup for soda-water.....	B. Wilson.....	31,833	Aug. 2	84	804
Flavoring compounds.....	Hance Bros. & White.....	31,348	Mar. 1	82	1414
Floor and wood finish.....	Glidden Varnish Company.....	31,860	Aug. 9	84	980
Flour.....	Herbst Brothers.....	32,093	Oct. 25	85	607
Flour.....	Herbst Brothers.....	32,094	Oct. 25	85	608
Flour.....	Hezel Milling Company.....	32,095	Oct. 25	85	608
Flour and bread therefrom.....	Robinson - Danforth Commission Company.....	31,989	Sept. 20	84	1867
Flour. Wheat.....	Consolidated Milling Company.....	31,690	June 14	83	1657
Flour. Wheat.....	J. A. Ermen.....	31,170	Jan. 25	82	593
Flour. Wheat.....	J. A. Ermen.....	31,310	Feb. 22	82	1207
Flour. Wheat.....	J. B. M. Kehlor.....	31,349	Mar. 1	82	1414
Flour. Wheat.....	W. H. Ketzbeck & Co.....	31,556	May 17	83	1065
Flour. Wheat.....	Kunhardt & Co.....	31,350	Mar. 1	82	1414
Flour. Wheat.....	Larkin Sons.....	31,217	Feb. 8	82	890
Flour. Wheat.....	Noblesville Milling Company.....	31,557	May 17	83	1065
Flour. Wheat.....	Pearl Roller Mill Company.....	32,013	Sept. 27	84	2015
Flour. Wheat.....	E. O. Stanard Milling Company.....	31,949	Sept. 6	84	1582
Flour. Wheat.....	C. E. Wellenkamp.....	31,727	June 21	83	1799
Fluid-pressure regulators having ball-bearing valves.....	Cleveland Faucet Company.....	32,195	Nov. 29	85	1396
Food and iron preparation. Scientific.....	Farbenfabriken, vormals Friedr. Bayer & Co.....	31,386	Mar. 8	82	1557
Food and iron preparation. Scientific.....	Farbenfabriken, vormals Friedr. Bayer & Co.....	31,389	Mar. 8	82	1557
Food and weak astringent. Scientific.....	Farbenfabriken, vormals Friedr. Bayer & Co.....	31,387	Mar. 8	82	1557
Food and weak astringent. Scientific.....	Farbenfabriken, vormals Friedr. Bayer & Co.....	31,388	Mar. 8	82	1557
Food. Compressed.....	American Compressed Food Company.....	31,788	July 5	84	144
Food extracts and preparations. Certain named.....	C. R. Valentine.....	31,879	Aug. 16	84	1140
Food for human consumption. Cereal.....	Postum Cereal Company.....	31,689	June 14	83	1657
Food for poultry and birds.....	G. E. Thayer.....	31,439	Mar. 22	82	1818
Food. Infants' and medicinal.....	C. A. Pillsbury.....	31,089	Jan. 4	82	182
Food. Malted.....	Munyon's Homoeopathic Home Remedy Company.....	31,090	Jan. 4	82	182
Food preparations containing casein.....	Chemische Fabrik auf Actien, vormals E. Schering.....	31,390	Mar. 8	82	1557
Food products. Cereal.....	H-O (Hornby's Oatmeal) Company.....	31,555	May 17	83	1065
Food products. Cereal.....	H-O (Hornby's Oatmeal) Company.....	31,577	May 24	83	1204
Food. Wheat breakfast.....	Pillsbury - Washburn Flour Mills Company.....	31,575	May 24	83	1203
Food. Wheat breakfast.....	Pillsbury - Washburn Flour Mills Company.....	31,576	May 24	83	1203
Foods and relishes. Certain.....	C. R. Valentine.....	31,507	May 3	83	742
Foods and relishes. Certain.....	C. R. Valentine.....	31,508	May 3	83	742
Foods prepared from wheat. Cereal.....	M. A. Newmark & Co.....	32,298	Dec. 27	85	2089
Footwear, including boots, shoes, gaiters, overgaiters, overshoes, slippers, and rubbers.....	Parker, Holmes & Co.....	31,869	Aug. 16	84	1139
Forgings, wrenches, and bicycle parts. Drop.....	Springfield Drop Forging Company.....	31,645	May 31	83	1344
Fruits and canned-food products. Dried.....	Seggermann Bros.....	32,047	Oct. 11	85	286
Fruits and vegetables.....	Erie Preserving Company.....	31,824	July 26	84	646
Fruits. Citrus and deciduous.....	Riverside Navel Orange Company.....	32,142	Nov. 8	85	933
Fruits. Citrus and deciduous.....	Riverside Navel Orange Company.....	32,143	Nov. 8	85	934
Fruits. Dried.....	Seggermann Bros.....	32,044	Oct. 11	85	285
Fruits. Dried.....	Seggermann Bros.....	32,045	Oct. 11	85	285
Fruits. Dried.....	Seggermann Bros.....	32,046	Oct. 11	85	286
Fruits. Dried.....	Seggermann Bros.....	32,091	Oct. 25	85	607
Fruits. Dried.....	J. W. Teasdale & Company.....	31,096	Jan. 4	82	183
Fur with a body of knitted or woven fabric and fur on both faces. Artificial.....	C. W. Grosjean.....	31,457	Apr. 12	83	293
Furniture. Household and office.....	Phoenix Furniture Company.....	31,410	Mar. 8	82	1559
Gas-burners.....	E. and E. B. Adler.....	31,366	Mar. 1	82	1416
Gas generators and their parts. Acetylene.....	Solar Gas and Machine Company.....	32,152	Nov. 8	85	934
Gelatinous compounds.....	C. P. Walley.....	31,477	Apr. 19	83	442
Gin.....	J. de Kuyper & Son.....	31,816	July 19	84	505
Gin. Holland.....	Aspell & Company.....	32,009	Sept. 27	84	2015
Gin. Old Tom.....	Aspell & Company.....	32,008	Sept. 27	84	2015
Glass and metal polishes.....	United States Chemical Manufacturing Company of New York.....	32,266	Dec. 20	85	1902
Glass. Compound for the treatment of.....	H. Marangolo.....	31,191	Feb. 1	82	746



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Title.	Name.	No.	Date.	Official Gazette.	
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Glass. Rolled plate and wired	Mississippi Glass Company	32,102	Nov. 1	85	773
Glass. Rolled sheet and wired	Mississippi Glass Company	31,672	June 7	83	1510
Glassware	E. A. Power & Co	31,710	June 21	83	1767
Glassware. Opal	C. F. Monroe Company	31,627	May 31	83	1343
Glove and mitten fasteners	A. N. Johns	31,177	Feb. 1	82	745
Gloves	B. Altman	31,548	May 17	83	1064
Gloves	Fownes Brothers & Co	32,121	Nov. 8	85	932
Gloves	Mills & Gibb	31,258	Feb. 15	82	1046
Gloves and mittens	American Glove Company	31,931	Sept. 6	84	1580
Gloves. Ladies', misses', and gentlemen's kid	J. Wanamaker	31,794	July 12	84	307
Gloves. Men's and women's	F. Loeser & Co	32,249	Dec. 20	85	1900
Glue. Liquid	E. J. Mills	31,192	Feb. 1	82	746
Glues, sizes, paints, and colors	J. A. & W. Bird & Co	32,194	Nov. 29	85	1396
Golf-balls	Whitman & Barnes Manufacturing Company	32,248	Dec. 13	85	1736
Golf balls and clubs	W. Hillman	31,771	July 5	84	142
Groceries	Clark-Jewell-Wells Company	31,436	Mar. 22	82	1817
Groceries. Certain named	Brewster, Crittenden & Co	31,726	June 21	83	1799
Groceries. Certain named	Griggs, Cooper & Co	31,881	Aug. 16	84	1140
Groceries. Certain named	F. H. Leggett & Co	31,725	June 21	83	1799
Groceries. Certain named	S. S. Pierce Company	32,109	Nov. 1	85	773
Guano	Bussey & Son	32,050	Oct. 11	85	286
Gum. Chewing	H. Feder	31,491	Apr. 26	83	592
Gum. Chewing	E. A. Frame	31,942	Sept. 6	84	1581
Gum. Chewing	Grove Company	31,880	Aug. 16	84	1140
Gum. Chewing	Smith & Woods	32,291	Dec. 27	85	2088
Hair-invigorator	N. V. Martin	32,290	Dec. 27	85	2088
Hair. Toilet and medicinal preparation for the	Bishop Chemical Company	31,399	Mar. 8	82	1558
Hair-tonic	J. E. Jones	31,798	July 12	84	307
Hair-tonic	Mülhens & Kropff	31,682	June 14	83	1656
Hams, bacon, shoulders, and canned, cured, and smoked meats	Jacob Dold Packing Company	31,914	Aug. 30	84	1431
Hams, bacon, shoulders, lard, smoked beef, dried beef, and tongues. Hog and beef products, such as	J. H. Michener & Co	31,098	Jan. 4	82	183
Hams, bacon, shoulders, lard, smoked beef, dried beef, and tongues. Hog and beef products, such as	J. H. Michener & Co	31,146	Jan. 18	82	459
Hardware, excluding roofing-tin. Builders'	C. H. Ocumpaugh	31,200	Feb. 1	82	747
Harmonicas	F. Strauss	31,243	Feb. 8	82	892
Harmonicas	Strauss, Sachs & Co	31,128	Jan. 11	82	334
Harness-dressing	F. J. Oakes	31,193	Feb. 1	82	746
Harvesting hay and cereals. Machinery for	Plano Manufacturing Company	31,775	July 5	84	143
Harvesting hay and cereals. Machinery for	Plano Manufacturing Company	31,887	Aug. 16	84	1140
Hats and bonnets. Trimmed	E. C. P. Hume	31,257	Feb. 15	82	1046
Hats and caps	E. M. Knox	31,332	Mar. 1	82	1413
Hats, caps, and children's headwear. Cloth	F. P. Heid & Co	31,255	Feb. 15	82	1046
Hats, caps, and children's headwear. Cloth	F. P. Heid & Co	31,256	Feb. 15	82	1046
Hats. Ladies' straw and felt	Chambre Syndicale des Fabricants de Chapeaux de Paille et Feutre pour Dames et Fournitures pour Modes	31,997	Sept. 27	84	2014
Hats. Men's, women's, and children's	D. and A. Oppenheimer	32,120	Nov. 8	85	932
Hats. Straw	Kurtz, Stuboeck & Co	31,287	Feb. 22	82	1204
Hay. Baled	Saginaw Milling Co	31,994	Sept. 20	84	1867
Headache cure or remedy	G. H. Burke	32,263	Dec. 20	85	1902
Heaters. Air-tight wood	Culter & Proctor Stove Company	31,367	Mar. 1	82	1416
Heel-ball, black-ball, and polishing wax	P. Ostermayer	32,265	Dec. 20	85	1902
Heel-counters	Morton & Lyons	32,226	Dec. 13	85	1735
Herb-tea	Brown Medicine Co	31,223	Feb. 8	82	891
Herring	De Zeeuw & Van Raalt	32,108	Nov. 1	85	773
Honey and wax	J. E. Hetherington	31,218	Feb. 8	82	890
Hooks and eyes	American Pin Company	31,863	Aug. 9	84	980
Hooks and eyes	American Pin Company	32,033	Oct. 4	85	148
Horns used in connection with sound-producing devices	J. Kaiser	31,772	July 5	84	142
Horse tail-holders	M. D. Saxe	31,242	Feb. 8	82	892
Horseshoe-nails	Putnam Nail Company	32,218	Dec. 6	85	1582
Horseshoes	H. B. Haigh	32,015	Sept. 27	84	2016
Hose, belting, packing, valves, gaskets, and springs	Revere Rubber Company	31,930	Sept. 6	84	1580
Hose. Hydraulic	Eureka Fire Hose Company	32,058	Oct. 18	85	450
Hose. Hydraulic	Eureka Fire Hose Company	32,059	Oct. 18	85	450
Hose. Hydraulic	Eureka Fire Hose Company	32,060	Oct. 18	85	450
Hose. Hydraulic	Eureka Fire Hose Company	32,061	Oct. 18	85	450
Hose. Hydraulic	Eureka Fire Hose Company	32,062	Oct. 18	85	450
Hose. Hydraulic	Eureka Fire Hose Company	32,063	Oct. 18	85	450
Hosiery	Missoula Mercantile Company	31,549	May 17	83	1064
Hosiery	Racine Knitting Co	31,333	Mar. 1	82	1413
Hygienic goods. Certain named ladies'	Hygienic Manufacturing Co	31,289	Feb. 22	82	1205
Ink. Black	Thaddeus Davids Company	31,658	June 7	83	1509
Ink. Indelible	Thaddeus Davids Company	31,232	Feb. 8	82	892
Inks. India	Carter's Ink Company	31,111	Jan. 4	82	184
Insect-destroyer	R. R. Smith	31,921	Aug. 30	84	1432
Insect-repellents	M. J. Reedy	32,112	Nov. 1	85	774
Instep-arch supporters	W. H. Phelps & Co	31,139	Jan. 11	82	335
Insulated conductors	India Rubber and Gutta Percha Insulating Company	31,134	Jan. 11	82	335
Insulated wires	Safety Insulated Wire and Cable Company	31,329	Feb. 22	82	1208
Iron. Pig	Woodstock Iron Works	31,675	June 7	83	1510
Iron, steel, and manufactures	American Tin Plate Company	31,279	Feb. 15	82	1048
Iron, steel, and manufactures	E. Hammesfahr	32,082	Oct. 18	85	452
Ironing-machines	F. E. Fay	31,542	May 10	83	914
Ivory. Certain named articles of	F. Grote & Co	32,128	Nov. 8	85	932
Jelly, powdered gelatin, gelatins, flavoring powders and extracts, and mustard salad-dressing. Powdered dessert	J. Laukota	31,145	Jan. 18	82	459
Jewelry	J. Schwarzkopf and J. Solinger	31,709	June 21	83	1797
Jewelry. Certain named	Esser & Barry	32,119	Nov. 8	85	932
Kaleidoscopes	G. Wale	32,306	Dec. 27	85	2090



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Kid. Glazed	Keystone Leather Company	31,161	Jan. 25	82	593
Knit undergarments	Swits Condé Company	32,123	Nov. 8	85	932
Knives, spoons, shaves, and shoe-tools	Hyde Manufacturing Company	32,034	Oct. 4	85	148
Kumiss. Sterilized	H. P. Connell	31,125	Jan. 11	82	334
Laces. Leather shoe or porpoise	P. Goldstein	31,103	Jan. 4	82	184
Ladies' wear. Certain named articles of	F. K. Hickok	31,609	May 31	83	1342
Lamp chimneys	Thomas Evans Company	31,540	May 10	83	913
Lamp chimneys and burners	G. A. Hall	32,156	Nov. 15	85	1075
Lamps. Acetylene-gas	Badger Brass Manufacturing Company.	31,773	July 5	84	142
Lamps and candles	Clarkes-Pyramid and Fairy Light Company.	31,864	Aug. 9	84	980
Lamps. Miners'	G. Anton	32,097	Oct. 25	85	608
Lamps wherein gas is generated from metallic carbids and charges of metallic carbids for use with such lamps.	Buffington Light Company	31,417	Mar. 8	82	1560
Lard	Brown & Harris	31,787	July 5	84	144
Lavatory, bath, and sink fittings	Randolph & Clowes	32,052	Oct. 11	85	286
Lavatory, bath, and sink fittings	Randolph & Clowes	32,150	Nov. 8	85	934
Leather	G. S. Wolff	31,519	May 10	83	911
Leather and leather lacings	J. C. Hagan	31,178	Feb. 1	82	745
Leather. Certain named shoe-	Herman Zöhrlaut Leather Company.	31,745	June 28	83	1987
Leather. Chamois and other finished	E. A. Landell, Jr	31,468	Apr. 19	83	441
Leather-dressing	A. E. Little & Co	31,353	Mar. 1	82	1415
Leather goods. Certain artificial	G. Brigalant	31,379	Mar. 8	82	1556
Leather in black. Chrome-tanned shoe-	Herman Zöhrlaut Leather Company.	31,746	June 28	83	1987
Leather. Manufactured imitation	Pantasote Leather Company	32,125	Nov. 8	85	932
Leather of all kinds and articles made from the same	Rice & Hutchins	31,252	Feb. 15	82	1045
Leather polishing and dressing compounds	I. D. Smith & Co	31,490	Apr. 26	83	592
Leather waterproof. Substances for rendering	G. W. Hansen	31,440	Mar. 22	82	1818
Leathers. Light-weight	R. H. Foerderer	31,978	Sept. 20	84	1866
Licorice. Manufactured	Mellor & Rittenhouse Company	32,255	Dec. 20	85	1900
Lime	Washington Building Lime Company.	31,308	Feb. 22	82	1206
Linen fabric. Certain named woven	Union Linen Company	31,810	July 19	84	505
Liniment	C. R. Roswell	31,857	Aug. 9	84	980
Liniment	L. Schuenemann	31,966	Sept. 13	84	1725
Liniment	Smith, Kline & French Company	31,585	May 24	83	1204
Liniment	Smith, Kline & French Company	31,586	May 24	83	1204
Liniment	J. T. Steel	31,503	May 3	83	741
Liniment	Williams & Co.	31,298	Feb. 22	82	1205
Liniments	F. S. Mason	31,264	Feb. 15	82	1046
Linings	J. W. Goddard & Sons	31,649	June 7	83	1508
Liquid driers	Pratt & Lambert	31,355	Mar. 1	82	1415
Liquid driers	Fratt & Lambert	31,356	Mar. 1	82	1415
Locks	Yale & Towne Manufacturing Company.	31,843	Aug. 2	84	805
Loom-heddle leashes	N. and J. Chaize	31,749	June 28	83	1988
Lotion for the cure of venereal diseases	R. L. Eves	31,395	Mar. 8	82	1558
Lotion or preparation for the skin. Certain antiseptic and healing	T. H. Sayre	31,488	Apr. 26	83	591
Lotions. Skin-	F. S. Williams	31,346	Mar. 1	82	1414
Lozenges for allaying thirst	Gregory & Co	32,005	Sept. 27	84	2015
Lozenges. Perfumed	Searle & Hereth Company	32,026	Oct. 4	85	148
Lubricants. Certain named	J. Faulkner	31,939	Sept. 6	84	1581
Lubricating-grease	Inland Oil Company	31,231	Feb. 8	82	891
Lumber	H. L. Berry Company	31,762	June 28	83	1989
Lumber-mill and log products. Certain	Hall & Munson Company	31,472	Apr. 19	83	441
Lumber. Pine	Texas Tram and Lumber Company.	32,153	Nov. 8	85	934
Lumber. Yellow-pine	Parodi & Co	31,955	Sept. 6	84	1582
Lye and potash	Champion Chemical Works	31,984	Sept. 20	84	1867
Lye or potash	Eagle Lye Works	31,883	Aug. 16	84	1140
Machine-tools	Schuchardt & Schütte	31,806	July 12	84	308
Magazine containing stories and general literature	Arkell Publishing Company	31,340	Mar. 1	82	1414
Magazine devoted to the interests of the dental profession.	Consolidated Dental Manufacturing Company	31,341	Mar. 1	82	1414
Malt and cod-liver oil. Compound of	Allen & Hanburys	31,504	May 3	83	741
Malt extract	M. K. Goetz Brewing Company	31,269	Feb. 15	82	1047
Malt. Fluid extract of	Allen & Hanburys	31,694	June 14	83	1657
Malt for brewers' use	A. Schwill & Co	31,968	Sept. 13	84	1726
Mantles. Incandescent	Welsbach Light Company	31,140	Jan. 11	82	335
Matches	Diamond Match Company	31,463	Apr. 12	83	293
Matches. Friction-	Diamond Match Company	31,499	May 3	83	741
Matches. Friction-	Diamond Match Company	31,916	Aug. 30	84	1431
Matches made of pasteboard	Herzfelder & Fröhlich	32,296	Dec. 27	85	2089
Matches. Safety-	Aktiebolaget Södertelje Tändsticksfabrik.	31,462	Apr. 12	83	293
Measuring appliances	Standard Garment Cutting Company.	31,285	Feb. 22	82	1204
Meat and vegetable cutters. Rotary	Landers, Frary & Clark	31,452	Mar. 29	82	1986
Meat either alone or in connection with chocolate, paste, biscuits, or other articles. Powdered	A. Moyet	31,169	Jan. 25	82	593
Meats and compounds. Certain named	Swift & Company	31,578	May 24	83	1204
Medical compositions, embrocations, extracts of sarsaparilla, stomachic tinctures, bitters, lozenges, pastiles, and pills.	F. A. Richter & Co	31,167	Jan. 25	82	593
Medical compound	R. Febery	31,297	Feb. 22	82	1205
Medical compound for the cure of rheumatism	W. E. Ellis	31,755	June 28	83	1988
Medical compound for the removal of hair from the skin, and for skin, scalp, and hair affections.	H. W. Crolley	31,964	Sept. 13	84	1725
Medical compounds. Certain named	L. W. Gans	32,242	Dec. 13	85	1736
Medical compounds. Certain named	L. Gerstle	31,533	May 10	83	913
Medical compounds. Certain named	Weaver-Markel Chemical Company	32,136	Nov. 8	85	933
Medical compounds for external use	Phoebus & Simpson	31,396	Mar. 8	82	1558
Medical plasters	H. Terry	31,835	Aug. 2	84	804
Medical preparation	Cowart, Justice & Co	31,224	Feb. 8	82	891



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Title.	Name.	No.	Date.	Official Gazette.	
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Medical preparation. Certain named.....	J. Linden .....	31,713	June 21	83	1797
Medical preparation for the cure of certain named diseases.	A. Kiefer Drug Company .....	31,115	Jan. 11	82	333
Medical preparation for the cure of diseases of the liver.....	A. Kiefer Drug Company .....	31,116	Jan. 11	82	333
Medical preparations destructive of bacteria.....	C. Patin .....	32,020	Oct. 4	85	147
Medical remedies for gout and rheumatism.....	F. C. Fowler .....	32,133	Nov. 8	85	933
Medicaments for the skin.....	S. R. Jackson .....	32,167	Nov. 15	85	1076
Medicaments having as a base fluid extract of malt.....	Allen & Hanburys.....	31,459	Apr. 12	83	293
Medicated confections, a worm specific.....	Johnston, Holloway & Co .....	31,584	May 24	83	1204
Medicated ointment for the skin.....	Johnston, Holloway & Co .....	31,584	May 10	83	913
Medicated pellets to operate upon the human liver.....	Leffingwell Company .....	31,293	Feb. 22	82	1205
Medicated syrup for diseases of the lungs and throat.....	A. Geyler .....	32,272	Dec. 20	85	1903
Medicated tonic wines.....	M. G. Dadirrian .....	31,637	May 31	83	1344
Medicated whisky.....	Williams & Newman .....	31,718	June 21	83	1798
Medicinal beverage.....	N. J. Macdonald.....	32,070	Oct. 18	85	451
Medicinal compound. Certain named.....	D. F. Brown .....	32,241	Dec. 13	85	1736
Medicinal compounds.....	P. Taves .....	32,243	Dec. 13	85	1736
Medicinal confections, beverages, and preparations. Certain named.....	Oberhaeuser & Landauer .....	31,856	Aug. 9	84	980
Medicinal herb compounds prepared after a certain named system.....	E. Meyer-Bieck .....	31,661	June 7	83	1509
Medicinal herbs.....	J. L. Hopkins & Company .....	32,069	Oct. 18	85	451
Medicinal liquid. Certain named.....	G. B. Fisher .....	31,817	July 19	84	506
Medicinal mineral water. Certain named.....	Matchless Mineral Water Company .....	31,834	Aug. 2	84	804
Medicinal mixture to aid digestion.....	Maltbie Chemical Company .....	31,896	Aug. 23	84	1279
Medicinal pomade or ointment.....	A. L. Taddéi .....	31,872	Aug. 16	84	1139
Medicinal powder for the cure of headache.....	Daisy, Limited .....	31,160	Jan. 18	82	460
Medicinal powder for the cure of headache.....	Daisy, Limited .....	32,269	Dec. 20	85	1902
Medicinal powder for the cure of headache.....	Daisy, Limited .....	32,270	Dec. 20	85	1902
Medicinal powder for the cure of headache.....	Daisy, Limited .....	32,271	Dec. 20	85	1902
Medicinal preparation.....	Fry-Armstrong Co .....	31,262	Feb. 15	82	1046
Medicinal preparation.....	J. H. Zeilin & Company .....	31,228	Feb. 8	82	891
Medicinal preparation. Certain named proprietary.....	Dios Chemical Company .....	31,454	Apr. 5	83	154
Medicinal preparation. Emulsion.....	Sun Chemical Co .....	31,295	Feb. 22	82	1205
Medicinal preparation in the form of a flour for certain disorders.....	C. C. Jerome .....	31,923	Aug. 30	84	1432
Medicinal preparations.....	B. E. McGale .....	31,151	Jan. 18	82	459
Medicinal preparations.....	B. E. McGale .....	31,185	Feb. 1	82	745
Medicinal preparations and medicated foods.....	Allen & Hanburys.....	31,505	May 3	83	741
Medicinal preparations and medicated foods.....	Allen & Hanburys.....	31,506	May 3	83	741
Medicinal preparations and medicinal toilet articles. Certain named.....	R. T. Booth Company .....	32,000	Sept. 27	84	2014
Medicinal preparations for certain named diseases.....	Hance Bros. & White .....	32,039	Oct. 11	85	285
Medicinal preparations for certain named diseases.....	Hance Bros. & White .....	32,040	Oct. 11	85	285
Medicinal preparations for inhalation and a cerate for cure of catarrh, asthma, bronchitis, hay-fever, and consumption.....	M. Beaty .....	31,088	Jan. 4	82	182
Medicinal preparations having antiseptic qualities.....	C. V. Ryan .....	31,528	May 10	83	912
Medicinal remedies and preparations. Certain named.....	J. J. Coyle .....	32,166	Nov. 15	85	1076
Medicinal remedies and toilet preparations and articles. Certain named.....	C. C. S. Saunders.....	31,591	May 24	83	1205
Medicinal remedies. Certain named.....	G. A. Beahler.....	32,135	Nov. 8	85	933
Medicinal remedies. Certain named.....	C. C. Cook .....	31,716	June 21	83	1798
Medicinal tablets.....	Anti-Cephalic Chemical Co .....	31,588	May 24	83	1204
Medicinal tablets. Certain named.....	E. and L. O. Simard .....	32,068	Oct. 18	85	451
Medicinal tonics.....	F. X. Liebig .....	31,967	Sept. 13	84	1726
Medicinal tonics.....	C. Trevisanello .....	31,663	June 7	83	1509
Medicinal wine.....	A. Choffé .....	31,825	July 26	84	646
Medicine.....	L. Mohr .....	32,001	Sept. 27	84	2014
Medicine. Certain.....	C. R. Buchheit .....	32,088	Oct. 25	85	607
Medicine for certain diseases.....	N. Morris .....	32,246	Dec. 13	85	1736
Medicine for certain named diseases.....	E. Allen .....	32,273	Dec. 20	85	1903
Medicine for certain named diseases.....	C. C. Dover .....	32,191	Nov. 29	85	1396
Medicine for colds and kindred complaints. Proprietary.....	De Land Medical Company .....	31,453	Apr. 5	83	154
Medicine for restoring gray hair to its natural color and for growing new hair.....	Gould Gray Hair Remedy Co .....	31,782	July 5	84	143
Medicine for the cure of scrofula and similar diseases.....	J. A. Gates .....	31,294	Feb. 22	82	1205
Medicine for the treatment of a certain named disease.....	D. D. Richardson .....	32,245	Dec. 13	85	1736
Medicine for the treatment of certain named diseases.....	D. D. Richardson .....	32,244	Dec. 13	85	1736
Medicine for throat and pulmonary diseases.....	J. Morgan .....	31,112	Jan. 11	82	333
Medicine for venereal diseases.....	Standard Remedy Company .....	31,345	Mar. 1	82	1414
Medicine for wounds.....	Farbwerke, vormals Meister, Lucius & Brüning.....	32,213	Dec. 6	85	1582
Medicine. Liquid cough.....	C. S. McEwen .....	31,529	May 10	83	912
Medicine. Pharmaceutical product from milk used as.....	Majert & Ebers, Gesellschaft mit Beschränkter Haftung.....	31,475	Apr. 19	83	441
Medicines. Blood.....	Mineral Spring Medical Co .....	31,874	Aug. 16	84	1139
Medicines. Cathartic.....	F. J. Stock .....	32,190	Nov. 29	85	1396
Medicines. Certain named.....	Dr. Koch Vegetable Tea Co .....	32,067	Oct. 18	85	451
Medicines. Certain named proprietary.....	Estate of C. A. Kish .....	32,137	Nov. 8	85	933
Medicines for certain named diseases. Proprietary.....	German Medicine Company .....	31,876	Aug. 16	84	1140
Medicines for diseases of the throat and lungs.....	H. L. Bird .....	32,132	Nov. 8	85	933
Medicines for domestic animals.....	Morris, Little & Son .....	31,871	Aug. 16	84	1139
Medicines, medicinal specialties, and articles for the toilet.....	Oberhäuser & Landauer .....	31,590	May 24	83	1205
Medicines. Stomach, kidney, bowel, and genito-urinary.....	C. B. Ham .....	31,083	Jan. 4	82	182
Mentho-quinine and laxative quinidine tablets, and a kidney cure.....	Van Vleet-Mansfield Drug Company .....	31,784	July 5	84	144
Metal articles. Certain named.....	Turner Brass Works .....	32,014	Sept. 27	84	2015
Metal leaf.....	F. W. Grempler .....	31,363	Mar. 1	82	1415
Metal-polish.....	Burnham & Co .....	31,149	Jan. 18	82	459
Metal-polish.....	S. C. Croft and K. F. Hall .....	32,081	Oct. 18	85	452
Metal-polish.....	W. H. Manning .....	32,089	Oct. 25	85	607
Metal-polish.....	Meyers Putz Pomade Company .....	32,181	Nov. 22	85	1220
Metal-polish. Powdered.....	Matchless Metal Polish Company .....	32,165	Nov. 15	85	1076
Metal. Species of antifriction.....	A. W. Spooner .....	32,130	Nov. 8	85	933
Metals and metallic wares. Creams for cleaning and polishing.....	August Loh Söhne, Aktiengesellschaft für Militärausrüstungen.....	31,402	Mar. 8	82	1558
Meters. Fluid.....	Neptune Meter Company .....	31,156	Jan. 18	82	460



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Title.	Name.	No.	Date.	Official Gazette.	
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Meters. Fluid-	Neptune Meter Company	31,905	Aug. 23	84	1280
Milk	J. M. Kipp	31,173	Jan. 25	82	594
Milk. Condensed	Mohawk Condensed Milk Co	32,074	Oct. 18	85	452
Milk. Condensed	New York Condensed Milk Company.	32,258	Dec. 20	85	1901
Milk. Condensed	Vermont Condensed Milk Company.	31,579	May 24	83	1204
Milk, condensed coffee, condensed cocoa, and coffee extract.	New York Condensed Milk Company.	31,752	June 28	83	1988
Milk measuring and registering apparatus and charts therefor.	O. Lindemann	31,851	Aug. 9	84	979
Mineral water	Gerolsteiner Sprudel W. Castendyck	31,719	June 21	83	1798
Mineral water and carbonated beverages. Natural	W. H. Davis	31,581	May 24	83	1204
Mineral water. Certain bitter	B. B. Mineral Springs Company	31,943	Sept. 6	84	1581
Mineral waters	Duquesne Distributing Co	31,382	Mar. 8	82	1556
Mineral waters	Waukesha Water Company	31,791	July 5	84	144
Mineral waters	White Rock Mineral Spring Company.	31,753	June 28	83	1988
Molasses	G. W. Dunbar's Sons	31,095	Jan. 4	82	183
Mucilage and paste	Thaddeus Davids Company	31,631	May 31	83	1343
Music-boxes and their parts	Regina Music Box Company	31,153	Jan. 18	82	460
Musical instruments	Morgenstern & Goldsmith	31,976	Sept. 20	84	1866
Musical instruments and stringed musical instruments.	W. Tonk & Bro	31,244	Feb. 15	82	1045
Mustard and horse-radish. Preparation of	Dodson-Braun Manufacturing Company.	31,554	May 17	83	1064
Mustard, pickles, and sauces	G. A. Bayle	31,805	July 12	84	308
Naphtha or rock-oil products	Naftalan-Gesellschaft, G. M. B. H.	32,304	Dec. 27	85	2090
Needles	London Needle Company	32,277	Dec. 20	85	1903
Oats and oatmeal. Rolled	Muscatine Oat Meal Company	31,271	Feb. 15	82	1047
Oats and oatmeal. Rolled	Muscatine Oat Meal Company	31,728	June 21	83	1799
Oats and oatmeal. Rolled	Muscatine Oat Meal Company	32,048	Oct. 11	85	286
Oil-cake and oil-meal	S. Kellogg	31,351	Mar. 1	82	1415
Oil. Castor-	Aurora Manufacturing Company	32,111	Nov. 1	85	774
Oil. Castor-	Marsh Oil Company	31,801	July 12	84	307
Oil. Cotton-seed	Union Oil Company	32,010	Sept. 27	84	2015
Oil. Illuminating-	S. Hoffnung & Co	31,668	June 7	83	1509
Oil. Kerosene-	A. Kitson	32,305	Dec. 27	85	2090
Oil. Kerosene-	W. Sandover & Co	32,031	Oct. 4	85	148
Oil. Olive-	Chaffard & Couderc	31,270	Feb. 15	82	1047
Oil. Olive-	Chaffard & Couderc	32,201	Dec. 6	85	1581
Oil. Olive-	Showell & Fryer	31,691	June 14	83	1657
Oil. Olive, essential, salad, and seed	G. Lueders & Co	31,831	Aug. 2	84	804
Oil. Sewing-machine and bicycle	Griggs, Cooper & Co	32,032	Oct. 4	85	148
Oils	Vacuum Oil Company	31,733	June 21	83	1799
Oils	Vacuum Oil Company	31,734	June 21	83	1800
Oils	Vacuum Oil Company	31,735	June 21	83	1800
Oils and certain named toilet articles and preparations	Warrick Frères	31,596	May 24	83	1205
Oils. Cooking-	Union Oil Company	31,947	Sept. 6	84	1581
Oils, extracts, essences, and flavorings. Essential	C. Rockhill	32,231	Dec. 13	85	1735
Oils for artists' paints, colors, and varnishes	Flügger & Boecking	32,146	Nov. 8	85	934
Oils for certain named purposes	T. Olsen	31,595	May 24	83	1205
Oils. Lubricating-	Vacuum Oil Company	31,861	Aug. 9	84	980
Oils. Mineral lubricating-	B. Moniz & Co	31,973	Sept. 13	84	1726
Oils. Mineral lubricating-	B. Moniz & Co	31,974	Sept. 13	84	1726
Ointment	M. Landesmann and S. Weinberger	31,398	Mar. 8	82	1558
Ointment	M. A. Wheeler	31,683	June 14	83	1656
Ointment for piles	Granite Pile Cure Co	31,117	Jan. 11	82	333
Ointments	C. E. Belcher	31,858	Aug. 9	84	980
Olives and peppers. Relish consisting of	Seville Packing Company	31,210	Feb. 1	82	748
Optical goods. Certain named	Johnston Optical Co	32,103	Nov. 1	85	773
Organs	Burdett Organ Company	31,072	Jan. 4	82	181
Organs	F. G. Smith	31,509	May 3	83	742
Organs. Reed-	Chicago Cottage Organ Company	31,430	Mar. 22	82	1817
Overshoes	A. E. Little & Co	31,912	Aug. 30	84	1431
Packing-house products. Certain named	Swift & Company	32,233	Dec. 13	85	1735
Packing-house products. Certain named	Swift & Company	32,234	Dec. 13	85	1735
Packing-house products. Certain named	Swift & Company	32,235	Dec. 13	85	1735
Packings or gaskets	Peerless Rubber Manufacturing Company.	31,325	Feb. 22	82	1208
Paint	Carrara Paint Company	32,029	Oct. 4	85	148
Paint	Hanna Paint Manufacturing Company.	32,147	Nov. 8	85	934
Paint. Cold-water	Muzzy Bros	32,011	Sept. 27	84	2015
Paint for ships' bottoms. Antifouling	Holzappel's Compositions Company.	31,551	May 17	83	1064
Paint. Roof-	Kansas City Roofing and Corrugating Company.	31,777	July 5	84	143
Paints	Lucas & Sampson	31,489	Apr. 26	83	592
Paints and painters' supplies	National Mining and Milling Company.	31,601	May 24	83	1206
Paints and painters' supplies	National Mining and Milling Company.	31,602	May 24	83	1206
Paints and surface-coatings	A. E. Maire	31,778	July 5	84	143
Paints and varnishes for straw and ratan goods	Carpenter-Morton Company	31,983	Sept. 20	84	1866
Pants, coats, vests, and overalls	Bray Clothing Company	31,485	Apr. 26	83	591
Pants. Ladies'	Commercial Knitting Mills Company.	31,570	May 24	83	1203
Paper	H. Lindenmeyr & Sons	31,483	Apr. 26	83	591
Paper and envelopes	Alex. Pirie & Sons	31,280	Feb. 22	82	1204
Paper and envelopes	Alex. Pirie & Sons	31,281	Feb. 22	82	1204
Paper and envelopes	Alex. Pirie & Sons	31,282	Feb. 22	82	1204
Paper and envelopes	Alex. Pirie & Sons	31,283	Feb. 22	82	1204
Paper and envelopes. Writing-	Z. & W. M. Crane	31,740	June 28	83	1987
Paper bags	Indiana Paper Company	31,342	Mar. 1	82	1414
Paper bags	Union Bag and Paper Company	31,180	Feb. 1	82	745



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Title.	Name.	No.	Date.	Official Gazette.	
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Paper designed to expose erasures thereon .....	August Gast Bank-Note and Litho- graphing Company.	31,250	Feb. 15	82	1045
Paper designed to expose erasures thereon .....	August Gast Bank-Note and Litho- graphing Company.	31,284	Feb. 22	82	1204
Paper fabric, wrapping or packing paper, paper interlin- ings, and paper wearing-apparel.	Arkell & Smiths .....	32,019	Oct. 4	85	147
Paper goods for hotel checking systems. Certain	J. T. Hicks .....	31,653	June 7	83	1508
Paper. Medicated Manila .....	J. Robertson & Son .....	31,181	Feb. 1	82	745
Paper. Ribbon .....	Osborn & Wilson .....	31,248	Feb. 15	82	1045
Paper. Ribbon .....	Osborn & Wilson .....	31,249	Feb. 15	82	1045
Paper. Sheathing .....	Newton Paper Company .....	31,846	Aug. 2	84	806
Paper. Soft cleaners for wall .....	J. Donoghue .....	31,748	June 28	83	1987
Paper. Writing .....	Whiting Paper Company .....	31,515	May 10	83	911
Paper. Writing .....	Whiting Paper Company .....	31,573	May 24	83	1203
Paper. Writing .....	Whiting Paper Company .....	31,618	May 31	83	1343
Paper. Writing .....	Whiting Paper Company .....	31,704	June 21	83	1797
Paper. Writing .....	Whiting Paper Company .....	31,793	July 12	84	307
Papers. Writing .....	Whiting Paper Company .....	31,770	July 5	84	142
Peanut-butter .....	Atlantic Peanut Refinery .....	32,254	Dec. 20	85	1900
Pear-trees, scions of pear-trees, and pears .....	Pioneer Nurseries Company .....	31,233	Feb. 8	82	892
Pencils. Lead .....	L. & C. Hardtmuth .....	32,221	Dec. 13	85	1734
Pens .....	A. S. Barnes & Co .....	31,657	June 7	83	1509
Pens .....	J. H. Cook .....	31,373	Mar. 8	82	1556
Pens .....	Perry & Company .....	31,958	Sept. 13	84	1725
Pens. Fountain .....	A. A. Waterman Pen Co .....	31,442	Mar. 29	82	1985
Pens. Metallic .....	C. Brandauer & Co .....	31,619	May 31	83	1343
Pens. Metallic .....	C. Brandauer & Co .....	31,620	May 31	83	1343
Pens. Metallic .....	C. Brandauer & Co .....	31,621	May 31	83	1343
Pens. Metallic .....	C. Brandauer & Co .....	31,622	May 31	83	1343
Pens. Metallic .....	C. Brandauer & Co .....	31,623	May 31	83	1343
Pens. Metallic .....	C. Brandauer & Co .....	31,624	May 31	83	1343
Pens. Metallic .....	C. Brandauer & Co .....	31,625	May 31	83	1343
Pens. Metallic .....	C. Brandauer & Co .....	31,626	May 31	83	1343
Pens. Steel .....	C. Brandauer & Co .....	31,433	Mar. 22	82	1817
Pens. Stylographic .....	J. Ullrich & Co .....	32,220	Dec. 13	85	1734
Pens. Stylographic and fountain .....	J. Ullrich & Co .....	31,656	June 7	83	1508
Perfume. Certain named artificial .....	L. Durand Huguenin & Cie .....	32,163	Nov. 15	85	1076
Perfume for the bath .....	W. H. C. Burnett .....	31,822	July 26	84	646
Perfumes and devices for holding and atomizing perfumes .....	La Société Chimique des Usines du Rhône, Anciennement Gilliard P. Monnet et Cartier.	31,303	Feb. 22	82	1206
Perfumes and devices for holding and atomizing perfumes .....	La Société Chimique des Usines du Rhône, Anciennement Gilliard P. Monnet et Cartier.	31,304	Feb. 22	82	1206
Perfumes, extracts, toilets waters, and sachets .....	R. Hudnut .....	32,188	Nov. 29	85	1396
Perfumes for the breath .....	W. H. C. Burnett .....	32,292	Dec. 27	85	2089
Perfumery .....	Frederick Stearns & Company .....	32,170	Nov. 22	85	1219
Perfumery .....	Firm of A. Wright .....	31,594	May 24	83	1205
Perfumery, toilet water, and toilet powder .....	H. K. Buck .....	31,933	Sept. 6	84	1580
Perfumery, toilet water, toilet soap, and toilet powders .....	Vail Brothers .....	31,302	Feb. 22	82	1206
Periodicals .....	American Machinist Publishing Company.	31,179	Feb. 1	82	745
Periodicals .....	Arkell Publishing Company .....	31,441	Mar. 29	82	1985
Periodicals .....	Arkell Publishing Company .....	31,484	Apr. 26	83	591
Petroleum and its products and other oils .....	Power, Son & Co. and Power Broth- ers & Co.	31,120	Jan. 11	82	334
Pharmaceutical preparations. Certain named .....	Chemische Fabrik in Helfenberg bei Dresden, Eugen Dieterich.	31,799	July 12	84	307
Pharmaceutical preparations. Certain named .....	M. J. Olsen .....	32,208	Dec. 6	85	1582
Pharmaceutical preparation of salol in oil of gaultheria .....	W. W. Cherry .....	31,296	Feb. 22	82	1205
Photographic apparatus and material. Certain	Radiotint, Limited .....	31,655	June 7	83	1508
Photographic developers .....	Actien-Gesellschaft für Anilin-Fa- brikation.	31,337	Mar. 1	82	1413
Photographic developers .....	Firm of J. Hauff .....	31,235	Feb. 8	82	892
Photographic developers .....	Firm of J. Hauff .....	31,236	Feb. 8	82	892
Photographic-developing agents .....	Chicago Chemical Works .....	32,164	Nov. 15	85	1076
Photographic material, apparatus, and products. Certain named	Radiotint, Limited .....	31,574	May 24	83	1203
Photographic paper .....	Nepera Chemical Company .....	31,234	Feb. 8	82	892
Photographic paper .....	Reichenbach, Morey & Will Com- pany.	31,705	June 21	83	1797
Photographic paper and chemicals .....	Nepera Chemical Company .....	31,110	Jan. 4	82	184
Photographic printing-out paper .....	Reichenbach, Morey & Will Com- pany.	31,481	Apr. 26	83	591
Photographic printing-out paper .....	Reichenbach, Morey & Will Com- pany.	31,482	Apr. 26	83	591
Photographic printing-out paper and prints made thereon .....	Reichenbach, Morey & Will Com- pany.	31,480	Apr. 26	83	591
Photographic printing-paper .....	Western Camera Manufacturing Company.	31,654	June 7	83	1508
Photographs. Art .....	Curtis & Cameron .....	31,617	May 31	83	1342
Photographs. Art .....	Curtis & Cameron .....	31,706	June 21	83	1797
Pianofortes .....	F. G. Smith .....	31,510	May 3	83	742
Pianofortes and organs .....	F. G. Smith .....	31,541	May 10	83	914
Piano-players. Automatic .....	Æolian Company .....	31,412	Mar. 8	82	1559
Pianos .....	Chicago Cottage Organ Company .....	31,428	Mar. 22	82	1817
Pianos .....	Chicago Cottage Organ Company .....	31,429	Mar. 22	82	1817
Pianos and organs .....	G. P. Bent .....	31,473	Apr. 19	83	441
Pianos. Cabinet grand .....	Valley Gem Piano Company .....	31,411	Mar. 8	82	1559
Pianos, wind, string, and percussive musical instruments .....	Burdett Organ Company .....	31,197	Feb. 1	82	747
Pile cure. Vegetable-powder .....	J. Bardenheier .....	32,023	Oct. 4	85	147
Pillow-inhalers .....	Pillow Inhaler Company .....	31,711	June 21	83	1797
Pills .....	W. A. Prout .....	31,587	May 24	83	1204
Pills .....	W. A. Prout .....	31,666	June 7	83	1509
Pills. Cathartic .....	J. B. Bond, Sr .....	31,347	Mar. 1	82	1414
Pins .....	American Pin Company .....	31,932	Sept. 6	84	1580



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Title.	Name.	No.	Date.	Official Gazette.	
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Pins	Handy Pin Company	31,708	June 21	83	1797
Pistols	R. Parker	31,844	Aug. 2	84	805
Plants and trees	D. Shank	31,993	Sept. 20	84	1867
Plaster, plaster-of-paris, cement, cement-plaster, hydraulic cement, and analogous compositions and compounds.	C. A. Brockett Cement Company	31,229	Feb. 8	82	891
Plows	Minneapolis Plow Works	31,996	Sept. 20	84	1868
Plows	South Bend Iron Works	31,370	Mar. 1	82	1416
Plows	South Bend Iron Works	31,415	Mar. 8	82	1559
Plows and their parts	Gale Manufacturing Company	32,307	Dec. 27	85	2090
Plows and their parts	Syracuse Chilled Plow Company	31,466	Apr. 12	83	294
Plows and their parts	Syracuse Chilled Plow Company	32,098	Oct. 25	85	608
Plum-trees, scions of plum-trees, and plums	Jewell Nursery Company	31,471	Apr. 19	83	441
Plumbers' fixtures	E. W. Fisher Company	31,278	Feb. 15	82	1048
Polish	J. L. Prescott & Co.	31,982	Sept. 20	84	1866
Polishing-powder and abrading tools and implements made from same.	F. W. Gesswein Company	31,306	Feb. 22	82	1206
Polishing preparation	K. G. Sleneau	31,500	May 3	83	741
Popcorn. Prepared	St. Louis Pop Corn Company	31,634	May 31	83	1344
Pork products. Certain named	R. M. Burnett	32,076	Oct. 18	85	452
Potato products	J. G. Neumann	32,264	Dec. 20	85	1901
Powder	American E. C. & Schultze Gunpowder Company	32,238	Dec. 13	85	1736
Powder for cure of headache	W. B. Odell	31,291	Feb. 22	82	1205
Powder. Gun, ordnance, and blasting	King Powder Company	31,138	Jan. 11	82	335
Powder-paper, being a preparation for the skin or toilet use.	A. S. Butler	31,301	Feb. 22	82	1206
Powders for the prevention and alleviation of diseases of horses, horned cattle, and swine.	S. J. Brown	31,079	Jan. 4	82	181
Powders. Horse and cattle	Lamar & Rankin Drug Company	31,259	Feb. 15	82	1046
Powders, pills, tablets, perls, ointments, and tinctures	Pharmaceutisches Institut Ludwig Wilhelm Gans.	31,963	Sept. 13	84	1725
Preparation for rough or chapped skin	L. Paddock	31,460	Apr. 12	83	293
Preparation for the painless treatment of irritated pulps	G. Scharmann	31,458	Apr. 12	83	293
Preparation for treating the scalp and promoting the growth of the hair.	B. Hafer	31,263	Feb. 15	82	1046
Preparations for the cure of toothache	A. B. Robinson	32,175	Nov. 22	85	1219
Preparations for the skin	Kahn-Miller Drug Company	31,076	Jan. 4	82	181
Preparations for the skin. External and internal.	L. M. Gilling	32,289	Dec. 27	85	2088
Preservative compound. Certain named	E. Calm	31,885	Aug. 16	84	1140
Preservatives. Certain named	Preservaline Manufacturing Company.	32,041	Oct. 11	85	285
Primers or caps and fuses for blasting purposes	Metallic Cap Manufacturing Company.	31,136	Jan. 11	82	335
Proprietary articles	Central Chemical Company	31,502	May 3	83	741
Publication containing general news and literature. Weekly	Arkell Publishing Company	31,339	Mar. 1	82	1413
Publications. Certain named	L. Gerstle	31,516	May 10	83	911
Pulleys. Wrought-steel	American Pulley Company	31,276	Feb. 15	82	1048
Puzzle	W. F. Homman	31,238	Feb. 8	82	892
Razor-strops	J. H. Hemmerdinger	31,154	Jan. 18	82	460
Refrigerating compounds	R. R. Graf	31,406	Mar. 8	82	1559
Refrigerators	Maine Manufacturing Co	31,826	July 26	84	646
Refrigerators	Michigan Barrel Company	31,130	Jan. 11	82	334
Refrigerators	Michigan Barrel Company	31,131	Jan. 11	82	335
Relish and table-sauce. Certain named table	Dodson-Braun Manufacturing Company.	31,314	Feb. 22	82	1207
Remedies. External eye	J. B. & G. W. McFatrigh	32,189	Nov. 29	85	1396
Remedies. Fever	T. J. Vogelgesang	31,875	Aug. 16	84	1139
Remedies for certain named diseases	Hance Bros. & White	32,176	Nov. 22	85	1220
Remedies for certain named diseases	C. B. Mumford	31,344	Mar. 1	82	1414
Remedies for certain named diseases	Myalgine Co.	31,447	Mar. 29	82	1985
Remedies for certain named diseases	J. Wilde	32,247	Dec. 13	85	1736
Remedies for certain named diseases. Herb	C. W. Unger	31,785	July 5	84	144
Remedies for coughs, colds, headaches, and la grippe	Paris Medicine Company	31,087	Jan. 4	82	182
Remedies for diseases of the stomach and bowels	M. Ledermann & Co.	31,082	Jan. 4	82	182
Remedies for dyspepsia and analogous ailments	S. G. Graham Co.	31,393	Mar. 8	82	1557
Remedies for external use and also for internal use as a tonic. Proprietary	Chester Kent & Company	31,226	Feb. 8	82	891
Remedies for indigestion, dyspepsia, and allied ailments	J. D. Frederiksen	31,343	Mar. 1	82	1414
Remedies for indigestion, flatulency, and dyspepsia	Hance Bros. & White	32,004	Sept. 27	84	2015
Remedies for malarial and kindred fevers	E. T. Moriarty	32,179	Nov. 22	85	1220
Remedies for nervous, blood, and stomach diseases	O. E. Warner	31,183	Feb. 1	82	745
Remedies for nervous diseases and general debility in liquid or tablet form	Bar-Ben Remedies Company	32,285	Dec. 27	85	2088
Remedies for rendering tobacco harmless	C. J. Branch	31,426	Mar. 15	82	1686
Remedies for rheumatism	C. Malz	32,115	Nov. 1	85	774
Remedies for rheumatism	J. M. Pierre	32,116	Nov. 1	85	774
Remedies for the cure of venereal diseases	G. and W. Hollingsworth	31,166	Jan. 25	82	593
Remedies for the minor inflammatory diseases of the eye	Hance Bros. & White	32,286	Dec. 27	85	2088
Remedies. Hog-cholera	C. Bragg	31,589	May 24	83	1205
Remedies. Kidney	P. W. Fay	31,084	Jan. 4	82	182
Remedy. Catarrh	J. S. McElroy	32,066	Oct. 18	85	451
Remedy. Certain antiseptic	F. Hoffmann-La Roche & Co.	31,922	Aug. 30	84	1432
Remedy. Certain named topical	A. Camnitzer	32,217	Dec. 6	85	1582
Remedy for a certain named disease	Farbwerke, vormals Meister, Lucius & Brüning.	32,215	Dec. 6	85	1582
Remedy for arthritis, rheumatism, and like diseases	Chemische Fabrik Sulzbach Gesellschaft mit Beschränkter Haftung.	32,022	Oct. 4	85	147
Remedy for catarrh and poor eyesight	E. C. Baek	31,086	Jan. 4	82	182
Remedy for certain named diseases	Farbwerke, vormals Meister, Lucius & Brüning.	32,214	Dec. 6	85	1582
Remedy for certain named diseases	Farbwerke, vormals Meister, Lucius & Brüning.	32,216	Dec. 6	85	1582
Remedy for certain named diseases	E. Morin	31,952	Sept. 6	84	1582
Remedy for certain named diseases	A. R. Pifer	32,118	Nov. 1	85	774
Remedy for certain named diseases	J. R. Wasson	31,965	Sept. 13	84	1725



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Title.	Name.	No.	Date.	Official Gazette.	
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Remedy for certain named diseases of the nasal passages	Hance Bros. & White	32,065	Oct. 18	85	451
Remedy for chronic constipation, hepatic torpor, and jaundice.	W. Edmonds	31,607	May 24	83	1206
Remedy for colds, throat affections, and internal and external pains.	Brown Medicine Co.	31,292	Feb. 22	82	1205
Remedy for consumption, malaria, and other germinal diseases.	Asepta Chemical Company	31,182	Feb. 1	82	745
Remedy for diabetes.	Caldwell & Company	31,260	Feb. 15	82	1046
Remedy for diarrhea, dysentery, and dyspepsia. Liquid	Sloat Bros. Co.	31,531	May 10	83	912
Remedy for diseases of the blood and infectious diseases. Certain.	Chemische Fabrik Sulzbach Gesellschaft mit Beschränkter Haftung.	32,021	Oct. 4	85	147
Remedy for febrile diseases	Hance Bros. & White	32,064	Oct. 18	85	451
Remedy for rheumatism	C. Bildstein	31,757	June 28	83	1989
Remedy for insect bites and stings and for vegetable poison.	J. L. Miller	31,552	May 17	83	1064
Remedy for nervous ailments and sequelæ. Certain	H. Arnold	31,895	Aug. 23	84	1279
Remedy for nervous and head ailments. Liquid	Acker & Affleck	32,131	Nov. 8	85	933
Remedy for obesity and disordered conditions allied therewith.	T. W. Graydon	31,394	Mar. 8	82	1558
Remedy for rheumatism	G. Ardito	31,714	June 21	83	1797
Remedy for rheumatism	E. H. Hudson	32,114	Nov. 1	85	774
Remedy for rheumatism and muscular pains. Topical	L. A. Dieter	31,261	Feb. 15	82	1046
Remedy for rheumatism. Internal	J. F. Regan Co.	31,641	May 31	83	1344
Remedy for rupture or hernia	P. Schwind	31,081	Jan. 4	82	182
Remedy for skin and blood disorders	Sulphume Company	31,754	June 28	83	1988
Remedy for skin diseases	O. Klopsch	31,800	July 12	84	307
Remedy for stomach and blood diseases	C. K. Newcomb	32,024	Oct. 4	85	147
Remedy for the diseases of cattle	G. B. M. Steinhoff	31,802	July 12	84	307
Remedy for the diseases of women. Internal	Hazeltine & Perkins Drug Company	31,783	July 5	84	143
Remedy for the removal of corns, callouses, bunions, ingrowing nails, and warts.	L. J. Smith	31,397	Mar. 8	82	1558
Remedy in tablet form	R. A. Walker	31,665	June 7	83	1509
Remedy. Pile	C. L. Dorn	31,756	June 28	83	1988
Remedy. Tonic	Cleveland Veterinary Remedy Co.	31,925	Aug. 30	84	1432
Rheumatism and neuralgia cures.	G. M. Teeple	31,085	Jan. 4	82	182
Rheumatism cure and blood-purifier. Certain	M. J. Johnson	31,951	Sept. 6	84	1582
Ribbons	E. & H. Levy	31,331	Mar. 1	82	1413
Ribbons	E. & H. Levy	31,547	May 17	83	1064
Ropes, cords, twines, threads, bagging, and carpets or floor-coverings.	La Industrial	31,813	July 19	84	505
Rouge. Liquid	M. E. Farnum	31,781	July 5	84	143
Rubber goods	Whitman & Barnes Manufacturing Company.	31,364	Mar. 1	82	1416
Rubber goods and articles made therefrom and waterproof oiled fabrics and articles made therefrom.	Goodyear Rubber Company	31,929	Sept. 6	84	1580
Rubber goods. Certain named	Diamond Rubber Company	31,650	June 7	83	1508
Rubber goods. Certain named	Diamond Rubber Company	31,651	June 7	83	1508
Rubber goods. Certain named	Diamond Rubber Company	31,679	June 14	83	1656
Rubber goods. Certain named	Whitman & Barnes Manufacturing Company.	31,251	Feb. 15	82	1045
Rubber heels for boots and shoes	F. W. Whitcher & Co.	31,961	Sept. 13	84	1725
Rubber products. India	Hood Rubber Company	31,615	May 31	83	1342
Rubber products. India	Hood Rubber Company	31,616	May 31	83	1342
Rugs	B. Altman	32,056	Oct. 18	85	450
Saccharine substances. Certain named	Fries Bros	31,790	July 5	84	144
Sachet-powders and toilet soap	C. B. Woodward Sons Company	31,935	Sept. 6	84	1580
Salmon	J. M. Chapman	31,913	Aug. 30	84	1431
Salt of lithia. Laxative	Vass Chemical Company	32,274	Dec. 20	85	1903
Salt. Sea	Tidman & Son	31,731	June 21	83	1799
Salts for external use in the bath. Artificial mineral	J. C. Minor, Jr.	32,087	Oct. 25	85	607
Salts for making beverages. Solid	J. Personeni	31,358	Mar. 1	82	1415
Salve. Medicated	Silver Dandruff Cure Company	31,425	Mar. 15	82	1686
Salves	H. M. Gaffney	31,786	July 5	84	144
Sandalwood in paste form. Preparation of	M. A. Sargent	31,797	July 12	84	307
Sauces for meats	J. C. Henderson Machine Motor and Manufacturing Company.	32,028	Oct. 4	85	148
Saws and saw-tools	Bennett Combination Saw-Tool Company.	31,513	May 3	83	742
Scouring, cleaning, washing, and polishing powders	One Second Manufacturing Co.	31,075	Jan. 4	82	181
Scythes, grass-hooks, and hay-knives	North Wayne Tool Company	31,768	June 28	83	1990
Sedatives	Farbenfabriken of Elberfeld Company.	31,836	Aug. 2	84	805
Seeds and seed-grains. Grass, clover, and field.	Albert Dickinson Company	31,078	Jan. 4	82	181
Sewing-machines	Davis Sewing Machine Company	31,703	June 14	83	1658
Sewing-machines	Davis Sewing Machine Company	32,016	Sept. 27	84	2016
Sewing-machines	Davis Sewing Machine Company	32,017	Sept. 27	84	2016
Sewing-machines	Florence Machine Company	31,820	July 19	84	506
Sewing-machines	J. M. Richardson	31,865	Aug. 9	84	980
Sewing-machines and attachments	J. N. Hook & Co.	32,186	Nov. 22	85	1220
Sewing-machines. Household	Chicago Sewing Machine Company	31,129	Jan. 11	82	334
Shaping-machines or so-called crank-planers	U. Eberhardt	31,369	Mar. 1	82	1416
Sewing-machines, stands, and attachments therefor	National Sewing Machine Company	32,278	Dec. 20	85	1903
Sewing-machines, stands, and attachments therefor	National Sewing Machine Company	32,279	Dec. 20	85	1903
Sharpening-stones	Pike Manufacturing Company	31,774	July 5	84	142
Sheet metal made from brass or copper or from brass or copper alloy.	Randolph & Clowes	32,053	Oct. 11	85	286
Shellac	New York Shellac Co.	31,736	June 21	83	1800
Shellac	New York Shellac Co.	31,737	June 21	83	1800
Shingles. Cedar	Rathbun Company	31,196	Feb. 1	82	746
Shirt-waists. Ladies'	Sondheim, Stein & Co.	32,122	Nov. 8	85	932
Shirts. Men's	Woodward & Bailey	31,487	Apr. 26	83	591
Shoe-cloth	D. W. Northrop	31,978	Sept. 20	84	1866
Shoe-dressing	Herriott Bros. & Co.	31,305	Feb. 22	82	1206
Shoes	J. G. Brandt Shoe Company	32,054	Oct. 18	85	450
Shoes	W. R. Garinger	31,377	Mar. 8	82	1556
Shoes	V. K. & A. H. Jones	31,469	Apr. 19	83	441
Shoes	M. D. Wells & Co.	32,187	Nov. 29	85	1396



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Shoes and boots. Dressing for ladies' and children's.....	Lamar & Rankin Drug Company..	31,266	Feb. 15	82	1047
Shoes and slippers. Children's, misses', women's, and men's.	Johnson & Baillie .....	31,101	Jan. 4	82	183
Shoes. Ladies' .....	Medlar & Holmes Shoe Company..	31,334	Mar. 1	82	1413
Shoes. Ladies', misses', and children's .....	Ziegler Bros .....	32,223	Dec. 13	85	1734
Shoes. Men's and women's .....	W. J. Martinez .....	31,611	May 31	83	1342
Shovels, spades, and scoops .....	Supplee Hardware Company .....	31,273	Feb. 15	82	1047
Shovels, spades, and scoops. Steel .....	Avery Stamping Company .....	31,566	May 17	83	1066
Sifters. Flour .....	National Manufacturing Company.	31,766	June 28	83	1990
Silk vestings, button-stock, and dress goods .....	C. Stohn's Sons .....	31,571	May 24	83	1203
Silks .....	William Skinner Manufacturing Company.	31,212	Feb. 8	82	890
Silver. Powdered preparations for cleaning or polishing .....	J. H. Miller .....	31,600	May 24	83	1206
Sizing or finishing compounds .....	W. H. Dougherty .....	31,443	Mar. 29	82	1985
Skewers. Wooden .....	W. S. Shippe .....	31,562	May 17	83	1065
Skirt-protectors .....	H. Evinghaus and M. Herbener .....	32,225	Dec. 13	85	1734
Slate and articles in which slate is used. Quarried .....	Bangor Roofing Slate Manufacturers' Association.	31,372	Mar. 1	82	1416
Slates, blackboards, and tablets. Artificial .....	Holly Silicate Slate Company .....	32,129	Nov. 8	85	932
Soap .....	Larkin Soap Manufacturing Company.	31,985	Sept. 20	84	1867
Soap .....	W. E. Robinson .....	31,118	Jan. 11	82	333
Soap .....	Veuve Charles Morel .....	31,535	May 10	83	913
Soap and candles. Grease for the manufacture of .....	E. S. Kuh .....	31,937	Sept. 6	84	1580
Soap and soap powders .....	T. Ross .....	32,192	Nov. 29	85	1396
Soap. Antiseptic medicated .....	C. I. Hood .....	31,759	June 28	83	1989
Soap. Cleansing, healing, and scouring .....	Stanton Soap Company .....	31,400	Mar. 8	82	1558
Soap. Family .....	Armour & Co. .....	31,461	Apr. 12	83	293
Soap. Laundry .....	N. K. Fairbank Company .....	32,090	Oct. 25	85	607
Soap. Laundry and washing .....	J. T. Evans .....	31,401	Mar. 8	82	1558
Soap, perfumery, and toilet preparations for the teeth, skin, and hair.	Joseph Crosfield & Sons .....	31,592	May 24	83	1205
Soap powders .....	Cudahy Packing Company .....	32,079	Oct. 18	85	452
Soap powders .....	J. M. Woelfel and R. F. Kineavy .....	31,628	May 31	83	1345
Soap. Scouring .....	C. O. Strutz .....	32,303	Dec. 27	85	2089
Soap. Shampoo .....	M. J. Baker & Co. .....	32,110	Nov. 1	85	774
Soap. Soft .....	J. H. Farr & Co. .....	31,915	Aug. 30	84	1431
Soap substitute .....	F. W. Turner, Jr .....	31,780	July 5	84	143
Soap. Toilet .....	Johnston, Holloway & Co. .....	31,593	May 24	83	1205
Soap. Toilet, scouring, and cleansing .....	American Soap Manufacturing Co.	31,074	Jan. 4	82	181
Soaps .....	J. Tulloch .....	31,423	Mar. 15	82	1686
Soaps, cosmetics, salves, and lotions for the skin .....	Ladd & Coffin .....	31,501	May 3	83	741
Soaps, perfumery, extracts, face and tooth powders, excluding perfumed waters.	Court Perfumery Company .....	31,936	Sept. 6	84	1580
Soaps, perfumery, mouth-washes, tooth-washes, tooth pastes and powders, toilet powders, hair-pomades, and other oils and greases for toilet use. Fancy and perfumed	Lever Brothers .....	31,073	Jan. 4	82	181
Soda, cream-ice, confection-tablets, and cocoa-rennet tablets. Cream .....	J. D. Frederiksen .....	31,222	Feb. 8	82	891
Soda-water. Concentrated flavoring-syrup for .....	J. M. Riesenman .....	31,221	Feb. 8	82	891
Soldering compound .....	Highland Electro Chemical Manufacturing Co.	31,307	Feb. 22	82	1206
Soles. Foot- .....	H. F. Roemheld .....	31,979	Sept. 20	84	1866
Solution for cleansing purposes. Certain .....	T. H. Tabor and J. E. Craig .....	32,080	Oct. 18	85	452
Solvents for gums and oils. Chemical .....	Commonwealth Manufacturing Co.	31,150	Jan. 18	82	459
Soups. Extracts of meat for making .....	J. J. Murphy .....	31,209	Feb. 1	82	748
Spectacles and eyeglasses .....	American Optical Company .....	31,246	Feb. 15	82	1045
Spices and condiments. Certain named .....	Sprague, Warner & Company .....	31,450	Mar. 29	82	1986
Starch .....	J. J. Hubinger .....	31,536	May 10	83	913
Starch. Laundry .....	E. R. Durkee & Co. .....	32,232	Dec. 13	85	1735
Starch. Laundry .....	Keever Starch Company .....	32,078	Oct. 18	85	452
Stationary articles and materials for artists and draftsmen. Certain named .....	L. & C. Hardtmuth .....	31,572	May 24	83	1203
Stationery. Certain named .....	National League of Commission Merchants of the United States.	31,467	Apr. 19	83	441
Stationery. Certain named articles of .....	Firm of J. S. Staedtler .....	31,928	Aug. 30	84	1432
Stationery. Certain named articles of .....	Spencerian Pen Company .....	32,197	Dec. 6	85	1581
Stay-tape .....	Reversible Collar Company .....	31,847	Aug. 9	84	979
Steam-gages .....	Ashcroft Manufacturing Company.	31,465	Apr. 12	83	294
Steam-generators for supplying steam for heating purposes.	C. A. Barron .....	31,326	Feb. 22	82	1208
Steel articles made under registrant's process. Supercarburized .....	Harvey Steel Company .....	31,565	May 17	83	1066
Steel or steel and iron combined .....	Firth-Sterling Steel Company .....	31,159	Jan. 18	82	460
Stove-polish .....	J. B. Gebhardt .....	32,267	Dec. 20	85	1902
Stoves and heaters. Gas .....	E. and E. B. Adler .....	32,280	Dec. 20	85	1903
Stoves. Gas .....	Morton-Pringle Gas Heating Company.	31,474	Apr. 19	83	441
Stoves. Gas, vapor, and oil .....	George M. Clark Company .....	31,274	Feb. 15	82	1047
Stoves. Heating and cooking .....	W. S. Smith .....	32,018	Sept. 27	84	2016
Sugar, sorghum, molasses, and syrup .....	M. H. Alexander Company .....	31,946	Sept. 6	84	1581
Sugar-syrup .....	J. D. Hage & Co. .....	31,693	June 14	83	1657
Sulfur .....	Koch & Reis .....	31,897	Aug. 23	84	1279
Suppositories. Hemorrhoidal .....	W. Ernst .....	31,667	June 7	83	1509
Surgical and medical appliances. Certain named .....	J. C. Schnoter Company .....	32,276	Dec. 20	85	1903
Surgical bandages and bedding .....	E. Majert .....	31,445	Mar. 29	82	1985
Surgical instruments and appliances .....	F. A. Reichardt .....	31,999	Sept. 27	84	2014
Suspenders .....	Rockford Suspender Company .....	32,284	Dec. 27	85	2088
Sweat-pads .....	E. L. McClain .....	32,169	Nov. 22	85	1219
Sweetener .....	Chemicals and Drugs Company .....	31,990	Sept. 20	84	1867
Sweetening compounds for industrial and domestic purposes	Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung.	31,407	Mar. 8	82	1559
Syringes .....	S. H. Jenkins .....	31,239	Feb. 8	82	892
Syrup for use in soft drinks, as at soda-water fountains	R. L. Eves .....	31,317	Feb. 22	82	1207
Tablets and powders for certain named disorders .....	G. R. Debnam .....	31,988	Sept. 20	84	1867
Tablets. Headache and neuralgia .....	Imperial Pharmacal Company .....	32,113	Nov. 1	85	774
Tea .....	Arbuckle Bros .....	32,259	Dec. 20	85	1901



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Tea.....	Bronson, Brown & Co.....	31,315	Feb. 22	82	1207
Tea.....	P. C. Larkin.....	31,900	Aug. 23	84	1280
Tea.....	Loudon & Johnson.....	31,671	June 7	83	1510
Tea.....	E. A. Willard.....	31,815	July 19	84	505
Tea and coffee.....	H. M. Humphrey.....	32,141	Nov. 8	85	933
Tea. Ceylon.....	Anderson Bros. & Co.....	31,670	June 7	83	1510
Tea, coffee, spices, and canned goods.....	W. E. Sibley.....	31,832	Aug. 2	84	804
Tea, coffee, spices, flavoring extracts, and sauces.....	C. W. Snook.....	31,945	Sept. 6	84	1581
Teas. Certain named.....	E. A. Willard.....	31,823	July 26	84	646
Textile material with flexible waterproof coating.....	Keratol Company.....	31,907	Aug. 30	84	1431
Textile piece goods other than pile fabrics.....	E. Ripley & Son.....	31,105	Jan. 4	82	184
Thread for sewing and for making lace.....	L. Jachiet.....	32,154	Nov. 15	85	1075
Tin and terne plate.....	United States Iron and Tin Plate Manufacturing Company.....	32,099	Oct. 25	85	608
Tin and terne plates.....	C. S. Mersick & Co.....	31,563	May 17	83	1065
Tin. Roofing.....	W. W. Montague & Company.....	31,416	Mar. 8	82	1560
Tinctures. Compound.....	G. F. Baker.....	31,446	Mar. 29	82	1985
Tires and fastening devices therefor. Pneumatic.....	Dunlop Pneumatic Tyre Company.....	32,281	Dec. 20	85	1904
Tires and fastening devices therefor. Pneumatic.....	Dunlop Pneumatic Tyre Company.....	32,282	Dec. 20	85	1904
Tires. Certain named bicycle.....	Clark Cycle Tire Company.....	31,767	June 28	83	1990
Tires. Pneumatic.....	Morgan & Wright.....	31,543	May 10	83	914
Tires. Pneumatic.....	Morgan & Wright.....	31,544	May 10	83	914
Tires. Solid-rubber.....	Victor Rubber Tire Company.....	31,365	Mar. 1	82	1416
Tobacco and cigars. Leaf and manufactured.....	S. Hershheim, Bros. & Company.....	31,732	June 21	83	1799
Tobacco. Chewing and smoking.....	Hoffman & Co.....	31,991	Sept. 20	84	1867
Tobacco. Plug and twist.....	Pegram & Penn.....	32,012	Sept. 27	84	2015
Tobacco. Plug and twist.....	Pegram & Penn.....	32,139	Nov. 8	85	933
Tobacco. Plug, twist, smoking, and fine-cut.....	Brown Tobacco Company.....	31,176	Jan. 25	82	594
Tobacco. Plug, twist, smoking, and fine-cut.....	Brown Tobacco Company.....	31,215	Feb. 8	82	890
Tobacco. Plug, twist, smoking, and fine-cut.....	Brown Tobacco Company.....	32,228	Dec. 13	85	1735
Tonic.....	W. M. Stevenson.....	32,071	Oct. 18	85	451
Tonic alternative compound.....	Sharp & Dohme.....	31,715	June 21	83	1798
Tonic and nerve medicines.....	Rosenheim Company.....	31,392	Mar. 8	82	1557
Tonic. Celery-phosphate.....	Brown Phosphate Company.....	31,391	Mar. 8	82	1557
Tonics and restoratives.....	M. Cramer.....	31,662	June 7	83	1509
Tooth-powder.....	T. Hollis.....	31,962	Sept. 13	84	1725
Tooth-powder.....	W. H. Poley.....	31,175	Jan. 25	82	594
Toys.....	P. F. Pia.....	31,652	June 7	83	1508
Toys, dolls, and games.....	Firm of F. A. O. Schwarz.....	31,839	Aug. 2	84	805
Toys, dolls, and games.....	Firm of F. A. O. Schwarz.....	31,840	Aug. 2	84	805
Trisodium phosphate.....	Provident Chemical Works.....	31,893	Aug. 23	84	1279
Trousers. Boys'.....	A. Shuman & Co.....	31,518	May 10	83	911
Tubes. Sheet-metal.....	Wilmot & Hobbs Manufacturing Company.....	31,842	Aug. 2	84	805
Tubing made from brass or copper or from brass or copper alloy.....	Randolph & Clowes.....	32,051	Oct. 11	85	286
Tubing made from brass or copper or from brass or copper alloy.....	Randolph & Clowes.....	32,151	Nov. 8	85	934
Twine and binder-twine.....	Plymouth Cordage Company.....	31,812	July 19	84	505
Twine. Binder.....	Edwin H. Fidler Company.....	31,954	Sept. 6	84	1582
Type-writers' supplies, note-books, copying-books, and copying-cloths. Certain named.....	F. S. Webster Company.....	31,738	June 21	83	1800
Type-writing machines.....	American Writing Machine Company.....	31,763	June 28	83	1989
Type-writing machines.....	Commercial Typewriter Company.....	31,764	June 28	83	1989
Type-writing machines and named supplies.....	R. G. Hopkins.....	31,701	June 14	83	1658
Type-writing machines, their parts and attachments.....	Hammond Typewriter Company.....	31,272	Feb. 15	82	1047
Umbrellas and parasols. Self-closing.....	W. N. Stevenson & Co.....	31,434	Mar. 22	82	1817
Umbrellas and umbrella-cloths.....	Firm of F. W. Greef.....	31,106	Jan. 4	82	184
Umbrellas. Men's.....	A. Schiff & Co.....	31,107	Jan. 4	82	184
Underwear and umbrellas. Certain named.....	Sibley, Lindsay & Curr Company.....	31,610	May 31	83	1342
Unguent for skin diseases.....	Firm of Dr. L. C. Marquart.....	32,086	Oct. 25	85	607
Varnish.....	Akron Varnish Company.....	31,603	May 24	83	1206
Varnish for interior and exterior finishing.....	Akron Varnish Company.....	31,520	May 10	83	911
Vehicle-springs.....	Deere & Webber Company.....	31,567	May 17	83	1066
Vehicles. Certain named.....	Moline Wagon Company.....	31,904	Aug. 23	84	1280
Vehicles ordinarily drawn by horses. Light spring.....	Deere & Webber Company.....	31,809	July 12	84	308
Waist-front distenders.....	Sahlin Novelty Company.....	31,796	July 12	84	307
Waists, gowns, and wrappers. Ladies'.....	Paragon Manufacturing Company.....	32,250	Dec. 20	85	1900
Wall-finish.....	Muralo Company.....	31,981	Sept. 20	84	1866
Wash or lotion.....	C. H. Smith.....	31,080	Jan. 4	82	182
Washing, cleaning, and polishing compounds or substances.....	F. J. Underwood.....	31,940	Sept. 6	84	1581
Washing compound. Fluid.....	P. Gugerty.....	31,189	Feb. 1	82	746
Washing compounds.....	M. M. and J. T. Jones, M. M. Korne-gay, and A. L. Mayhew.....	31,779	July 5	84	143
Washing-machines.....	Vandergrift Manufacturing Com-pany.....	31,808	July 12	84	308
Washing-machines.....	Whipple Brothers.....	32,035	Oct. 4	85	148
Washing-powder.....	G. A. Berghoff.....	31,174	Jan. 25	82	594
Washing-powder.....	S. J. Braun.....	31,884	Aug. 16	84	1140
Washing-powder.....	H. C. Lindsey & Co.....	31,629	May 31	83	1343
Washing-tablets.....	W. J. Baer, H. H. Yarnell, and J. A. Zimmerman.....	31,986	Sept. 20	84	1867
Watch-movements, watchcases, and watch parts.....	New England Watch Company.....	32,198	Dec. 6	85	1581
Water. Certain spring.....	Archer & Heide.....	31,267	Feb. 15	82	1047
Water-heating furnace and cooking-range.....	Hallowell & Walker.....	32,084	Oct. 18	85	452
Water-sterilizing preparation.....	Laboratoires Sauter, Société Ano-nyme.....	32,180	Nov. 22	85	1220
Waters and compounds containing same. Distilled and car-bonated.....	Consumers Company.....	31,148	Jan. 18	82	459
Waters. Distilled and carbonated.....	Consumers Company.....	31,147	Jan. 18	82	459
Welding compound.....	H. Eberding.....	31,476	Apr. 19	83	442
Wheat and flour.....	Power, Son & Co. and Power Broth-ers & Co.....	31,311	Feb. 22	82	1207
Wheels of all sizes for light buggies or heavy trucks and their parts. Vehicle.....	Muncie Wheel Co.....	31,845	Aug. 2	84	806
Whips. Fine driving.....	Lay Whip Company.....	31,814	July 19	84	505



*Alphabetical list of trade-marks—Continued.*

Title.	Name.	No.	Date.	Official Gazette.	
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Whisky .....	Bernard & Co .....	31,559	May 17	83	1065
Whisky .....	Boyle & McGlinn .....	31,538	May 10	83	913
Whisky .....	T. Bush .....	31,362	Mar. 1	82	1415
Whisky .....	R. Crawford & Co .....	31,561	May 17	83	1065
Whisky .....	E. J. Curley & Co .....	32,140	Nov. 8	85	933
Whisky .....	Daniel Crawford & Son .....	31,560	May 17	83	1065
Whisky .....	W. A. Gaines & Company .....	31,123	Jan. 11	82	334
Whisky .....	W. Lanahan & Son .....	31,385	Mar. 8	82	1557
Whisky .....	Marshall, McEwen & Co .....	31,717	June 21	83	1798
Whisky .....	A. E. Norris .....	31,636	May 31	83	1344
Whisky .....	A. Overholt & Co .....	32,204	Dec. 6	85	1581
Whisky .....	F. H. Ricker & Co .....	31,695	June 14	83	1657
Whisky .....	Webb & Meyer .....	31,696	June 14	83	1657
Whisky .....	M. L. Wolf .....	31,493	Apr. 26	83	592
Whisky .....	Wright & Greig .....	31,319	Feb. 22	82	1207
Whisky .....	Wright & Greig .....	31,320	Feb. 22	82	1207
Whisky. Bourbon .....	C. W. Jefferson .....	31,992	Sept. 20	84	1867
Whisky. Rye .....	Aspell & Company .....	32,006	Sept. 27	84	2015
Whisky. Scotch .....	Aspell & Company .....	32,007	Sept. 27	84	2015
Wine. Claret .....	F. Vatter .....	31,092	Jan. 4	82	183
Wines .....	Barton & Guestier .....	31,498	May 3	83	741
Wire .....	R. Fraser .....	31,371	Mar. 1	82	1416
Witch-hazel cream and toilet cream .....	F. M. Thompson & Co .....	32,227	Dec. 13	85	1735
Witch-hazel extracts .....	H. W. Matthews .....	31,265	Feb. 15	82	1047
Wood-fillers .....	J. W. Beatty and A. W. Fuller .....	31,917	Aug. 30	84	1432
Woolen fabrics for clothing .....	Hexter & Scheuer .....	31,908	Aug. 30	84	1431
Woolen piece goods and garments .....	Law, Russell & Co .....	31,648	June 7	83	1508
Woven fabric. Multiple .....	American Multiple Woven Fabric Company .....	31,142	Jan. 11	82	336
Yarn with silk finish .....	F. E. Warburton .....	31,909	Aug. 30	84	1431
Yarn with silk finish .....	F. E. Warburton .....	31,910	Aug. 30	84	1431
Yarns and threads. Cotton .....	William Clark Company .....	31,164	Jan. 25	82	593
Yeast .....	American Yeast Company .....	31,729	June 21	83	1799
Yeast .....	D. Girouard .....	32,105	Nov. 1	85	773
Yeast-cakes .....	Crescent Macaroni Company .....	31,853	Aug. 9	84	979
Yeast. Crumb home-made .....	S. A. Yost .....	31,494	Apr. 26	83	592



# ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
"A Night Off." (For Cigars and Similar Articles) .....	G. S. Mahn .....	6,562	Mar. 22	82	1693
"Albumenized Food" .....	Smith, Kline & French Company .....	6,565	Mar. 29	82	1840
"American Baking Powder" .....	R. H. Lansing & Co .....	6,576	May 3	83	599
"Amicus Relief." (For Medicinal Remedy) .....	G. Glanfield .....	6,628	July 19	84	315
"Anti-Gon." (For a Medicine) .....	F. H. Gadsby .....	6,726	Nov. 22	85	1083
"Arab Balsam." (For Balsam) .....	A. Dakin .....	6,664	Sept. 13	84	1589
"Armor Strength Cheviots. Wear and Color Guaranteed. Saks and Company." .....	A. and I. Saks .....	6,623	July 12	84	151
"Bare's Dyspepsia Remedy and Tissue Builder." (For a Medicine.) .....	J. B. Bare .....	6,641	Aug. 16	84	987
"Bell's Flour." (For Flour) .....	S. Bell & Sons .....	6,755	Dec. 27	85	1909
"Black & Tan." (For Beer) .....	Anheuser-Busch Brewing Association. .....	6,598	June 14	83	1517
"Blue Point Raccoon Creek Rye Whiskey" .....	H. H. Elliott .....	6,605	June 21	83	1665
"Bouquet de San Juan." (For Cigars) .....	American Lithographic Company .....	6,702	Oct. 25	85	459
"California Souvenir." (For Playing-Cards) .....	R. J. Waters .....	6,701	Oct. 25	85	459
"Carrara." (For Paint) .....	Carrara Paint Company .....	6,635	Aug. 2	84	653
"Cereal Pancake Flour." (For Pancake-Flour) .....	Cream Cereal Company .....	6,756	Dec. 27	85	1909
"Chelsea Trimming." (For Fancy Dry Goods) .....	Kursheedt Manufacturing Company. .....	6,639	Aug. 16	84	987
"Chief Engineer." (For Cigars) .....	American Lithographic Company .....	6,686	Oct. 4	85	1
"Chips that Pass in the Night." (For Matches) .....	Diamond Match Company .....	6,653	Aug. 30	84	1287
"Chira." (For a Medicine) .....	R. J. Frick .....	6,587	May 10	83	749
"City Troop." (For Cigars) .....	American Lithographic Company .....	6,684	Oct. 4	85	1
"Cool Smoke." (For Cigars) .....	American Lithographic Company .....	6,566	Mar. 29	82	1840
"Court's Great Stomach and Nerve Tonic" .....	T. Petersen .....	6,591	May 24	83	1073
"Cousins." (For Tea) .....	W. J. Butterfield .....	6,667	Sept. 13	84	1589
"Cream." (For Flour) .....	Meek, Finger & Co .....	6,691	Oct. 4	85	1
"Creme De Menthe Balm." (For a Medicine) .....	Scotch Remedy Co .....	6,617	June 28	83	1807
"Croakers." (For Cough Tablets or Lozenges) .....	H. M. Barnes .....	6,747	Dec. 20	85	1743
"Cuban Daisy." (For Cigars) .....	American Lithographic Company .....	6,604	June 21	83	1665
"Cupid's Game." (For Cigars) .....	American Lithographic Company .....	6,636	Aug. 9	84	813
"Cycle Beer." (For Beer) .....	Commonwealth Brewing Company .....	6,633	Aug. 2	84	653
"Davenport's Tasteless Sulphate Quinine" .....	D. F. Davenport .....	6,680	Sept. 27	84	1875
"Death Sure Drops." (For an Insecticide) .....	A. H. Tryon .....	6,619	June 28	83	1807
"Dewey's Victory." (For Whisky) .....	A. B. Sheaffer .....	6,606	June 21	83	1665
"Diana." (For Whisky) .....	C. J. Wähmann .....	6,586	May 10	83	749
"Dr. Bennett's Malarial Cure and Blood Tonic" .....	M. R. Johnson .....	6,572	Apr. 19	83	301
"Dr. Dunlop's Marvoline (Oriental Oil)." (For Rheumatism, Neuralgia, &c.) .....	C. W. Dunlop .....	6,643	Aug. 16	84	987
"Dr. Grebe's XXX Chicken Sarsaparilla and Cholera Cure." (For a Medical Compound.) .....	J. E. Grebe .....	6,634	Aug. 2	84	653
"Dr. L. Reese's Brazilian Herbine." (For Medicine) .....	J. W. Hewitt & Co .....	6,590	May 17	83	927
"Dr. Many's Antiseptic Tooth Powder." (For Tooth-Powder.) .....	E. P. Weed .....	6,665	Sept. 13	84	1589
"Dr. Mile's Cure for Consumption." (For Medicine) .....	C. N. O. Chretien .....	6,748	Dec. 20	85	1743
"Dreydoppel's Mourning Starch." (For Black and Figured Goods.) .....	W. Dreydoppel .....	6,746	Dec. 20	85	1743
"Dunn's Rheumatic Liniment." (For a Medicine) .....	J. Dunn, Jr. .....	6,708	Nov. 8	85	781
"Eau de Cologne de la Cour." (For Toilet Water) .....	Court Perfumery Company .....	6,632	Aug. 2	84	653
"Eau de Frangipanni." (For Toilet Water) .....	Court Perfumery Company .....	6,630	Aug. 2	84	653
"Eau de Toilette Violette." (For Toilet Water) .....	Court Perfumery Company .....	6,631	Aug. 2	84	653
"El Certificado." (For Cigars) .....	American Lithographic Company .....	6,694	Oct. 11	85	153
"El Guardo." (For Cigars) .....	D. S. Erb & Co .....	6,699	Oct. 18	85	293
"English Sauce" .....	Brookes Bros .....	6,567	Mar. 29	82	1840
"Eureka Hair Restorer" .....	L. Phillips .....	6,600	June 14	83	1517
"Excelsior Anti-Porrigo." (For a Medicine) .....	J. E. Eakens .....	6,695	Oct. 11	85	153
"Fairy Queen" .....	Lee Broom and Duster Company .....	6,612	June 21	83	1665
"Fire Fighters." (For Cigars) .....	American Lithographic Company .....	6,743	Dec. 20	85	1743
"5c or Nickel Oats." (For Rolled Oats or Oatmeal) .....	Muscatine Oat Meal Company .....	6,696	Oct. 11	85	153
"Ford's Remedies." (For Medical Compounds) .....	F. G. Ford .....	6,642	Aug. 16	84	987
"From Thorsby Ala. to Market." (For Grapes) .....	Concordia Land and Improvement Association. .....	6,671	Sept. 13	84	1589
"Full Strength." (For Alcohol and other Products of the Distillery.) .....	Columbus Distilling Co .....	6,568	Mar. 29	82	1840
"Game of Day at the Circus." (For a Game) .....	McLoughlin Brothers .....	6,727	Nov. 29	85	1227
"Game of Naval War." (For a Game) .....	McLoughlin Brothers .....	6,660	Sept. 13	84	1589
"Game of Race Around the World." (For a Game) .....	McLoughlin Brothers .....	6,655	Sept. 6	84	1441
"Game of the Robber Kitten." (For a Game) .....	McLoughlin Brothers .....	6,656	Sept. 6	84	1441
"Game of War at Sea or Don't Give Up the Ship." (For a Game.) .....	McLoughlin Brothers .....	6,662	Sept. 13	84	1589
"Garnothol." (For a Bactericide) .....	F. Dodsworth .....	6,693	Oct. 4	85	1
"Ger-American Herb Compound, the Great Blood Purifier, Liver and System Regulator." .....	C. F. Myers .....	6,594	June 7	83	1351
"Gloria Mundi." (For Cigars) .....	American Lithographic Company .....	6,685	Oct. 4	85	1
"Gloria Mundi, 'One Aim, One Goal.'" (For Cigars) .....	American Lithographic Company .....	6,683	Oct. 4	85	1
"Gold Lion Cocktails." (For Cocktails) .....	Cook & Bernheimer Company .....	6,758	Dec. 27	85	1909
"Golden Eagle." (For Cigars) .....	American Lithographic Company .....	6,718	Nov. 15	85	941
"Golden Rod." (For Syrup) .....	C. W. Shaw & Co .....	6,609	June 21	83	1665
"Golden Slipper." (For Rye Whisky) .....	H. H. Elliott .....	6,647	Aug. 23	84	1147
"Good Things to Eat." (For Cured Meats) .....	F. Wolferman .....	6,723	Nov. 22	85	1083
"Greatworth's Teas and Coffees." (For Teas and Coffees) .....	C. W. Snook .....	6,650	Aug. 30	84	1287



*Alphabetical list of labels—Continued.*

Title.	Name.	No.	Date.	Official Gazette.	
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"H. W. Johns Improved Asbestos Roofing." (For Asbestos Roofing and Roofing-Felts.)	H. W. Johns Manufacturing Company.	6,654	Aug. 30	84	1287
"Haas' Kremonia or Ammonia Cream." (For Cleansing Compounds.)	Zucker & Levett & Loebe Company.	6,651	Aug. 30	84	1287
"Haas' Kremonia or Ammonia Cream." (For Cleansing Compounds.)	Zucker & Levett & Loebe Company.	6,652	Aug. 30	84	1287
"Hadaah." (For Medicine)	W. P. F. Cabler.	6,618	June 28	83	1807
"Hall's Standard Refrigerators." (For Refrigerators)	A. D. Hall & Son	6,751	Dec. 20	85	1743
"Hamilton Medical Co's Remedies." (For Medicine)	Hamilton Medicine Company	6,637	Aug. 9	84	813
"Healene." (For an Ointment)	Holmes Drug Company	6,705	Oct. 25	85	459
"Herbarium System Bitters"	W. Rold	6,601	June 14	83	1517
"Hirsau Cloister-Drops." (For Medicine)	J. Schlenker	6,622	July 5	84	1
"Ho-Tea." (For Tea)	W. J. Buttfield	6,668	Sept. 13	84	1589
"Holland Flour"	Wolf, Sayer & Heller	6,610	June 21	83	1665
"Hollands." (For Coffee)	Holland Coffee Company	6,658	Sept. 6	84	1441
"Hoosier Whole Wheat Pancake Flour." (For Pancakes)	Hygienic Milling Company	6,644	Aug. 16	84	987
"Imperial Silver Polish"	A. and W. Green	6,611	June 21	83	1665
"International Automatic Copying Book"	J. O. Huchberger	6,625	July 19	84	315
"Invincible." (For Cigars on Cigar-Boxes)	N. H. Cohen	6,721	Nov. 15	85	941
"Jones' Break Up." (For a Remedy for Rheumatism and Neuralgia.)	W. C. Jones	6,737	Dec. 13	85	1587
"Koke." (For a Chemical Compound)	W. L. Bitting	6,752	Dec. 27	85	1909
"Kremonia Better than Ammonia." (For Cleaning Compounds.)	Zucker & Levett & Loebe Company	6,754	Dec. 27	85	1909
"Kursheedt's Escorial Shirring." (For Fancy Dry Goods)	Kursheedt Manufacturing Company.	6,614	June 28	83	1807
"La Tubarosa." (For Cigars)	American Lithographic Company.	6,736	Dec. 13	85	1587
"Laureda." (For Hair-Tonic)	L. E. Horton	6,561	Mar. 22	82	1693
"Lightning Polish." (For a Furniture-Polish)	J. Voytek	6,681	Sept. 27	84	1875
"Log Cabin Baking Powder"	W. S. Corbett.	6,603	June 14	83	1517
"Louvre." (For Cigars)	H. Plagemann & Co.	6,732	Dec. 6	85	1409
"Lucas' Dengue Medicine." (For Yellow Fever and La Grippe.)	G. B. Lucas	6,648	Aug. 23	84	1147
"Lucchesi's Cure for Rheumatism." (For Rheumatic Salve)	E. Lucchesi	6,674	Sept. 20	84	1733
"Lygia Hair Balsam"	S. Worms	6,581	May 3	83	599
"Malted Milk Biscuit." (For Biscuit)	Ward-Mackey Company	6,706	Nov. 1	85	615
"May Flower Mandolin." (For Mandolins)	H. J. Flower	6,711	Nov. 15	85	941
"Medicated French Tissue." (For a Preparation for Corns and the Like.)	Silver Suds Manufacturing Co	6,613	June 21	83	1665
"Mexican Pepper Pulp." (For Pepper-Pulp)	B. Trappey	6,740	Dec. 13	85	1587
"Milk of Wild Olives." (For a Lotion for the Skin)	L. E. Bishop and H. L. Halliday	6,585	May 10	83	749
"Milkene." (For a Substance to Combine with Milk)	Farm and Dairy Product Company	6,616	June 28	83	1807
"My Choice." (For Flour)	Meek, Finger & Co	6,688	Oct. 4	85	1
"Navy Belle." (For Cigars)	American Lithographic Company	6,646	Aug. 23	84	1147
"Nick's Health Elixir." (For Medicine)	M. E. Nick	6,749	Dec. 20	85	1743
"Nixey Nit." (For Cigar-Boxes)	American Lithographic Company	6,577	May 3	83	599
"Old Glory." (For Whisky)	A. B. Sheaffer	6,607	June 21	83	1665
"Old Homestead Brand." (For Plum-Pudding)	E. M. Clough	6,700	Oct. 18	85	293
"Old Whitehouse Whiskey." (For Whisky)	W. Perkins & Co	6,716	Nov. 15	85	941
"Olive Label." (For Olives)	C. W. Gould	6,589	May 17	83	927
"Orange Club." (For Bottled Whisky)	H. Decker	6,715	Nov. 15	85	941
"Oregon Brand." (For Canned Coods)	Oregon Packing Company	6,704	Oct. 25	85	459
"Our Calf Shoe"	Wallace & Vandersloot	6,615	June 28	83	1807
"Our Calla." (For Flour)	Meek, Finger & Co	6,690	Oct. 4	85	1
"Our Choice T, Good Luck and Swan Chop"	W. J. Buttfield	6,608	June 21	83	1665
"Our Crown." (For Cigars)	American Lithographic Company	6,687	Oct. 4	85	1
"Our Hero." (For Cigars)	American Lithographic Company	6,645	Aug. 23	84	1147
"Pathfinder." (For Cigars)	American Lithographic Company	6,757	Dec. 27	85	1909
"Peanut Butter." (For a Nut Food)	Atlantic Peanut Refinery	6,745	Dec. 20	85	1743
"Pearls of Health Tablets"	American Chemical Co	6,602	June 14	83	1517
"Pennant Chop." (For Tea)	Bohea Importing Company	6,575	Apr. 26	83	449
"Pepsin Cream Baking Powder"	Pepsin Cream Baking Powder Company.	6,582	May 10	83	749
"Phillips' Face Lotion." (For a Medicine for Skin Diseases)	R. D. Phillips	6,692	Oct. 4	85	1
"Physiological Earths." (For a Medicinal Compound)	Boericke & Tafel	6,713	Nov. 15	85	941
"Physiological Nerve and Tissue Food." (For a Medical Compound.)	Boericke & Tafel	6,677	Sept. 27	84	1875
"Physiological Phosphates." (For a Medicinal Compound)	Boericke & Tafel	6,712	Nov. 15	85	941
"Physiological Salts." (For a Medical Compound)	Boericke & Tafel	6,678	Sept. 27	84	1875
"Physiological Tonicum." (For a Medical Compound)	Boericke & Tafel	6,679	Sept. 27	84	1875
"Pickwick Paper." (For Toilet-Paper)	J. G. Cramer	6,640	Aug. 16	84	987
"Pillsbury's Improved Self-Raising Prepared Flour"	U. G. Pillsbury	6,573	Apr. 26	83	449
"Planta de Santiago." (For Cigars)	American Lithographic Company	6,720	Nov. 15	85	941
"Pony Claret." (For Claret-Wine)	J. A. Browder	6,744	Dec. 20	85	1743
"Poong's Ready Cure." (For a Medicine)	Chen Yum Poong	6,659	Sept. 6	84	1441
"Porto Rico Special." (For Beer)	J. Ottman Lithographing Company	6,672	Sept. 20	84	1733
"Pour La Nobless." (For Cigars)	American Lithographic Company	6,730	Dec. 6	85	1409
"Pour La Nobless." (For Cigars)	American Lithographic Company	6,731	Dec. 6	85	1409
"Preferred Stock." (For Canned Goods)	Oregon Packing Company	6,739	Dec. 13	85	1587
"Queen Jenny." (For Cigars)	American Lithographic Company	6,597	June 14	83	1517
"Ranney's Golden Gate Bitters"	H. S. Lincoln	6,583	May 10	83	749
"Raynor's Bug Meal"	G. A. Raynor	6,584	May 10	83	749
"Ready for Use Rat Cake." (For Rat-Poison)	F. C. Loomis	6,675	Sept. 20	84	1733
"Red Seal Laundry Soap." (For Soap)	P. C. Tomson & Co	6,666	Sept. 13	84	1589
"Regal Lager." (For Beer)	Long Island Brewery	6,599	June 14	83	1517
"Rose Leaf Balm." (For the Complexion)	J. A. Tucker	6,579	May 3	83	599
"Rosedale Brand." (For Canned Fruits, Vegetables, and Wines.)	Armstrong & Co	6,676	Sept. 27	84	1875
"Royal Cooline." (For a Powder)	J. J. Moran	6,750	Dec. 20	85	1743
"Royal Cream of Corn." (For Canned Hominy-Corn)	Circleville Canning Company	6,738	Dec. 13	85	1587
"Royal Crest." (For Tea)	Bohea Importing Company	6,574	Apr. 26	83	449
"Royal Purple." (For Tomatoes)	Circleville Canning Company	6,564	Mar. 29	82	1840
"Rule Columbia." (For Cigars)	American Lithographic Company	6,627	July 19	84	315
"Russian Navy." (For Serge)	A. and I. Saks	6,624	July 12	84	151
"S. F. Lash's Sure Ant Destroyer." (For an Insecticide)	S. F. L. Lash	6,725	Nov. 22	85	1083
"S-S' Dime or 10c Oats." (For Rolled Oats and Oatmeal)	S. G. Stein and F. P. Sawyer	6,728	Nov. 29	85	1227



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"S-S 5c." (For Rolled Oats and Oatmeal) .....	S. G. Stein and F. P. Sawyer .....	6,714	Nov. 15	85	941
"San Pablo Olives" .....	C. W. Gould .....	6,578	May 3	83	599
"Select Stock." (For Beer-Bottles) .....	H. R. Wirth .....	6,682	Sept. 27	84	1875
"Shield Chop." (For Tea) .....	W. J. Buttfield .....	6,669	Sept. 13	84	1589
"Snow Drops." (For Flour) .....	Meek, Finger & Co. ....	6,689	Oct. 4	85	1
"Social Session." (For Whisky) .....	Gottschalk Company .....	6,670	Sept. 13	84	1589
"Southern Comfort." (For a Beverage) .....	M. W. Heron .....	6,588	May 10	83	749
"Speckled Cracker Jack." (For Cigars) .....	Lee Broom and Duster Company ..	6,673	Sept. 20	84	1733
"Success is the Guarantee of Merit." (For Cigars) ..	American Lithographic Company ..	6,719	Nov. 15	85	941
"Supreme Chief Ranger." (For Cigars) .....	T. H. Freter .....	6,621	July 5	84	1
"The American Boy." (For Cigars) .....	Lutmer Cigar Co. ....	6,596	June 14	83	1517
"The Best Tonic Celebrated Swiss Herb Bitters" ..	C. Billeter .....	6,563	Mar. 29	82	1840
"The Dowager." (For Corsets) .....	Worcester Corset Company ..	6,698	Oct. 18	85	293
"The Enfield." (For Cigars) .....	American Lithographic Company ..	6,742	Dec. 20	85	1743
"The Game of Going to the Klondike." (For a Game) ..	McLoughlin Brothers .....	6,734	Dec. 13	85	1587
"The Game of Jack and the Bean Stalk" .....	McLoughlin Brothers .....	6,570	Apr. 19	83	301
"The Game of Kris Kringle's Visits" .....	McLoughlin Brothers .....	6,571	Apr. 19	83	301
"The Game of Playing Department Store." (For a Game) ..	McLoughlin Brothers .....	6,735	Dec. 13	85	1587
"The Game of the Ten Little Niggers." (For a Game) ..	McLoughlin Brothers .....	6,657	Sept. 6	84	1441
"The Game of the Little Volunteer." (For a Game) ..	McLoughlin Brothers .....	6,710	Nov. 15	85	941
"The Globe Match." (For Match Boxes or Cartons) ..	Globe Match Company .....	6,759	Dec. 27	85	1909
"The Globe Match." (For Match Boxes or Cartons) ..	Globe Match Company .....	6,760	Dec. 27	85	1909
"The Guild Hall." (For Cigars) .....	American Lithographic Company ..	6,741	Dec. 20	85	1743
"The Macmillan 'Pure Fruit and Sugar Jams.'" (For jams) ..	Joseph Campbell Preserve Com- pany. ....	6,707	Nov. 8	85	781
"The Merry Game of Old Maid." (For a Game) .....	McLoughlin Brothers .....	6,661	Sept. 13	84	1589
"The Morning Glory." (For Cigars) .....	M. Hirschhorn & Son .....	6,722	Nov. 15	85	941
"The Original Extract of Figs." (For Medicine) .....	W. H. Briggs .....	6,663	Sept. 13	84	1589
"The Rana Furniture Polish" .....	L. N. Wookey .....	6,580	May 3	83	599
"The Red White and Blue, or Dewey Puzzle." (For a Game) ..	A. L. Brincklé .....	6,709	Nov. 15	85	941
"The Reform Self Binder" .....	H. E. Veit .....	6,629	July 26	84	513
"The Silent." (For a Device for Making Flushing-Tanks Noiseless.) .....	C. H. Shepherd .....	6,593	May 31	83	1213
"The Troublesome Donkeys." (For a Game) .....	McLoughlin Brothers .....	6,733	Dec. 13	85	1587
"Uncle Sam's." (For Catsup) .....	Flaccus Bros .....	6,697	Oct. 11	85	153
"Uncle Sam's Maine Puzzle" .....	W. P. Berrien and A. H. Smith ..	6,638	Aug. 16	84	987
"Valkyrie Crimped Covers." (For Cover-Paper) .....	Martin & Wm. H. Nixon Paper Co. ..	6,569	Mar. 29	82	1840
"Velvetta Kid." (For Leather and Kid) .....	F. Crocker .....	6,592	May 24	83	1073
"Vena-Cura." (For Varicose Veins) .....	A. C. Buttolph .....	6,753	Dec. 27	85	1909
"Volunteer Flour." (For Flour) .....	Stoddard, Gilbert & Co. ....	6,729	Nov. 29	85	1227
"Vuelta-Abajo Flavor." (For a Tobacco-Flavor) .....	Livingston Laboratory .....	6,703	Oct. 25	85	459
"War Signals." (For Cigars) .....	American Lithographic Company ..	6,626	July 19	84	315
"White Rose Washing Fluid" .....	W. A. James .....	6,620	June 28	83	1807
"Yankee Drops, Manila Flavor." (For Cigars) .....	American Lithographic Company ..	6,649	Aug. 30	84	1287
"Yankee House Cleaner." (For Cleaning Compounds) ..	Chicago Wood Finishing Company ..	6,724	Nov. 22	85	1083
"Yankee Smoke." (For Cigars) .....	American Lithographic Company ..	6,717	Nov. 15	85	941
"Yellowstone Gems." (For Cigars) .....	M. Hyman Cigar and Importing Company. ....	6,595	June 14	83	1517



## PRINTS.

Title.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
"American-Cuban." (For Playing-Cards) .....	New York Consolidated Card Com- pany.	74	Aug. 16	84	987
"Army and Navy Puzzle." (For a Game) .....	S. L. Davis.	78	Sept. 20	84	1733
"Buffalo Lithia Water" .....	T. F. Goode.	66	May 24	83	1073
"Card Sayings." (For Playing-Cards) .....	New York Consolidated Card Com- pany.	86	Nov. 29	85	1227
"Chromatic Disk." (For Toys) .....	United States Printing Company ..	84	Nov. 1	85	615
"Color Bearer." (For Cigars) .....	American Lithographic Company ..	63	May 17	83	927
"Dewey's Chewies." (For Confections) .....	T. H. McInnerney .....	70	June 21	83	1665
"English Woolen Mills Company." (For Men's Wearing- Apparel, Suits, Overcoats, and the Like.) .....	E. S. Rogers .....	76	Aug. 30	84	1287
"Game of Robber Kittens." (For a Game) .....	McLoughlin Brothers .....	87	Nov. 29	85	1227
"Game of Ten Little Niggers." (For a Game) .....	McLoughlin Brothers .....	88	Nov. 29	85	1227
"Golden Jubilee." (For Beer) .....	Hudepohl & Kotte .....	61	May 3	83	599
"Gone to the Front." (For Plug-Tobacco) .....	Seiter & Kappes .....	73	Aug. 16	84	987
"Good Meal." (For Stoves and Ranges) .....	F. Tettenborn .....	62	May 3	83	599
"Hammond Type Writer for All Nations and Tongues" .....	Hammond Typewriter Company ..	67	May 24	83	1073
"How to Catch a Spaniard." (For Playing-Cards) .....	New York Consolidated Card Com- pany.	75	Aug. 23	84	1147
"Just Out." (For Cigars) .....	American Lithographic Company ..	64	May 24	83	1073
"Kentucky Taylor." (For Whisky) .....	Wright & Taylor .....	89	Nov. 29	85	1227
"Little Volunteer Game Card." (For a Game) .....	McLoughlin Brothers .....	91	Dec. 13	85	1587
"Mandleberg Waterproof." (For Clothing) .....	J. Mandleberg & Company .....	83	Oct. 25	85	459
"My Lady's Glove" .....	J. P. Knapp .....	69	June 7	83	1351
"Mystic Playing Cards." (For Playing-Cards) .....	United States Playing Card Com- pany.	77	Sept. 6	84	1441
"Proverb." (For Cigars) .....	American Lithographic Company ..	59	Mar. 22	82	1693
"Royal Scot." (For Cigars) .....	American Lithographic Company ..	68	May 31	83	1213
"Self Fastening Knobs for Pot Covers" .....	I. Finesilver .....	72	July 26	84	513
"Sister in Chief." (For Cigars) .....	American Lithographic Company ..	79	Oct. 4	85	1
"Standard Varnish Works." (For Varnishes) .....	Standard Varnish Works .....	90	Nov. 29	85	1227
"The Best Flag." "The Best Bird." "The Best Goods on Earth." (For Ranges and Heaters.) .....	Magee Furnace Company .....	92	Dec. 27	85	1909
"The Continental Gold Bond." (For a Suit of Clothes) .....	Freeland-Loomis Company .....	65	May 24	83	1073
"The Evil Eye." (For Envelops) .....	United States Printing Company ..	80	Oct. 25	85	459
"The Evil Eye." (For Letter-Heads) .....	United States Printing Company ..	81	Oct. 25	85	459
"The Fireside Game Company." (For Games) .....	Fireside Game Company .....	60	Mar. 29	82	1840
"The Nile Fortune Cards" .....	United States Playing Card Com- pany.	58	Mar. 8	82	1423
"Toy Soldiers." (For a Game) .....	McLoughlin Brothers .....	82	Oct. 25	85	459
"Waltham Watches are Carried All Over the World." (For Watches.) .....	American Waltham Watch Com- pany.	85	Nov. 22	85	1083
"Ziegler's Effervescent Soda Water Tablets" .....	George Ziegler Company .....	71	July 19	84	315

## DISCLAIMERS.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette.	
					Volume.	Page.
Button .....	Clark M. Platt .....	568,546	Sept. 29, 1896	June 6, 1898	83	1517
Electric metering apparatus .....	William S. Barstow .....	548,419	Oct. 22, 1895	Jan. 7, 1898	82	191
Gages for teeth of ice plows and markers .....	John N. Briggs .....	598,240	Feb. 1, 1898	Feb. 16, 1898	82	1061
Incandescent gas-lamp .....	Carl Auer von Welsback .....	509,530	Aug. 20, 1889	Mar. 1, 1898	82	1423
Method of mixing molten pig-metal .....	William R. Jones .....	404,414	June 4, 1889	Feb. 28, 1898	82	1423
Multiple switchboard for telephone-ex- change.	Leroy B. Firman .....	252,576	Jan. 17, 1882	Apr. 8, 1898	83	161
Sensitive photographic film .....	G. Eastman and W. H. Walker .....	358,848	Mar. 8, 1887	Apr. 6, 1898	83	161
Spring motors for phonographs .....	Frank L. Capps .....	570,378	Oct. 27, 1896	Feb. 1, 1898	82	755
Voting machine .....	Pascal H. Stedman .....	613,049	Oct. 25, 1898	Dec. 14, 1898	85	1743































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